

Нуклеозиды, нуклеотиды, нуклеиновые кислоты Технические характеристики

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Nucleosides, Nucleotides, Nucleic Acids and Related Reagents

Genetic information is stored in DNA as combinatorial codes held in nucleosides and nucleotides, in which form it is passed from parents to their offspring. Analogs of nucleosides and nucleotides are used clinically as medicinal agents such as reverse transcriptase inhibitors. Therefore, the preparation and development of these species as effective, selective and nontoxic antiviral and antitumor agents has been the subject of intense research.¹⁾

In addition to this, the development of Polymerase Chain Reaction (PCR) methodology has brought a dramatic change and rapid development in studies of DNA. At the current time the draft version in decoding and mapping human genome has been almost completed, and the functional analyses of genome and analyses of "Single Nucleotide Polymorphism" (SNP) are being vigorously pursued. Discovery of the RNAi process has facilitated the fast progression of studies of RNA. At the same time, chemically synthesized oligoDNA and oligoRNA have been studied as potential antisense DNAs, siRNAs and DNA aptamers, as oligonucleotide therapeutic agents, primers for PCR method, and elements of DNA computers.

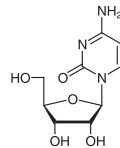
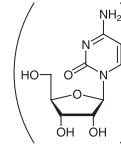
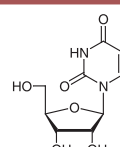
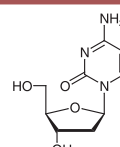
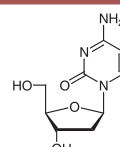
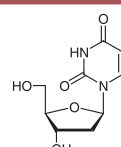
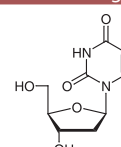
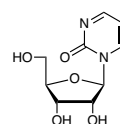
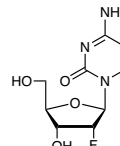
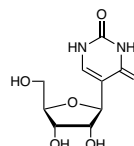
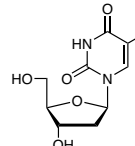
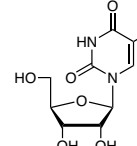
Nucleosides and Their Analogs

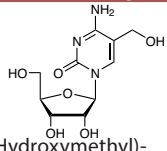
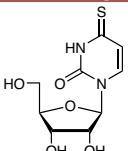
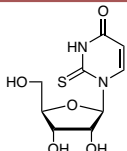
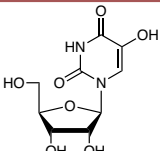
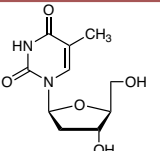
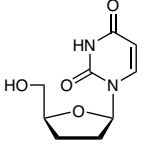
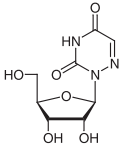
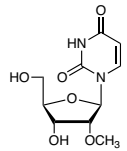
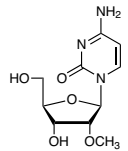
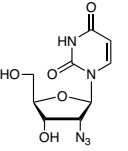
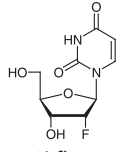
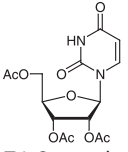
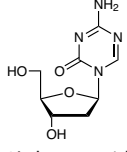
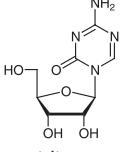
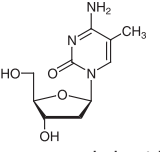
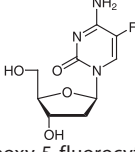
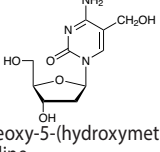
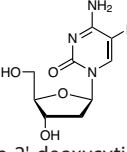
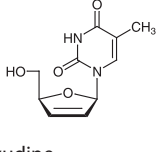
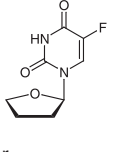
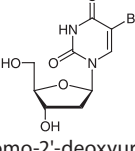
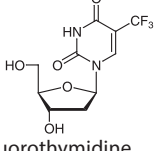
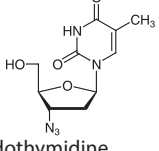
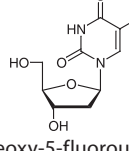
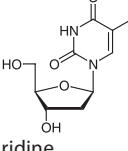
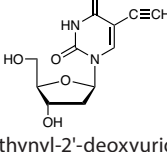
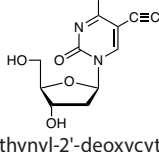
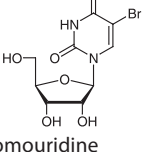
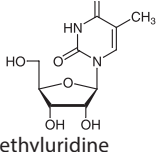
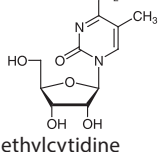
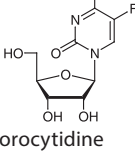
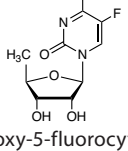
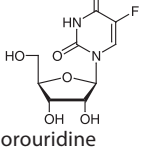
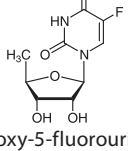
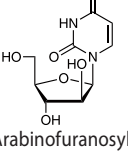
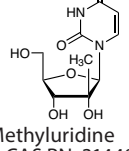
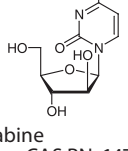
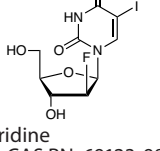
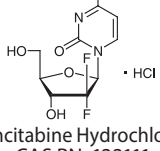
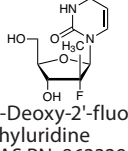
Nucleosides are glycosylamines made by attaching a nucleobase to a ribose or 2'-deoxyribose, which can be phosphorylated producing nucleotides. Nucleoside analogs are an established class of clinically useful medicinal agents possessing a wide range of antiviral and anticancer activities. Consequently, extensive modifications have been made to both the heterocyclic base and the sugar moiety. Some representative examples of these are 9-[(2-hydroxyethoxy)methyl]guanine (acyclovir) developed by Elion in 1977, which shows antiviral activity; 3'-azido-3'-deoxythymidine (AZT) discovered by Mitsuya *et al.* in 1985 and used for the treatment of HIV infection; and cytosine β-D-arabinofuranoside (cytarabine) approved by the FDA in 1969 and which has been shown to display a range anticancer activities. In addition, modified nucleosides such as 2'-deoxy-5-methylcytidine are ubiquitous in living systems, and their functions have received due attention from the scientific community.²⁾

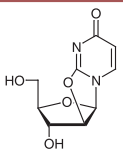
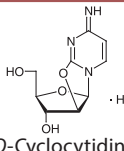
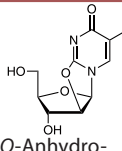
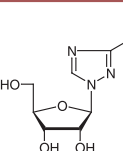
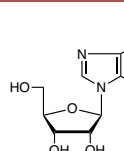
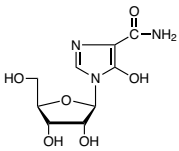
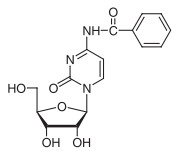
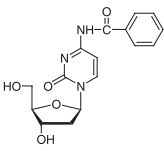
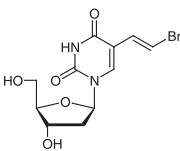
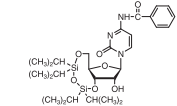
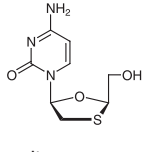
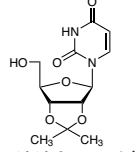
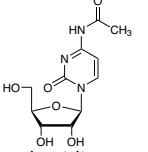
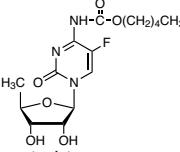
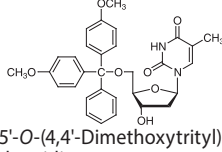
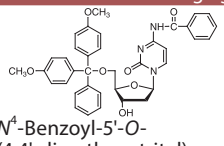
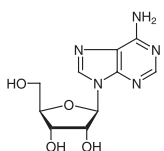
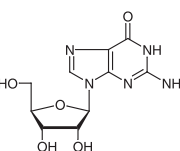
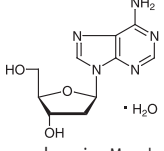
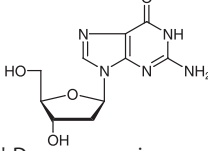
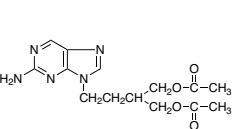
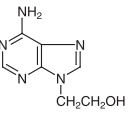
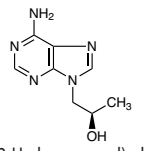
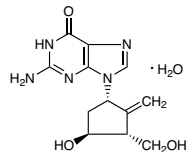
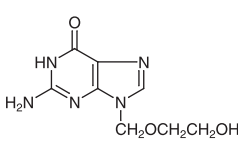
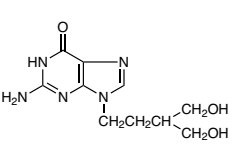
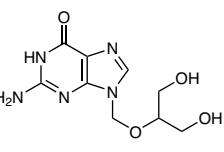
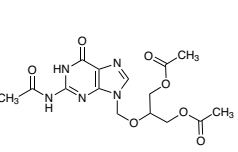
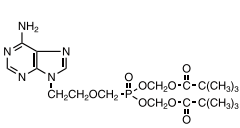
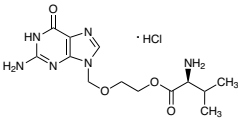
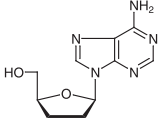
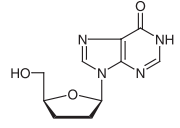
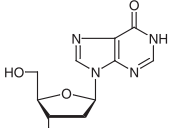
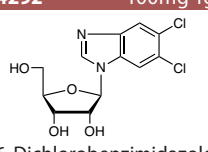
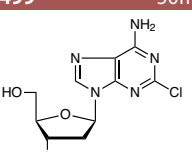
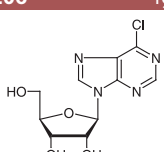
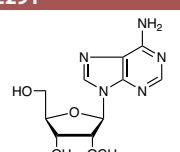
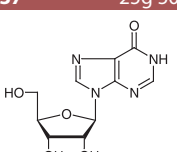
Protected nucleosides, in which reactive amino and hydroxyl groups have been masked, e.g. *N*⁶-benzoyl-5'-*O*-(4,4'-dimethoxytrityl)-2'-deoxyadenosine (Bz-DMT-dA), have been used for chemical synthesis of DNA and RNA.

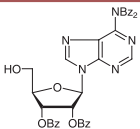
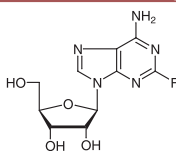
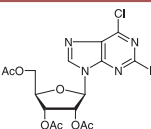
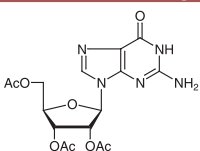
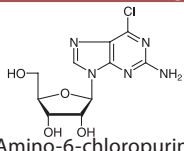
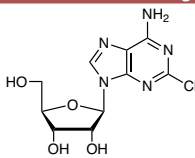
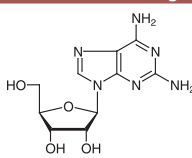
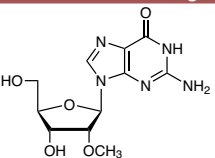
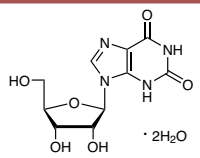
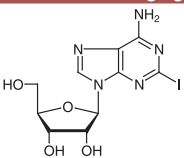
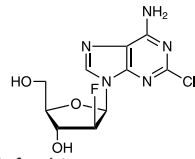
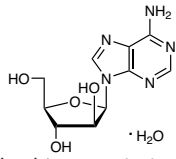
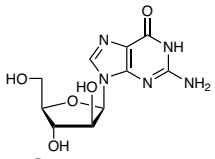
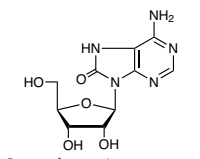
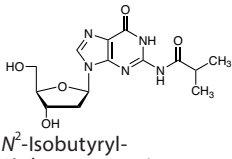
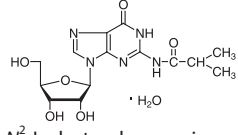
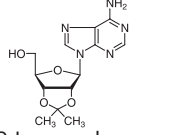
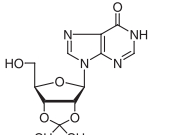
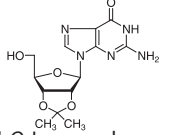
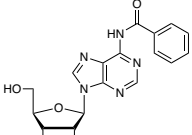
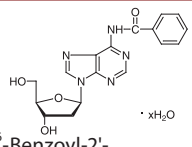
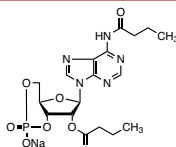
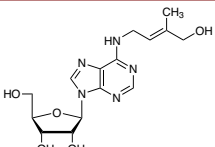
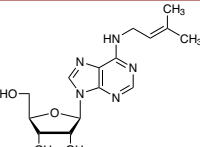
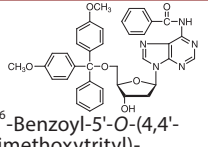
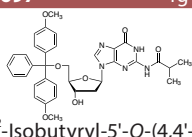
Nucleosides and Their Analogs

Pyrimidine Nucleosides

Nucleosides and Their Analogs		Pyrimidine Nucleosides		C0522 1g 5g 25g  Cytidine CAS RN: 65-46-3	C0525 100mg 1g  Cytidine Sulfate CAS RN: 32747-18-5
U0020 5g 25g  Uridine CAS RN: 58-96-8	D3583 1g 5g  2'-Deoxycytidine CAS RN: 951-77-9	D0048 5g 25g  2'-Deoxycytidine Hydrochloride CAS RN: 3992-42-5	T0233 1g 5g 25g  Thymidine CAS RN: 50-89-5	D0060 1g 5g 25g  2'-Deoxyuridine CAS RN: 951-78-0	
Z0022 200mg 1g  Zebularine CAS RN: 3690-10-6	D3614 1g  2'-Deoxy-2'-fluorocytidine CAS RN: 10212-20-1	P2396 50mg  Pseudouridine CAS RN: 1445-07-4	D6190 50mg 200mg  α-Hydroxythymidine CAS RN: 5116-24-5	H1866 50mg 200mg  5-(Hydroxymethyl)uridine CAS RN: 30414-00-7	

H1863 50mg 200mg  5-(Hydroxymethyl)-cytidine CAS RN: 19235-17-7	T4059 25mg 100mg  4-Thiouridine CAS RN: 13957-31-8	T4108 100mg  2-Thiouridine CAS RN: 20235-78-3	H1865 100mg  5-Hydroxyuridine CAS RN: 957-77-7	T4158 100mg  Telbivudine CAS RN: 3424-98-4
D6106 250mg  2',3'-Dideoxyuridine CAS RN: 5983-09-5	A0559 10mg  6-Azauridine CAS RN: 54-25-1	M2290 1g 5g  2'-O-Methyluridine CAS RN: 2140-76-3	M2317 200mg 1g  2'-O-Methylcytidine CAS RN: 2140-72-9	A2942 25mg 100mg  2'-Azido-2'-deoxyuridine CAS RN: 26929-65-7
D3615 1g 5g  2'-Deoxy-2'-fluorouridine CAS RN: 784-71-4	T2549 5g 25g  2',3',5'-Tri-O-acetyluridine CAS RN: 4105-38-8	A2232 20mg 100mg  5-Aza-2'-deoxycytidine CAS RN: 2353-33-5	A2033 100mg 1g  5-Azacytidine CAS RN: 320-67-2	D3610 100mg 500mg 5g  2'-Deoxy-5-methylcytidine CAS RN: 838-07-3
D3642 1g  2'-Deoxy-5-fluorocytidine CAS RN: 10356-76-0	D4220 50mg 200mg  2'-Deoxy-5-(hydroxymethyl)-cytidine CAS RN: 7226-77-9	I0882 1g  5-Iodo-2'-deoxycytidine CAS RN: 611-53-0	D3580 1g 5g  Stavudine CAS RN: 3056-17-5	F0635 5g 25g  Tegafur CAS RN: 17902-23-7
B1575 1g 5g  5-Bromo-2'-deoxyuridine CAS RN: 59-14-3	T2511 100mg 1g  Trifluorothymidine CAS RN: 70-00-8	A2052 1g 5g  Azidothymidine CAS RN: 30516-87-1	D2235 100mg 500mg 1g  2'-Deoxy-5-fluorouridine CAS RN: 50-91-9	I0258 1g 5g 25g  Idoxuridine CAS RN: 54-42-2
E1057 50mg 200mg  5-Ethynyl-2'-deoxyuridine CAS RN: 61135-33-9	E1093 200mg  5-Ethynyl-2'-deoxycytidine CAS RN: 69075-47-4	B0666 100mg 1g  5-Bromouridine CAS RN: 957-75-5	M1405 1g 5g 25g  5-Methyluridine CAS RN: 1463-10-1	M1931 1g  5-Methylcytidine CAS RN: 2140-61-6
F0534 1g  5-Fluorocytidine CAS RN: 2341-22-2	D4342 1g 5g  5'-Deoxy-5-fluorocytidine CAS RN: 66335-38-4	F0636 1g 5g  5-Fluorouridine CAS RN: 316-46-1	D3579 1g 5g  5'-Deoxy-5-fluorouridine CAS RN: 3094-09-5	A2356 1g 5g  1-β-D-Arabinofuranosyluracil CAS RN: 3083-77-0
M3153 250mg 1g  2'-C-Methyluridine CAS RN: 31448-54-1	C2035 1g 5g  Cytarabine CAS RN: 147-94-4	D4200 10mg  Fialuridine CAS RN: 69123-98-4	G0367 100mg 1g  Gemcitabine Hydrochloride CAS RN: 122111-03-9	D4823 200mg 1g  (2'R)-2'-Deoxy-2'-fluoro-2'-methyluridine CAS RN: 863329-66-2

C2208 5g 25g  2,2'-O-Cyclouridine CAS RN: 3736-77-4	C2207 1g 5g  2,2'-O-Cyclocytidine Hydrochloride CAS RN: 10212-25-6	A2431 1g  2,2'-O-Anhydro-5-methyluridine CAS RN: 22423-26-3	R0077 100mg 500mg  Ribavirin CAS RN: 36791-04-5	A2528 50mg  Acadesine CAS RN: 2627-69-2
M2399 50mg 250mg  Mizoribine CAS RN: 50924-49-7	B3094 1g 5g  N ⁴ -Benzoylcytidine CAS RN: 13089-48-0	B3102 100mg 1g  N ⁴ -Benzoyl-2'-deoxycytidine CAS RN: 4836-13-9	B3404 100mg  Brivudine CAS RN: 69304-47-8	B3631 1g 5g  N ⁴ -Benzoyl-3',5'-O-(1,1,3,3-tetraisopropyl-1,3-disiloxanediyl)cytidine CAS RN: 69304-43-4
L0217 100mg 1g  Lamivudine CAS RN: 134678-17-4	I0705 5g 25g  Uridine 2',3'-Acetonide CAS RN: 362-43-6	A3535 5g 25g  N ⁴ -Acetylcytidine CAS RN: 3768-18-1	C2878 1g 5g  Capecitabine CAS RN: 154361-50-9	D3566 5g 25g  5'-O-(4,4'-Dimethoxytrityl)-thymidine CAS RN: 40615-39-2
B3087 1g 5g  N ⁴ -Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxycytidine CAS RN: 67219-55-0	Purine Nucleosides		A0152 5g 25g 100g  Adenosine CAS RN: 58-61-7	G0171 5g 25g 100g  Guanosine CAS RN: 118-00-3
D0046 5g 25g  2'-Deoxyadenosine Monohydrate CAS RN: 16373-93-6	D0052 1g 5g 25g  2'-Deoxyguanosine CAS RN: 961-07-9	F0842 500mg  Famciclovir CAS RN: 104227-87-4	H1290 5g 25g  9-(2-Hydroxyethyl)adenine CAS RN: 707-99-3	H1291 1g 5g  (R)-9-(2-Hydroxypropyl)adenine CAS RN: 14047-28-0
E0899 50mg 200mg  Entecavir Monohydrate CAS RN: 209216-23-9	A1915 1g 5g 25g  Acyclovir CAS RN: 59277-89-3	P2164 200mg  Penciclovir CAS RN: 39809-25-1	G0315 5g 25g  Ganciclovir CAS RN: 82410-32-0	A3228 1g  Triacetylganciclovir CAS RN: 86357-14-4
A2414 100mg 1g  Adefovir Dipivoxil CAS RN: 142340-99-6	V0111 100mg 1g  Valacyclovir Hydrochloride CAS RN: 124832-27-5	D3065 100mg  2',3'-Dideoxyadenosine CAS RN: 4097-22-7	D3066 100mg 500mg  Didanosine CAS RN: 69655-05-6	D3584 1g 5g  2'-Deoxyinosine CAS RN: 890-38-0
D4292 100mg 1g  5,6-Dichlorobenzimidazole 1-β-D-Ribofuranoside CAS RN: 53-85-0	C2499 50mg  Cladribine CAS RN: 4291-63-8	C2206 1g 5g  6-Chloropurine Riboside CAS RN: 5399-87-1	M2291 1g  2'-O-Methyladenosine CAS RN: 2140-79-6	I0037 25g 500g  Inosine CAS RN: 58-63-9

B3460 100mg 1g  <i>N</i> ⁶ -Dibenzoyladenosine 2',3'-Dibenzoate CAS RN: 58463-04-0	F0656 200mg 1g  2-Fluoroadenosine CAS RN: 146-78-1	T2691 1g 5g  2',3',5'-Tri-O-acetyl-6-chloro-2-iodopurine Riboside CAS RN: 5987-76-8	T2692 1g 5g  2',3',5'-Tri-O-acetylguanosine CAS RN: 6979-94-8	A2054 1g 5g  2-Amino-6-chloropurine Riboside CAS RN: 2004-07-1
C2192 100mg 1g  2-Chloroadenosine CAS RN: 146-77-0	A2135 5g 25g  2-Aminoadenosine CAS RN: 2096-10-8	M2318 200mg 1g  2'-O-Methylguanosine CAS RN: 2140-71-8	X0008 100mg  Xanthosine Dihydrate CAS RN: 146-80-5	I0759 200mg 1g 5g  2-Iodoadenosine CAS RN: 35109-88-7
C2500 20mg 100mg  Clfarabine CAS RN: 123318-82-1	V0098 1g 5g  Vidarabine Monohydrate CAS RN: 24356-66-9	A2739 10mg 50mg  Ara-G CAS RN: 38819-10-2	O0401 200mg 1g  8-Oxoadenosine CAS RN: 29851-57-8	I0700 100mg 1g  <i>N</i> ² -Isobutyryl-2'-deoxyguanosine CAS RN: 68892-42-2
I0699 100mg 1g  <i>N</i> ² -Isobutyrylguanosine Monohydrate CAS RN: 64350-24-9	I0702 5g 25g  2',3'-O-Isopropylideneadenosine CAS RN: 362-75-4	I0704 5g  2',3'-O-Isopropylideneinosine CAS RN: 2140-11-6	I0703 5g  2',3'-O-Isopropylideneadenoguanosine CAS RN: 362-76-5	B3093 1g 5g  <i>N</i> ⁶ -Benzoyladenosine CAS RN: 4546-55-8
B3101 100mg  <i>N</i> ⁶ -Benzoyl-2'-deoxyadenosine Hydrate CAS RN: 206752-42-3	D4228 25mg  Dibutyryl cAMP Sodium Salt CAS RN: 16980-89-5	H1848 200mg  <i>trans</i> -Zeatin-ribose CAS RN: 6025-53-2	I1221 500mg  <i>N</i> ⁶ -Isopentenyladenosine CAS RN: 7724-76-7	B3103 100mg 1g  <i>N</i> ⁶ -Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxyadenosine CAS RN: 64325-78-6
I0697 1g 5g  <i>N</i> ² -Isobutyryl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxyguanosine CAS RN: 68892-41-1				

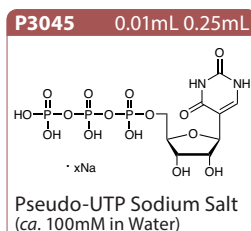
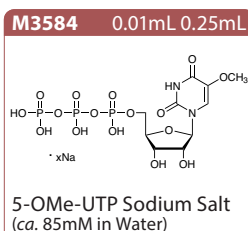
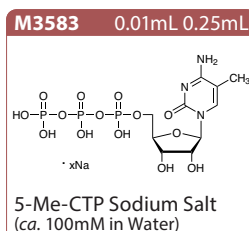
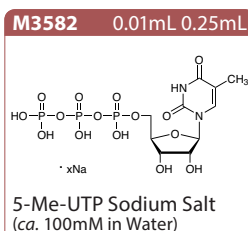
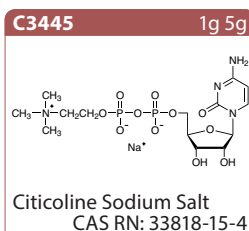
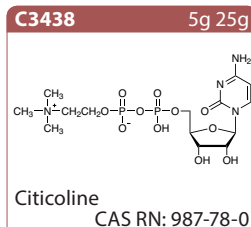
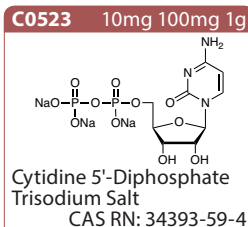
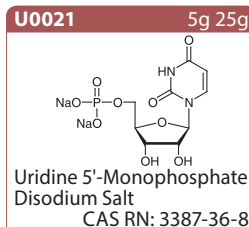
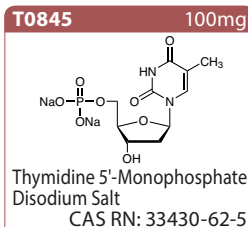
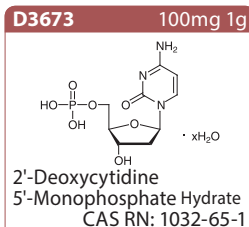
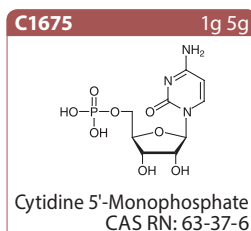
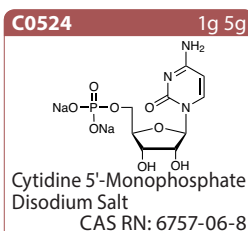
Nucleotides and Their Analogs

Nucleotides are formed from the condensation of nucleoside and a phosphate group. The nucleosides themselves are formed from a nucleobase (see below) and a sugar moiety

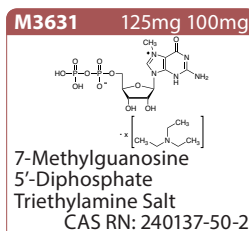
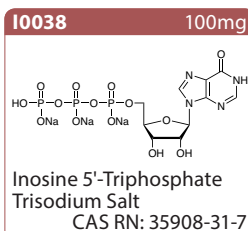
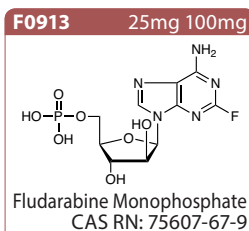
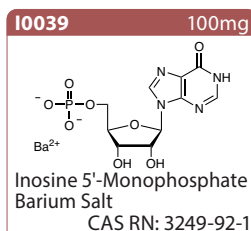
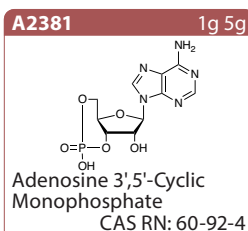
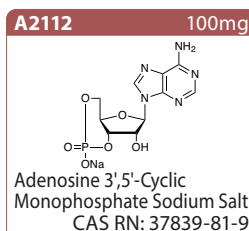
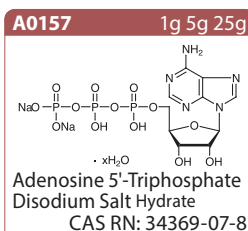
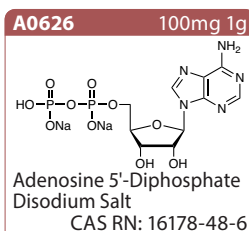
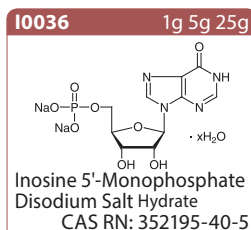
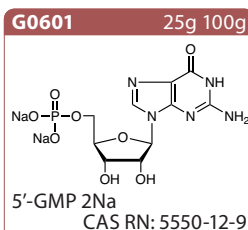
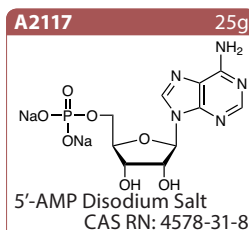
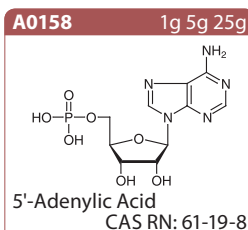
which is either ribose (RNA) or 2'-deoxyribose (DNA). Nucleotides are the minimum structural units of DNA and RNA, and serve as important cofactors in metabolism.

Nucleotides and Their Analogs

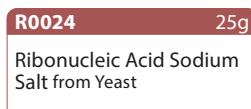
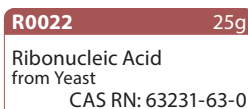
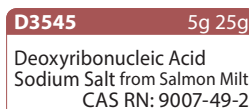
Pyrimidine Nucleotides



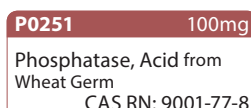
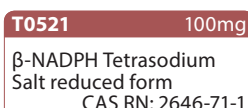
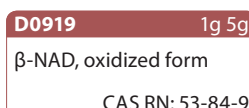
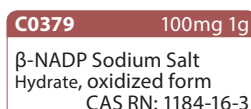
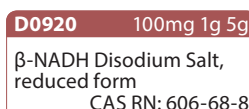
Purine Nucleotides



Nucleic Acids



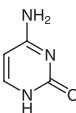
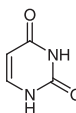
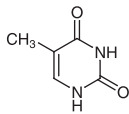
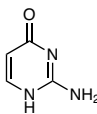
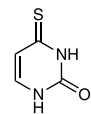
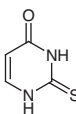
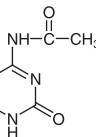
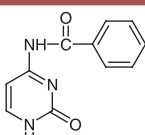
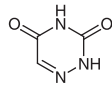
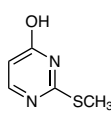
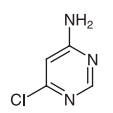
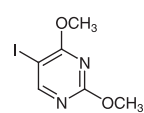
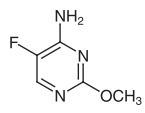
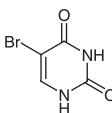
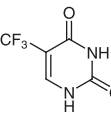
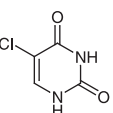
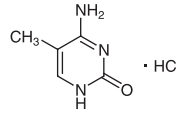
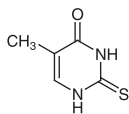
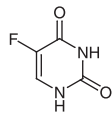
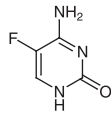
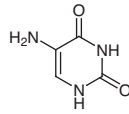
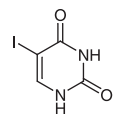
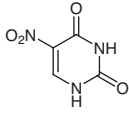
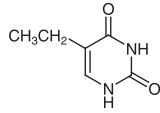
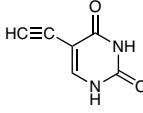
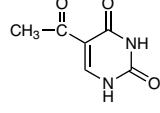
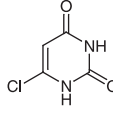
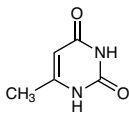
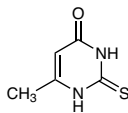
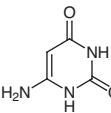
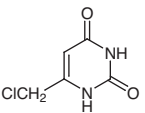
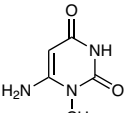
Enzymes and Coenzymes related to Nucleic Acids

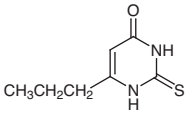
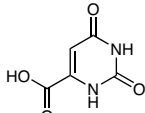
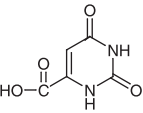
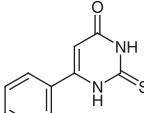
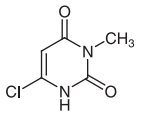
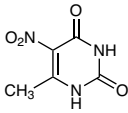
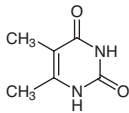
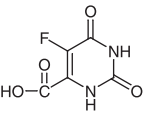
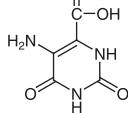
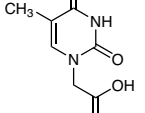
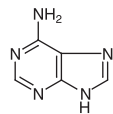
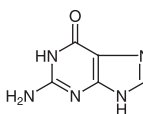
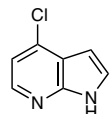
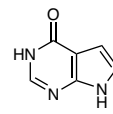
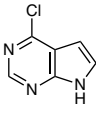
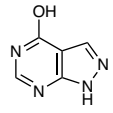
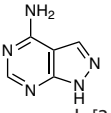
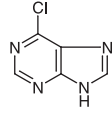
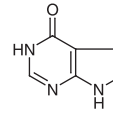
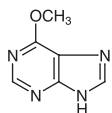
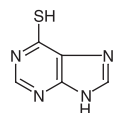
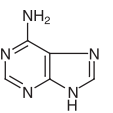
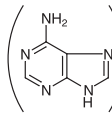
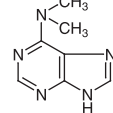
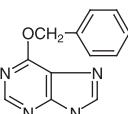
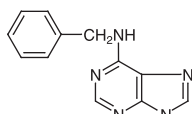
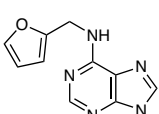
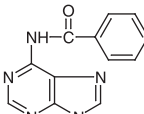
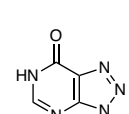
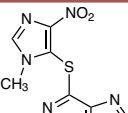
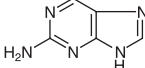
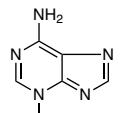
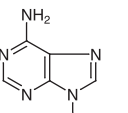
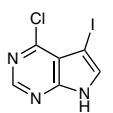
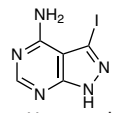
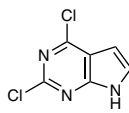
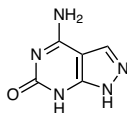
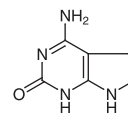
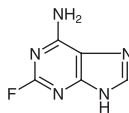


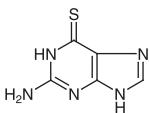
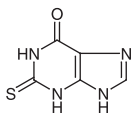
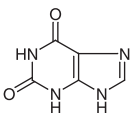
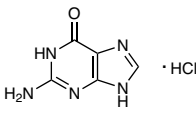
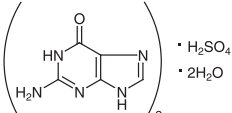
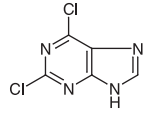
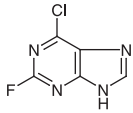
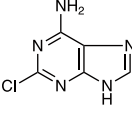
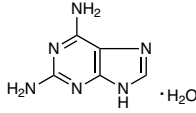
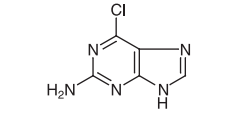
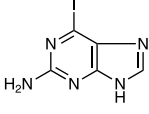
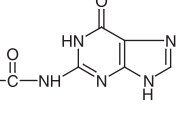
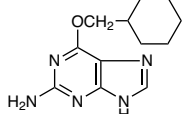
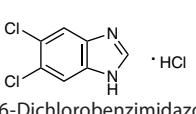
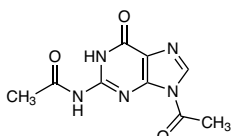
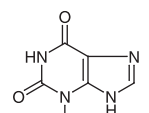
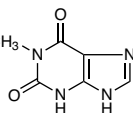
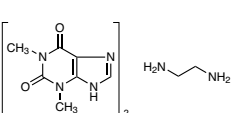
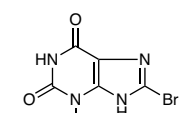
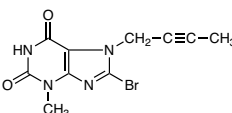
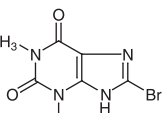
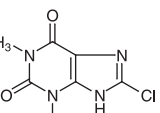
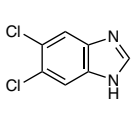
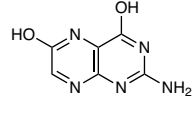
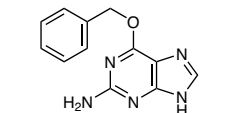
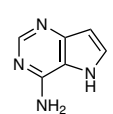
Nucleobases and Their Analogs

Nucleobases, usually simply called “bases”, are a vital sense component of DNA and RNA. The bases can be divided into two groups based on the structure: purines such as adenine and guanine; and pyrimidines such as cytosine, thymine and uracil. Other nucleobases can be created by the modification

of these basic structures. For example, hypoxanthine and xanthine are generated in living systems through deamination of adenine and guanine, respectively. Furthermore, nucleobase analogue 5-fluorouracil (5-FU) is used as an anticancer agent. Derivatives of 2-fluoroadenine have been widely reported as prodrug forms of anticancer agents.

Nucleobases and Their Analogs		Pyrimidine Nucleobases		C0528 5g 25g 100g	U0013 25g 100g 500g
				 Cytosine CAS RN: 71-30-7	 Uracil CAS RN: 66-22-8
T0234 5g 25g 100g	I0814 5g	T2757 1g	T0224 25g 250g	A2089 5g 25g	
 Thymine CAS RN: 65-71-4	 Isocytosine CAS RN: 108-53-2	 4-Thiouracil CAS RN: 591-28-6	 2-Thiouracil CAS RN: 141-90-2	 N ⁴ -Acetylcytosine CAS RN: 14631-20-0	
B3169 5g	A0558 1g 5g	M2355 1g 5g	A2136 1g 5g	I0531 1g 5g	
 N ⁴ -Benzoylcytosine CAS RN: 26661-13-2	 6-Azauracil CAS RN: 461-89-2	 2-Methylthio-4-pyrimidinol CAS RN: 5751-20-2	 4-Amino-6-chloropyrimidine CAS RN: 5305-59-9	 5-Iodo-2,4-dimethoxypyrimidine CAS RN: 52522-99-3	
A2125 5g	B0665 25g	T1622 1g 5g	C0969 5g 25g	M0204 100mg 1g 5g	
 4-Amino-5-fluoro-2-methoxypyrimidine CAS RN: 1993-63-1	 5-Bromouracil CAS RN: 51-20-7	 5-(Trifluoromethyl)uracil CAS RN: 54-20-6	 5-Chlorouracil CAS RN: 1820-81-1	 5-Methylcytosine Hydrochloride CAS RN: 58366-64-6	
M0994 10g 25g	F0151 5g 25g	F0321 1g 5g 25g	A0898 5g 25g	I0219 5g 25g	
 5-Methyl-2-thiouracil CAS RN: 636-26-0	 5-Fluorouracil CAS RN: 51-21-8	 5-Fluorocytosine CAS RN: 2022-85-7	 5-Aminouracil CAS RN: 932-52-5	 5-Iodouracil CAS RN: 696-07-1	
N0281 5g 25g	E0807 1g 5g	E1096 200mg 1g	A2670 1g 5g	C2093 5g 25g	
 5-Nitouracil CAS RN: 611-08-5	 5-Ethyluracil CAS RN: 4212-49-1	 5-Ethynyluracil CAS RN: 59989-18-3	 5-Acetyluracil CAS RN: 6214-65-9	 6-Chlorouracil CAS RN: 4270-27-3	
M0454 25g	M0443 25g 500g	A0658 25g 250g	C1057 5g 25g	A2449 5g	
 6-Methyluracil CAS RN: 626-48-2	 6-Methyl-2-thiouracil CAS RN: 56-04-2	 6-Aminouracil CAS RN: 873-83-6	 6-Chloromethyluracil CAS RN: 18592-13-7	 6-Amino-1-methyluracil CAS RN: 2434-53-9	

P0533 25g  6-Propyl-2-thiouracil CAS RN: 51-52-5	O0633 25g  Orotic Acid CAS RN: 65-86-1	O0065 25g 100g 500g  Orotic Acid Monohydrate CAS RN: 50887-69-9	P0236 1g 5g  6-Phenyl-2-thiouracil CAS RN: 36822-11-4	C2300 5g 25g  6-Chloro-3-methyluracil CAS RN: 4318-56-3
M2506 1g 5g  6-Methyl-5-nitrouracil CAS RN: 16632-21-6	D1136 1g 5g  5,6-Dimethyluracil CAS RN: 26305-13-5	F0382 100mg 1g  5-Fluoroorotic Acid Monohydrate CAS RN: 220141-70-8	A0947 25g  5-Aminoorotic Acid CAS RN: 7164-43-4	T4102 5g 25g  Thymine-1-acetic Acid CAS RN: 20924-05-4
Purine Nucleobases				
	A0149 25g 250g  Adenine CAS RN: 73-24-5	G0169 1g 25g 250g  Guanine CAS RN: 73-40-5	C2470 200mg 1g  4-Chloro-1H-pyrrolo[2,3-b]pyridine CAS RN: 55052-28-3	D4324 1g  7-Deazahypoxanthine CAS RN: 3680-71-5
C2306 1g 5g  6-Chloro-7-deazapurine CAS RN: 3680-69-1	A0907 25g  Allopurinol CAS RN: 315-30-0	A1041 100mg 1g 5g  4-Aminopyrazolo[3,4-d]pyrimidine CAS RN: 2380-63-4	C0278 5g 25g  6-Chloropurine CAS RN: 87-42-3	H0311 5g 25g  Hypoxanthine CAS RN: 68-94-0
M1925 1g 5g  6-Methoxypurine CAS RN: 1074-89-1	M0063 1g 5g  6-Mercaptopurine Monohydrate CAS RN: 6112-76-1	A0150 5g 25g  Adenine Hydrochloride Hemihydrate CAS RN: 6055-72-7	A0151 25g 100g  Adenine Sulfate Dihydrate CAS RN: 6509-19-9	D3894 1g 5g  6-(Dimethylamino)purine CAS RN: 938-55-6
B3355 5g 25g  6-Benzyloxypurine CAS RN: 57500-07-9	B1088 5g 25g  N ⁶ -Benzyladenine CAS RN: 1214-39-7	K0009 1g 5g  Kinetin CAS RN: 525-79-1	B3344 5g 25g  N ⁶ -Benzoyladenine CAS RN: 4005-49-6	A0555 1g  8-Azahypoxanthine CAS RN: 2683-90-1
A2069 5g 25g  Azathioprine CAS RN: 446-86-6	A1111 200mg 1g  2-Aminopurine CAS RN: 452-06-2	M2518 200mg 1g  3-Methyladenine CAS RN: 5142-23-4	H1290 5g 25g  9-(2-Hydroxyethyl)adenine CAS RN: 707-99-3	C3130 1g 5g  6-Chloro-7-iodo-7-deazapurine CAS RN: 123148-78-7
I0941 1g 5g  3-Iodo-1H-pyrazolo[3,4-d]pyrimidin-4-amine CAS RN: 151266-23-8	D4284 1g 5g  2,6-Dichloro-7-deazapurine CAS RN: 90213-66-4	A2699 100mg  AHPP CAS RN: 5472-41-3	I0370 100mg  Isoguanine CAS RN: 3373-53-3	F0647 200mg 1g  2-Fluoroadenine CAS RN: 700-49-2

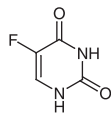
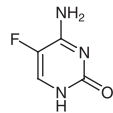
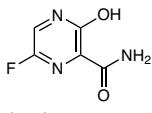
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D2470 1g 5g 25g  2,6-Dichloropurine CAS RN: 5451-40-1	C2221 1g  6-Chloro-2-fluoropurine CAS RN: 1651-29-2	C2575 1g 5g  2-Chloroadenine CAS RN: 1839-18-5	D1625 5g 25g  2,6-Diaminopurine Monohydrate CAS RN: 402846-48-4	A1407 1g 5g  2-Amino-6-chloropurine CAS RN: 10310-21-1
A2068 5g 25g  2-Amino-6-iodopurine CAS RN: 19690-23-4	A1248 1g 5g  2-Acetamido-6-hydroxypurine CAS RN: 19962-37-9	N0958 20mg 100mg  NU 2058 CAS RN: 161058-83-9	D4295 1g 5g  5,6-Dichlorobenzimidazole Hydrochloride CAS RN: 1087737-96-9	D3604 25g  N ² ,9-Diacetylguanine CAS RN: 3056-33-5
M2073 5g 25g  3-Methylxanthine CAS RN: 1076-22-8	M2432 50mg 200mg  1-Methylxanthine CAS RN: 6136-37-4	A2805 25g 100g  Aminophylline CAS RN: 317-34-0	B4134 1g  8-Bromo-3-methylxanthine CAS RN: 93703-24-3	B4454 200mg  8-Bromo-7-(2-butyn-1-yl)-3-methylxanthine CAS RN: 666816-98-4
B3456 1g 5g  8-Bromotheophylline CAS RN: 10381-75-6	C0293 25g 250g  8-Chlorotheophylline CAS RN: 85-18-7	D5146 1g 5g  5,6-Dichlorobenzimidazol CAS RN: 6478-73-5	X0007 1g  Xanthopterin CAS RN: 5979-01-1	B4208 5g 25g  O ⁶ -Benzylguanine CAS RN: 19916-73-5
P2930 250mg  9-Deazaadenine CAS RN: 2227-98-7				

Pharmacologically-Active Nucleosides and Nucleobases for Research and Experimental Use

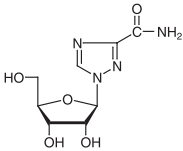
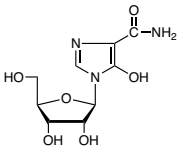
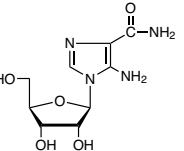
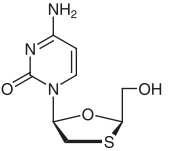
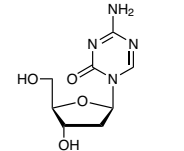
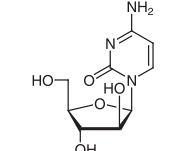
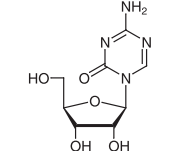
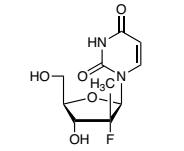
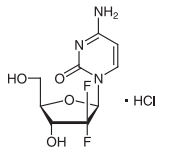
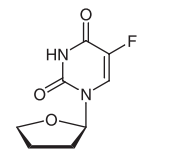
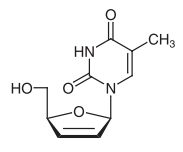
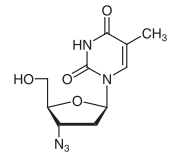
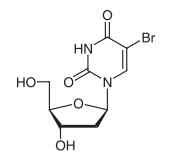
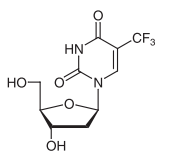
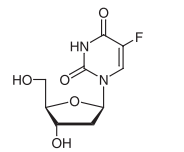
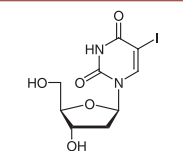
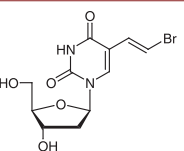
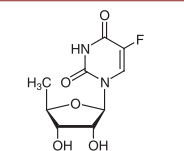
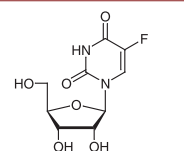
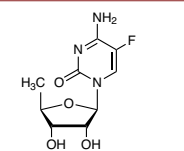
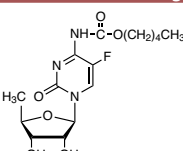
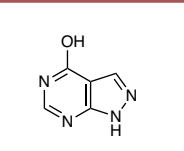
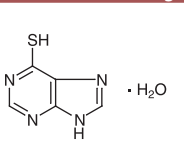
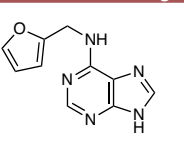
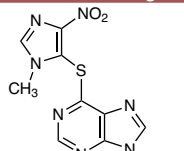
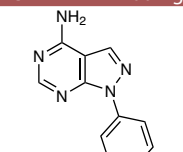
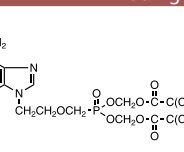
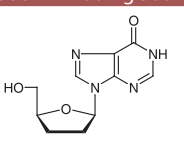
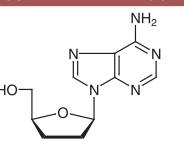
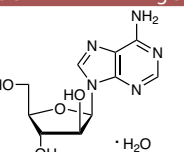
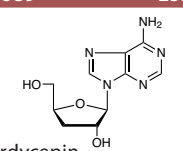
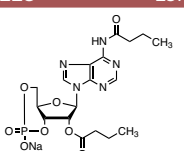
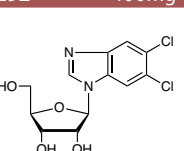
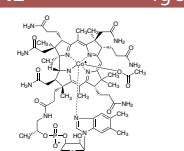
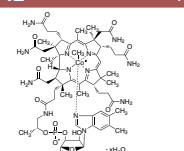
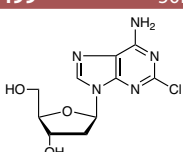
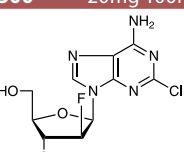
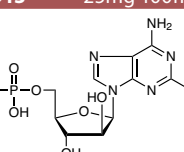
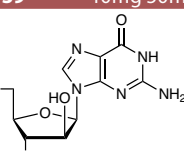
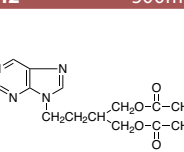
Typical nucleosides and nucleobases used in pharmacology

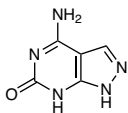
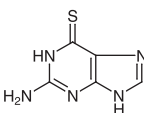
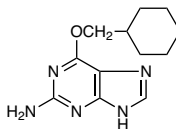
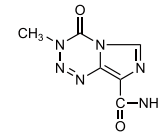
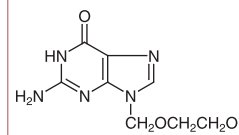
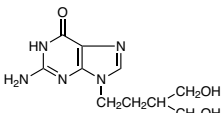
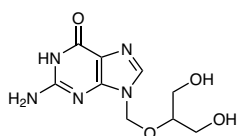
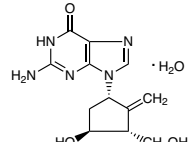
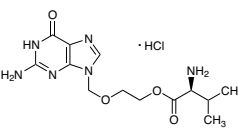
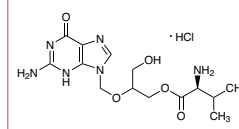
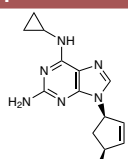
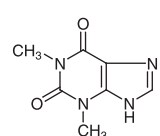
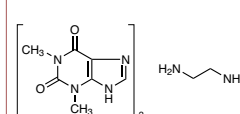
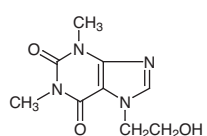
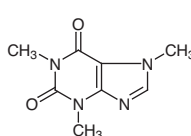
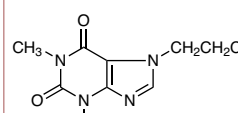
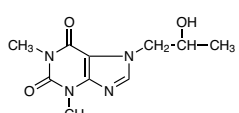
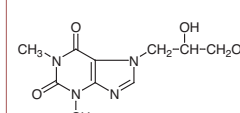
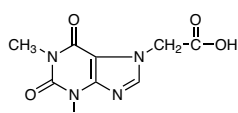
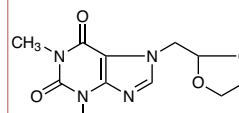
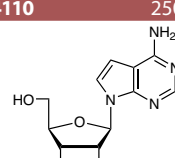
research are shown below, and serve as important cofactors in metabolism.

Pharmacologically-Active Nucleosides and Nucleobases for Research and Experimental Use

F0151 5g 25g  5-Fluorouracil CAS RN: 51-21-8	F0321 1g 5g 25g  5-Fluorocytosine CAS RN: 2022-85-7	F1296 25mg 100mg  Favipiravir CAS RN: 259793-96-9
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Nucleosides, Nucleotides, Nucleic Acids and Related Reagents

R0077 100mg 500mg  Ribavirin CAS RN: 36791-04-5	M2399 50mg 250mg  Mizoribine CAS RN: 50924-49-7	A2528 50mg  Acadesine CAS RN: 2627-69-2	L0217 100mg 1g  Lamivudine CAS RN: 134678-17-4	A2232 20mg 100mg  Decitabine CAS RN: 2353-33-5
C2035 1g 5g  Cytarabine CAS RN: 147-94-4	A2033 100mg 1g  5-Azacytidine CAS RN: 320-67-2	D4823 200mg 1g  PSI-6206 CAS RN: 863329-66-2	G0367 100mg 1g  Gemcitabine Hydrochloride CAS RN: 122111-03-9	F0635 5g 25g  Tegafur CAS RN: 17902-23-7
D3580 1g 5g  Stavudine CAS RN: 3056-17-5	A2052 1g 5g  Azidothymidine CAS RN: 30516-87-1	B1575 1g 5g  5-Bromo-2'-deoxyuridine CAS RN: 59-14-3	T2511 100mg 1g  Trifluorothymidine CAS RN: 70-00-8	D2235 100mg 500mg 1g  2'-Deoxy-5-fluorouridine CAS RN: 50-91-9
I0258 1g 5g 25g  Idoxuridine CAS RN: 54-42-2	B3404 100mg  Brivudine CAS RN: 69304-47-8	D3579 1g 5g  Doxifluridine CAS RN: 3094-09-5	F0636 1g 5g  5-Fluorouridine CAS RN: 316-46-1	D4342 1g 5g  5'-Deoxy-5-fluorocytidine CAS RN: 66335-38-4
C2878 1g 5g  Capecitabine CAS RN: 154361-50-9	A0907 25g  Allopurinol CAS RN: 315-30-0	M0063 1g 5g  6-Mercaptopurine Monohydrate CAS RN: 6112-76-1	K0009 1g 5g  Kinetin CAS RN: 525-79-1	A2069 5g 25g  Azathioprine CAS RN: 446-86-6
A2737 200mg 1g  PP 3 CAS RN: 5334-30-5	A2414 100mg 1g  Adefovir Dipivoxil CAS RN: 142340-99-6	D3066 100mg 500mg  Didanosine CAS RN: 69655-05-6	D3065 100mg  2',3'-Dideoxyadenosine CAS RN: 4097-22-7	V0098 1g 5g  Vidarabine Monohydrate CAS RN: 24356-66-9
C2689 25mg  Cordycepin from Cordyceps militaris CAS RN: 73-03-0	D4228 25mg  Dibutyl cAMP Sodium Salt CAS RN: 16980-89-5	D4292 100mg 1g  DRB CAS RN: 53-85-0	H1542 1g 5g  Hydroxocobalamin Acetate CAS RN: 22465-48-1	M2742 1g  Methylcobalamin Hydrate CAS RN: 288315-09-3
C2499 50mg  Cladribine CAS RN: 4291-63-8	C2500 20mg 100mg  Clofarabine CAS RN: 123318-82-1	F0913 25mg 100mg  Fludarabine Monophosphate CAS RN: 75607-67-9	A2739 10mg 50mg  Ara-G CAS RN: 38819-10-2	F0842 500mg  Famciclovir CAS RN: 104227-87-4

A2699 100mg  AHPH CAS RN: 5472-41-3	T0212 1g 5g  6-Thioguanine CAS RN: 154-42-7	N0958 20mg 100mg  NU 2058 CAS RN: 161058-83-9	T2744 500mg 5g  Temozolomide CAS RN: 85622-93-1	A1915 1g 5g 25g  Acyclovir CAS RN: 59277-89-3
P2164 200mg  Penciclovir CAS RN: 39809-25-1	G0315 5g 25g  Ganciclovir CAS RN: 82410-32-0	E0899 50mg 200mg  Entecavir Monohydrate CAS RN: 209216-23-9	V0111 100mg 1g  Valacyclovir Hydrochloride CAS RN: 124832-27-5	V0158 250mg 1g  Valganciclovir Hydrochloride CAS RN: 175865-59-5
A2694 1g 5g  Abacavir CAS RN: 136470-78-5	T0179 25g 100g 500g  Theophylline CAS RN: 58-55-9	A2805 25g 100g  Aminophylline CAS RN: 317-34-0	H0402 25g 500g  Etofylline CAS RN: 519-37-9	C2042 25g 500g  Caffeine CAS RN: 58-08-2
C2748 5g 25g  7-(2-Chloroethyl)theophylline CAS RN: 5878-61-5	H1430 5g 25g  Proxiphylline CAS RN: 603-00-9	D3600 25g  Diprophylline CAS RN: 479-18-5	T2941 25g  Theophylline-7-acetic Acid CAS RN: 652-37-9	D4302 1g 25g  Doxofylline CAS RN: 69975-86-6
T4110 250mg  Tubercidin CAS RN: 69-33-0				

Nucleic Acid Synthesis Agents

Silylation converts insoluble nucleobases into lipophilic trimethylsilylated derivatives, which are readily soluble in organic solvents, permitting homogenous chemical reactions. The trimethylsilylated nucleobases react with protected sugars to afford nucleosides. The procedure is commonly referred to as the Hilbert-Johnson reaction modified by Vorbrüggen *et al.*

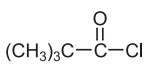
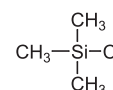
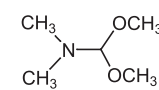
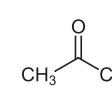
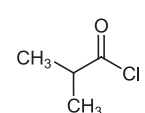
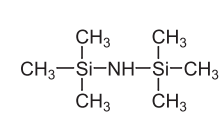
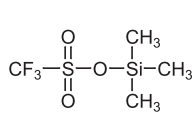
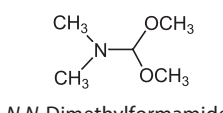
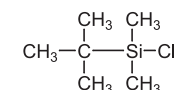
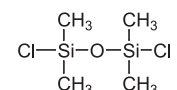
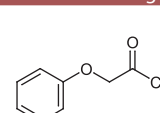
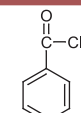
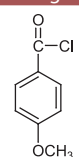
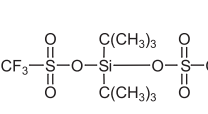
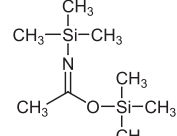
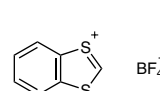
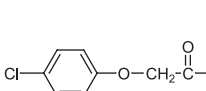
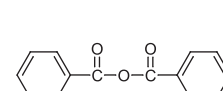
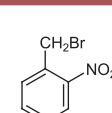
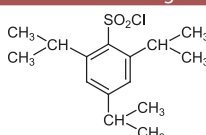
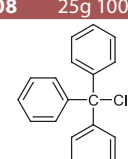
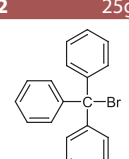
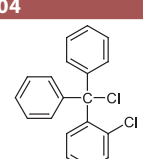
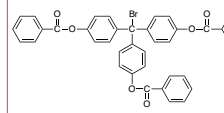
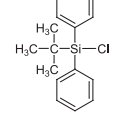
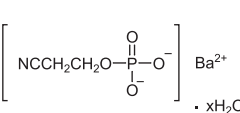
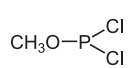
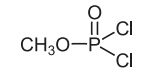
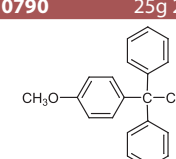
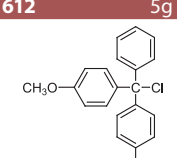
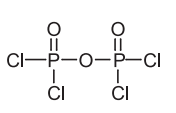
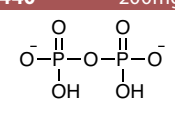
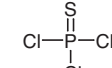
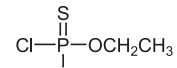
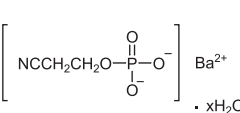
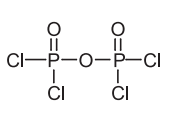
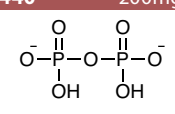
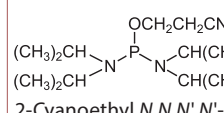
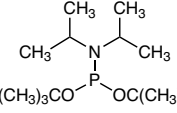
Phosphorylating and phosphorothioating agents, condensing agents and protecting agents for hydroxy and amino groups are of importance in the synthesis of DNA and RNA chains. Active research on chemical synthesis of DNA and RNA is being conducted, and a variety of synthetic methods using these agents are being developed.

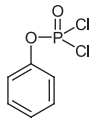
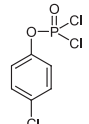
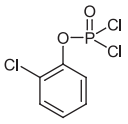
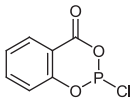
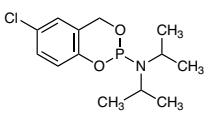
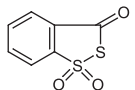
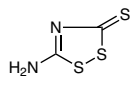
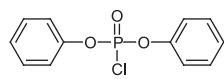
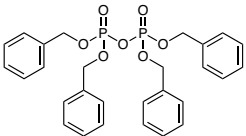
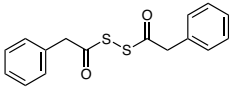
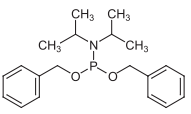
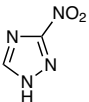
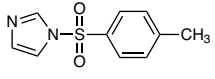
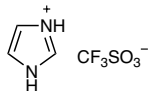
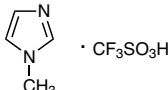
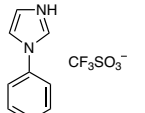
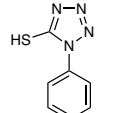
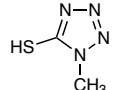
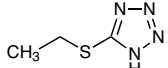
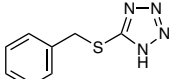
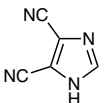
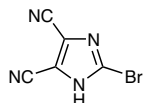
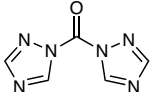
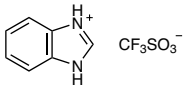
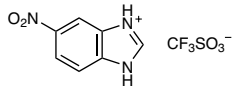
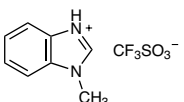
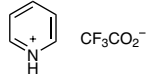
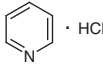
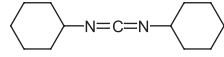
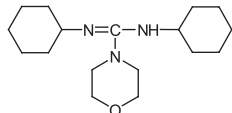
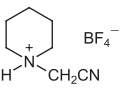
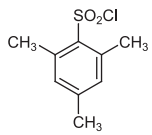
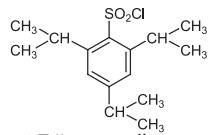
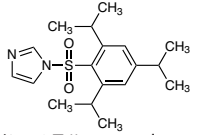
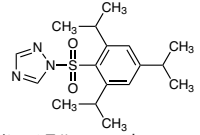
The dicyclohexylcarbodiimide (DCC) method exemplified by the Khorana group, the phosphotriester method and phosphitetriester method by the team of Letsinger and the phosphoramidite method by the Caruthers group are examples of the various synthetic methods. Recently, the phosphoramidite method has been used frequently in tandem with the penetration of DNA synthesizers, thus 2-cyanoethyl *N,N,N'*-tetraisopropylphosphordiamidite has been the reagent of frequent choice for the phosphitylation due to its ease in handling and safety.³⁾ 1,2,4-Triazole and 1*H*-tetrazole are also used for chemical conversion of uridines into cytidines.

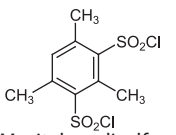
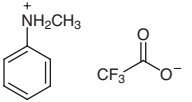
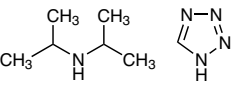
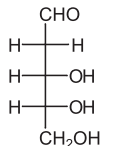
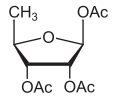
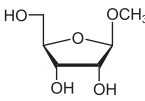
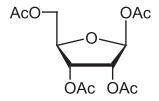
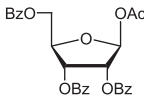
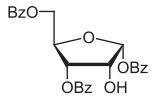
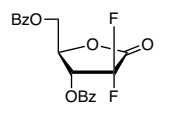
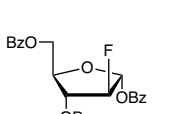
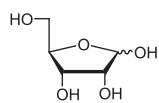
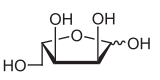
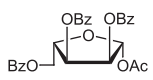
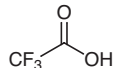
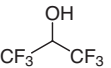
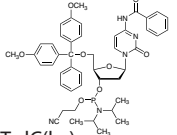
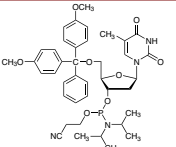
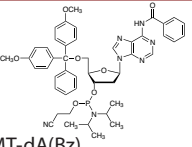
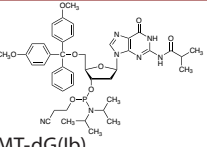
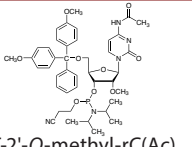
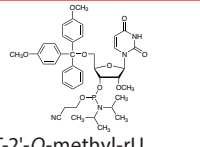
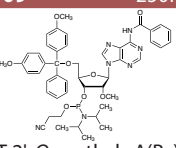
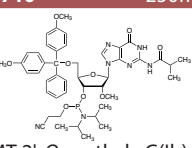
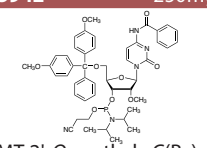
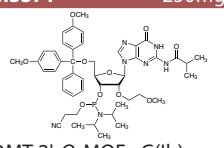
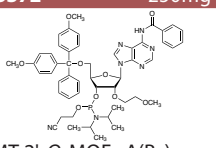
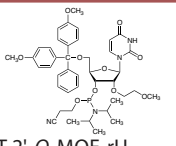
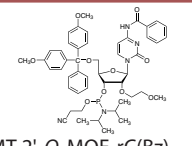
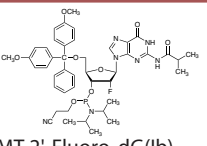
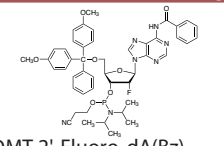
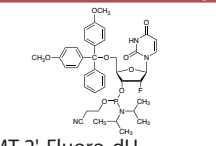
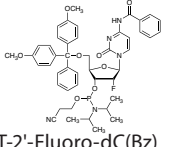
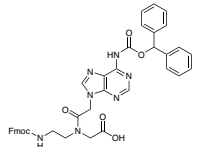
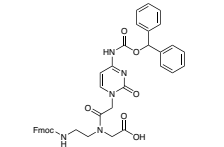
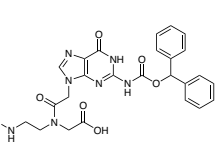
Chemically synthesized DNA is becoming important as a primer for the PCR method, an antisense molecule, or an element of the DNA computer.

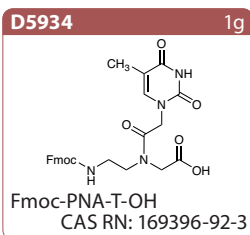
Nucleic Acid Synthesis Agents

Protecting Agents for Hydroxy and Amino Groups

P0677 25mL 500mL  Pivaloyl Chloride CAS RN: 3282-30-2	C0306 25mL 100mL 500mL  Chlorotrimethylsilane CAS RN: 75-77-4	D1293 25mL 100mL 500mL  N,N-Dimethylformamide Dimethyl Acetal CAS RN: 4637-24-5	A0082 100g 500g  Acetyl Chloride CAS RN: 75-36-5	I0115 25g 100g 500g  Isobutyryl Chloride CAS RN: 79-30-1
H0089 25mL 100mL 500mL  HMDS CAS RN: 999-97-3	T0871 5g 25g 250g  Trimethylsilyl Trifluoromethanesulfonate CAS RN: 27607-77-8	D1608 5g 25g  1,3-Dichloro-1,1,3,3-tetraisopropylidisiloxane CAS RN: 69304-37-6	B0995 5g 25g 100g  TBSCl CAS RN: 18162-48-6	D2334 5g 25g  1,3-Dichloro-1,1,3,3-tetramethyldisiloxane CAS RN: 2401-73-2
P0113 25g 500g  Phenoxyacetyl Chloride CAS RN: 701-99-5	B0105 25mL 500mL  Benzoyl Chloride CAS RN: 98-88-4	M0721 25g 100g 500g  4-Methoxybenzoyl Chloride CAS RN: 100-07-2	D3135 1g 5g  Di-tert-butylsilyl Bis(trifluoromethanesulfonate) CAS RN: 85272-31-7	B0511 10mL 100mL  BSA CAS RN: 10416-59-8
B1151 5g  1,3-Benzodithiolium Tetrafluoroborate CAS RN: 57842-27-0	C0832 25g 100g 500g  4-Chlorophenoxyacetyl Chloride CAS RN: 4122-68-3	B0078 25g 100g 500g  Benzoic Anhydride CAS RN: 93-97-0	N0404 5g 25g  2-Nitrobenzyl Bromide CAS RN: 3958-60-9	T0459 25g 500g  2,4,6-Triisopropylbenzenesulfonyl Chloride CAS RN: 6553-96-4
C0308 25g 100g 500g  Trityl Chloride CAS RN: 76-83-5	T0512 25g 100g  Trityl Bromide CAS RN: 596-43-0	D2504 25g  2-Chlorotrityl Chloride CAS RN: 42074-68-0	T1071 5g 25g  4,4',4''-Tris(benzoyloxy)-trityl Bromide CAS RN: 86610-66-4	B1223 5mL 25mL 100mL  tert-Butyldiphenylchlorosilane CAS RN: 58479-61-1
C0978 5g 25g  Barium 2-Cyanoethylphosphate Hydrate CAS RN: 207121-42-4	M0905 10g  Methyl Dichlorophosphite CAS RN: 3279-26-3	M0904 5g 25g 100g  Methyl Phosphorodichloridate CAS RN: 677-24-7	M0790 25g 250g  4-Methoxytrityl Chloride CAS RN: 14470-28-1	D1612 5g 25g  4,4'-Dimethoxytrityl Chloride CAS RN: 40615-36-9
Phosphorylating and Phosphorothioating Agents	D2883 25g  Diphosphoryl Chloride CAS RN: 13498-14-1	B5440 200mg 1g  Bis(tetrabutylammonium) Dihydrogen Pyrophosphate CAS RN: 857447-79-1	T1895 25g  Thiophosphoryl Chloride CAS RN: 3982-91-0	D0624 25g 500g  Diethyl Chlorothiofosphate CAS RN: 2524-04-1
C0978 5g 25g  Barium 2-Cyanoethylphosphate Hydrate CAS RN: 207121-42-4	D2883 25g  Diphosphoryl Chloride CAS RN: 13498-14-1	B5440 200mg 1g  Bis(tetrabutylammonium) Dihydrogen Pyrophosphate CAS RN: 857447-79-1	C2228 1g 5g  2-Cyanoethyl N,N,N',N'-Tetraisopropylphosphordiamidite CAS RN: 102691-36-1	D4211 1g 5g  Di-tert-butyl N,N-Diisopropylphosphoramidite CAS RN: 137348-86-8

C1215 5g 25g  2-Chloro-1,3,2-dioxaphospholane CAS RN: 822-39-9	C1250 5g 25g  2-Chloro-2-oxo-1,3,2-dioxaphospholane CAS RN: 6609-64-9	P0209 25g 500g  Phenyl Dichlorophosphate CAS RN: 770-12-7	C0977 5g 25g  4-Chlorophenyl Phosphorodichloridate CAS RN: 772-79-2	C0976 5g  2-Chlorophenyl Phosphorodichloridate CAS RN: 15074-54-1
C1210 5g 25g  2-Chloro-4H-1,3,2-benzodioxaphosphorin-4-one CAS RN: 5381-99-7	C3326 200mg 1g  5-Chlorosaligenyl-N,N-diisopropylphosphoramidite CAS RN: 1620086-77-2	B3125 1g 5g  Beaucage Reagent CAS RN: 66304-01-6	X0001 25g 100g 500g  Xanthane Hydride CAS RN: 6846-35-1	D1059 25g 100g 500g  Diphenyl Chlorophosphate CAS RN: 2524-64-3
P1223 1g  Tetrabenzyl Pyrophosphate CAS RN: 990-91-0	B3623 5g 25g  Bis(phenylacetyl) Disulfide CAS RN: 15088-78-5	D2624 5g  Dibenzyl N,N-Diisopropylphosphoramidite CAS RN: 108549-23-1	Condensing Agents	
T0340 25g 100g 500g  1,2,4-Triazole CAS RN: 288-88-0	N0477 1g 5g  3-Nitro-1,2,4-triazole CAS RN: 24807-55-4	T1985 5g 25g  1-(p-Toluenesulfonyl)-imidazole CAS RN: 2232-08-8	I1157 1g 10g  Imidazolium Triflate CAS RN: 29727-06-8	M3214 5g 25g  1-Methylimidazole Triflate CAS RN: 99257-94-0
P2822 5g 25g  1-Phenyl-1H-imidazol-3-ium Triflate CAS RN: 361447-81-6	P0640 25g 100g 500g  5-Mercapto-1-phenyl-1H-tetrazole CAS RN: 86-93-1	M1081 25g 500g  5-Mercapto-1-methyltetrazole CAS RN: 13183-79-4	E0670 1g 5g  5-(Ethylthio)-1H-tetrazole CAS RN: 89797-68-2	B3020 25g  5-(Benzylthio)-1H-tetrazole CAS RN: 21871-47-6
D2026 25g 250g  4,5-Dicyanoimidazole CAS RN: 1122-28-7	B6329 1g 5g  2-Bromo-4,5-dicyanoimidazole CAS RN: 50847-09-1	C2325 5g 25g  1,1'-Carbonyldi(1,2,4-triazole) CAS RN: 41864-22-6	B6330 1g 10g  Benzimidazolium Triflate CAS RN: 99257-95-1	N1214 1g 10g  5-Nitrobenzimidazolium Triflate CAS RN: 574704-91-9
M3384 5g 25g  N-Methyl benzimidazolium Triflate CAS RN: 361447-89-4	P2920 5g 25g  Pyridinium Trifluoroacetate CAS RN: 464-05-1	P1637 25g 100g 500g  Pyridine Hydrochloride CAS RN: 628-13-7	D0436 25g 400g  DCC CAS RN: 538-75-0	D3792 5g 25g  N,N'-Dicyclohexyl-4-morpholinecarboxamide CAS RN: 4975-73-9
C2421 5g  1-(Cyanomethyl)-piperidinium Tetrafluoroborate CAS RN: 434937-12-9	M0071 25g 100g  2-Mesitylenesulfonyl Chloride CAS RN: 773-64-8	T0459 25g 500g  2,4,6-Triisopropylbenzene-sulfonyl Chloride CAS RN: 6553-96-4	T1410 5g 25g  1-(2,4,6-Triisopropylbenzenesulfonyl)imidazole CAS RN: 50257-40-4	T2951 1g 5g  1-(2,4,6-Triisopropylbenzenesulfonyl)-1,2,4-triazole CAS RN: 54230-60-3

M1186 5g 25g  2,4-Mesitylenedisulfonyl Dichloride CAS RN: 68985-08-0	M0801 25g  N-MATFA CAS RN: 29885-95-8	D6204 5g  Diisopropylammonium Tetrazol-1-ide CAS RN: 93183-36-9	Riboses and 2'-Deoxyriboses	D0059 5g 25g  2-Deoxy-D-ribose CAS RN: 533-67-5
T2607 5g 25g  1,2,3-Tri-O-acetyl-5-deoxy-beta-D-ribofuranose CAS RN: 62211-93-2	M1965 1g 5g  Methyl beta-D-Ribofuranoside CAS RN: 7473-45-2	R0066 5g 25g  Tetra-O-acetyl-beta-D-ribofuranose CAS RN: 13035-61-5	R0067 5g 25g  beta-D-Ribofuranose 1-Acetate 2,3,5-Tribenzoate CAS RN: 6974-32-9	T2641 5g 25g  1,3,5-Tri-O-benzoyl-alpha-D-ribofuranose CAS RN: 22224-41-5
D4207 1g 5g  2-Deoxy-2,2-difluoro-D-erythro-pentonic Acid gamma-Lactone 3,5-Dibenzoate CAS RN: 122111-01-7	D4594 1g 5g  2-Deoxy-2-fluoro-1,3,5-tri-O-benzoyl-alpha-D-arabinofuranose CAS RN: 97614-43-2	R0025 25g 250g  D-(-)-Ribose CAS RN: 50-69-1	R0068 1g 5g 25g  L-Ribose CAS RN: 24259-59-4	R0080 1g  beta-L-Ribofuranose 1-Acetate 2,3,5-Tribenzoate CAS RN: 3080-30-6
Deprotection Reagents	T0431 25g 100g 500g  Trifluoroacetic Acid CAS RN: 76-05-1	H0424 25g 100g 500g  HFIP CAS RN: 920-66-1	Nucleoside Phosphoramidites	D5701 1g  DMT-dC(bz) Phosphoramidite CAS RN: 102212-98-6
D5702 1g  DMT-dT Phosphoramidite CAS RN: 98796-51-1	D5707 1g  DMT-dA(Bz) Phosphoramidite CAS RN: 98796-53-3	D5708 1g  DMT-dG(Ib) Phosphoramidite CAS RN: 93183-15-4	D5703 250mg  DMT-2'-O-methyl-rC(Ac) Phosphoramidite CAS RN: 199593-09-4	D5704 250mg  DMT-2'-O-methyl-rU Phosphoramidite CAS RN: 110764-79-9
D5709 250mg  DMT-2'-O-methyl-rA(Bz) Phosphoramidite CAS RN: 110782-31-5	D5710 250mg  DMT-2'-O-methyl-rG(Ib) Phosphoramidite CAS RN: 150780-67-9	D5942 250mg  DMT-2'-O-methyl-rC(Bz) Phosphoramidite CAS RN: 110764-78-8	M3371 250mg  DMT-2'-O-MOE-rG(Ib) Phosphoramidite CAS RN: 251647-55-9	M3372 250mg  DMT-2'-O-MOE-rA(Bz) Phosphoramidite CAS RN: 251647-53-7
M3373 250mg  DMT-2'-O-MOE-rU Phosphoramidite CAS RN: 163759-97-5	M3374 250mg  DMT-2'-O-MOE-rC(Bz) Phosphoramidite CAS RN: 251647-54-8	D5939 250mg  DMT-2'-Fluoro-dG(Ib) Phosphoramidite CAS RN: 144089-97-4	D5940 250mg  DMT-2'-Fluoro-dA(Bz) Phosphoramidite CAS RN: 136834-22-5	D5941 250mg  DMT-2'-Fluoro-dU Phosphoramidite CAS RN: 146954-75-8
D5943 250mg  DMT-2'-Fluoro-dC(Bz) Phosphoramidite CAS RN: 161442-19-9	Peptide Nucleic Acid (PNA) Monomers	D5931 1g  Fmoc-PNA-A(Bhoc)-OH CAS RN: 186046-82-2	D5932 1g  Fmoc-PNA-C(Bhoc)-OH CAS RN: 186046-81-1	D5933 1g  Fmoc-PNA-G(Bhoc)-OH CAS RN: 186046-83-3



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