

Клик-химия

Технические характеристики

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Барнаул (3852)73-04-60
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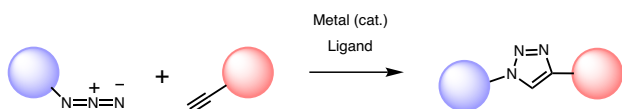
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Click Chemistry

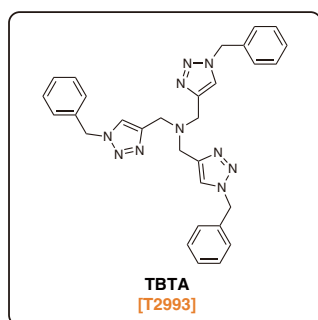
"Click Chemistry" is a term which was first described by K. B. Sharpless in 2001 to describe reactions that afford products in high yields and in excellent selectivities by carbon-hetero bond formation reactions. The term "Click" means joining molecular pieces as easily as clicking together the two pieces of a seat belt buckle. In general, the definition of click chemistry is described as follows:

1. give very high chemical yields of desired products
2. combination of readily available simple building blocks
3. generate almost no byproducts
4. simple product isolation by non-chromatographic methods
5. reaction proceeds in water, as well as in organic solvents

While there are a number of reactions that fulfill this criteria, the Huisgen 1,3-dipolar [3 + 2] cycloaddition¹⁾ of azides and alkynes has emerged as the frontrunner. In general, the 1,2,3-triazole ring is not almost oxidized or reduced, which makes it possible to strongly connect two substrates.



In the Huisgen reaction, metal catalysts, such as copper sulfate, are generally required for reaction acceleration. In especial, it has been reported that the combination of tris[(1-benzyl-1*H*-1,2,3-triazol-4-yl)methyl]amine (TBTA) [T2993] and catalysts shows excellent reactivity.²⁾

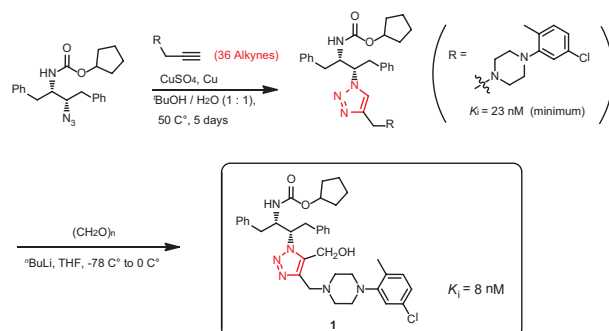


This reaction system affords desired products in almost 100% yield with no need of repurification, such as recrystallization or column chromatography. Thus, this methodology is an eco-friendly reaction. Moreover, the combination of various alkynes and azides allows it to rapidly construct large compound libraries, and 1,2,3-triazole itself exhibits various kinds of biological activities, such as anti-allergenic or anti-bacterial activities. In addition, the reaction proceeds even in water, and thus, click chemistry has been widely used in many research fields as below.

● Research of Various Pharmaceutical Lead Candidates

a) Application of Anti-HIV Agent Discovery³⁾

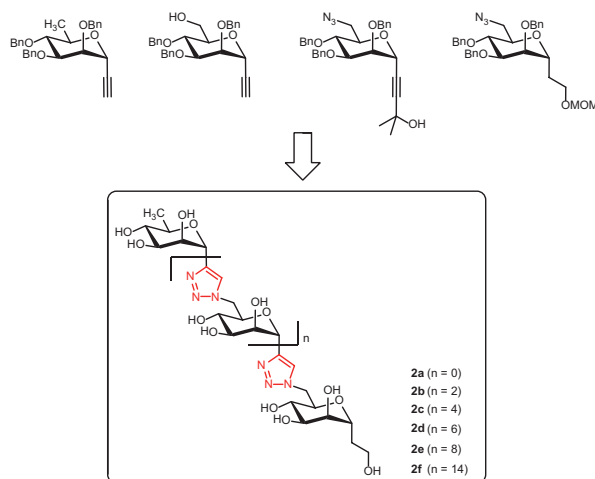
Whiting and Sharpless *et al.* have reported the synthesis of a series of 1,4-disubstituted-1,2,3-triazoles as potential candidates for HIV protease inhibitors in a combination of azide-containing fragments with a diverse array of functionalized alkyne-containing building blocks by using click chemistry. After further optimization, it was revealed that **1** has the highest activity, exhibiting 8 nM of K_i value.



b) Research of Mycobacterium Tuberculosis

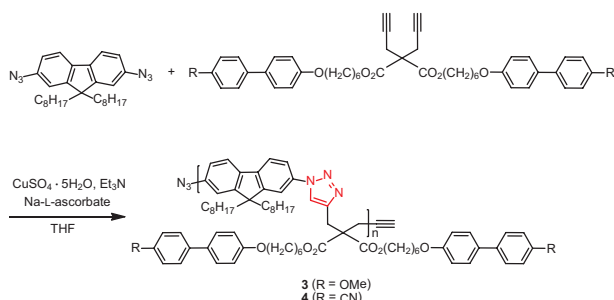
Cell Wall Synthetase⁴⁾

Dondoni *et al.* have reported the synthesis of a set of C-oligomannosides (**2a-f**) through click chemistry using a 1,2,3-triazole ring as the interglycosidic linker. The compounds **2a-f** inhibit mannosyltransferases, which are involved in the biosynthesis of the cell envelope of *Mycobacterium tuberculosis* cell wall synthase. Among them, the hexamer ($n = 4$) **2c** and octamer ($n = 6$) **2f** show the highest activities $IC_{50} = 0.14$ and 0.22 mM, respectively.



Synthesis of Functional Materials

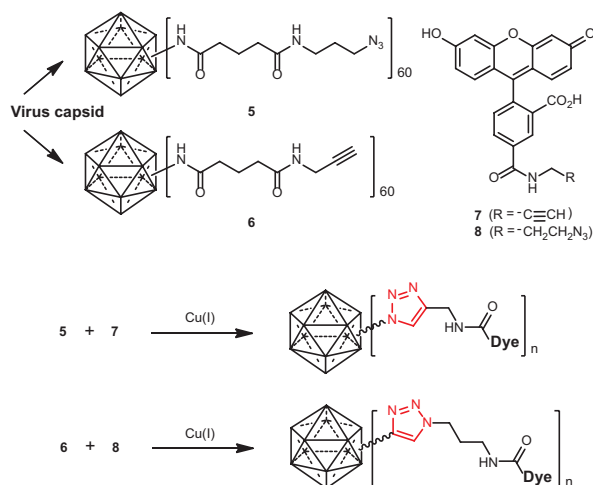
Click chemistry has been also successfully applied into polymer synthesis or material science. For example, Kang and Jin *et al.* have reported the synthesis of side-chain liquid-crystal polymers **3** and **4** by using click chemistry. According to their results, the dye-sensitized solar-cell fabricated from **3** gives a power-conversion efficiency of 4.11%.⁵⁾



Bioscience

Bioconjugation (example: surface modification of virus)⁶⁾

In general, viruses are made up of a number of protein subunits, and capsids, which enclose DNA or RNA, are formed as protein shells. In particular, in the case of spherical viruses, the capsids have an icosahedral symmetry form with sixty protein subunits. Finn and Sharpless *et al.* have reported the modification of the exterior surface of a spherical virus, *cowpea mosaic virus* by azides or alkynes, followed by the labeling of these species using fluorescein dye-azide or alkyne by click chemistry.

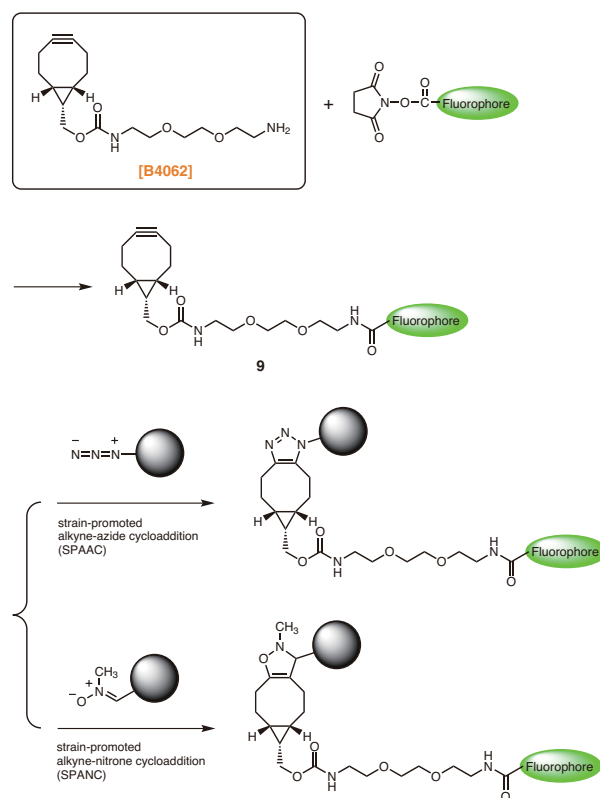


Thus, click chemistry has been widely used as a methodology of synthesizing novel molecules in a number of research fields. Other than these applications, click chemistry also has been applied in various fields, such as the synthesis of dendrimers,⁷⁾ dendrons,⁸⁾ calyxarenes,⁹⁾ rotaxanes,¹⁰⁾ catenanes,¹¹⁾ the development of chemical sensors,¹²⁾ and the labeling of DNA.¹³⁾

Copper-free Click Reaction

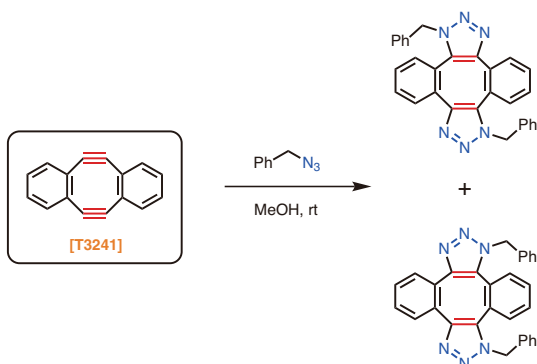
As described above, click chemistry also has been used for imaging labeling and tracking labeling of biomolecules. However, the reaction is not suitable for labeling of living systems because it needs a highly-concentrated copper(I) species, thus, bioorthogonal reactions such as metal-free click chemistry also have been developed.

N-(1*R*,8*S*,9*s*)-bicyclo[6.1.0]non-4-yn-9-ylmethyloxycarbonyl-1,8-diamino-3,6-dioxaoctane (BCN-amine) [**B4062**] is a linker having a strained structure with cyclooctyne, and it is used for the copper-free click reaction to azides. For example, **B4062** bonded to a fluorophore (**9**) has resulted in labeling of an azidohomoalanine-containing virus capsid protein without copper(I) species.¹⁴⁾ In addition, **B4062** can be applied to not only strain-promoted alkyne-azide cycloaddition (SPAAC)¹⁵⁾ but also strain-promoted alkyne-nitrone cycloaddition (SPANC).¹⁶⁾



Additionally, Hosoya *et al.* have reported the “double-click reaction” applying 5,6,11,12-tetradehydrobenzo[*a,e*]cyclooctene [**T3241**]¹⁷⁾ in click chemistry. The high reactivity of the two alkyne moieties allows the reaction to proceed smoothly without using metal catalysts, such as a copper salt.¹⁸⁾

Metal-Free Double-click Reaction



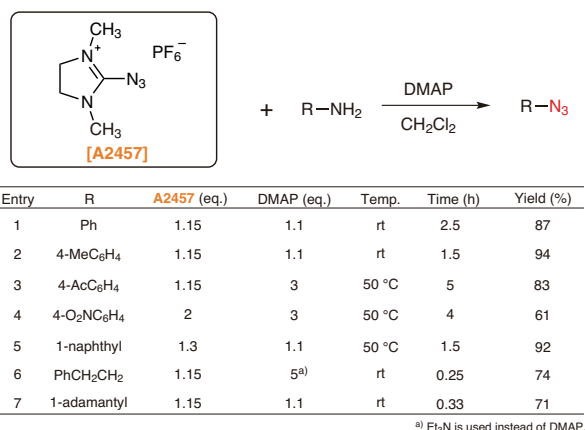
Chiba *et al.* have reported a new click reaction using *N*-succinimidyl 4-(azidosulfonyl)benzoate **S0973** and *N*-(1-Thioethoxy)glycine **T3312**.²⁴⁾ This reaction needs no metal ion species, and the sulfonyl azide group of **S0973** and thioamide group of **T3312** reacts to form the sulfoamidine moiety. Furthermore, the reaction proceeds at room temperature in water and is applicable to the biorthogonal click reaction.

TCI offers a variety of azide and terminal acetylene compounds readily available in the field of click chemistry as below. In addition, azidation and ethynylation reagents are also listed in this brochure.

● Azidation Reagent

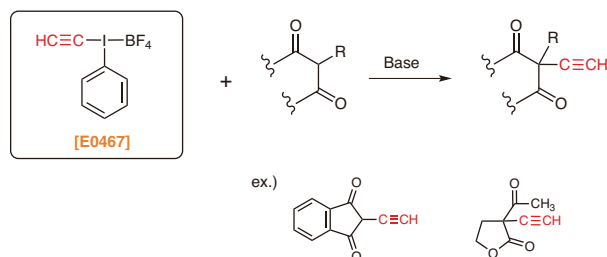
Organic azide compounds can be synthesized in a simple manner by the reaction of sodium azide with halogenated alkyl compounds, or the reaction with trifluoromethanesulfonyl azide and primary amines, however, these azide sources potentially have highly explosive character, which makes it difficult to handle. 2-Azido-1,3-dimethylimidazolinium hexafluorophosphate **A2457**, which was developed by Kitamura *et al.*, is a crystalline diazo transfer reagent having high thermal stability and low explosibility. The differential scanning calorimetry (DSC) experiment of **A2457** has revealed that the exothermic decomposition temperature was approximately 200 °C. Moreover, **A2457** has tested negative for the impact and friction-sensitivity tests.¹⁹⁾

Under basic conditions, **A2457** reacts with several kinds of primary amines in a short time to afford the corresponding diazo compounds in high yields.²⁰⁾ In these reactions, the by-products can be removed by conventional extraction procedures due to their high solubility in water.

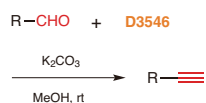
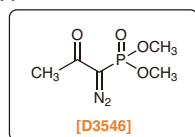


● Ethynylation Reagents

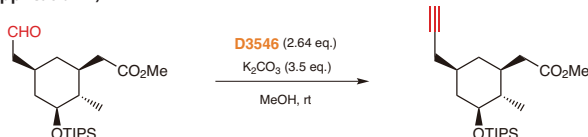
A number of ethynylation reagents have been developed for the synthesis of terminal acetylenes. For example, ethynyl(phenyl) iodonium tetrafluoroborate **E0467** is an electrophilic ethynylation reagent developed by Ochiai *et al.*, which reacts with active methylene compounds to afford the corresponding α-ethynylated products in high yields under mild conditions. As for other existing electrophilic ethynylation reagents, ethyl lead triacetate has been exploited, which is prepared from ethynyl(trimethyl)stannane and lead tetraacetate. However, preparation of this reagent requires the use of heavy metal compounds, which make it an unattractive procedure. The ethynylation procedure using this reagent requires careful control of the reaction conditions. The ethynylation method using **E0467** has been at the center of attention in many fields, as this method does not use highly toxic heavy metal compounds, and the reaction proceeds under mild conditions.



Additionally, dimethyl (1-diazo-2-oxopropyl)phosphonate **D3546** is a reagent for the synthesis of terminal alkynes, which was developed by Ohira and Bestmann *et al.*^{21,22)} **D3546** reacts with aldehydes in the presence of potassium carbonate and methanol to give the one homologated terminal alkynes in high yields. **D3546** is widely known as the "Ohira-Bestmann reagent" after its discoverers and the reaction proceeds in mild conditions without using strong bases.

(Application 1)²²⁾

R-CHO	Product	Yield (%)
		97
		74
		80

(Application 2)²³⁾

References

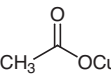
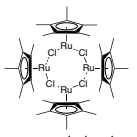
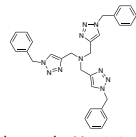
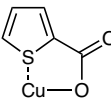
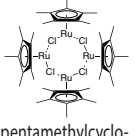
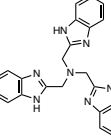
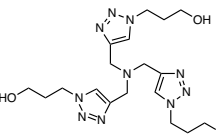
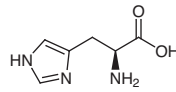
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The list of products

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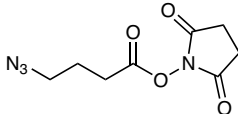
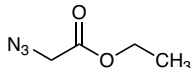
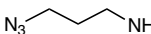
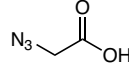
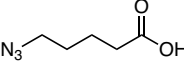
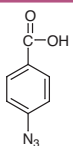
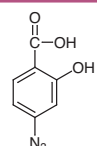
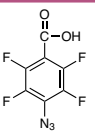
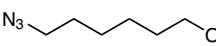
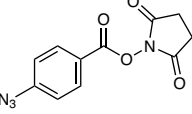
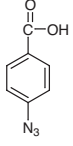
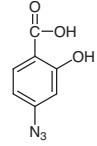
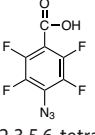
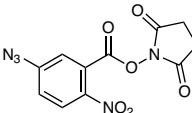
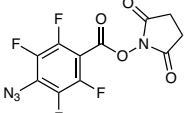
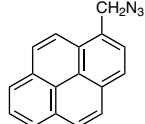
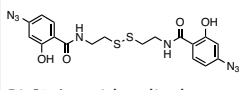
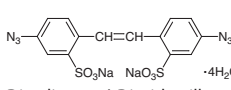
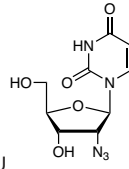
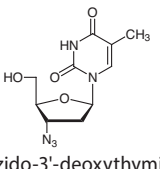
Metal Catalysts, Ligands	7
Azides	7
Organic Azides	7
PEG Azides	8
Sugar Azides	9
Terminal Alkynes	10
Aliphatic Hydrocarbons	10
Aromatic Hydrocarbons	10
Alcohols	12
Carboxylic Acids & Esters	13
Amines	13
Heterocyclic Compounds	14
Polyethylene Glycols (PEG)	14
Others	15
Cu-free Click Reaction Reagents	15
Azidation Reagents	16
Ethynylation Reagents	16

Metal Catalysts, Ligands

T2665 5g $(\text{CH}_3\text{CN})_4\text{Cu}^+ \text{PF}_6^-$ Tetrakis(acetonitrile)copper(I) Hexafluorophosphate CAS RN: 64443-05-6	T2666 1g 5g 25g $(\text{CH}_3\text{CN})_4\text{Cu}^+ \text{BF}_4^-$ Tetrakis(acetonitrile)copper(I) Tetrafluoroborate CAS RN: 15418-29-8	A1540 5g 25g  Copper(I) Acetate CAS RN: 598-54-9	C2346 25g 500g $[\text{CH}_3\text{C}(=\text{O})\text{O}]_2 \text{Cu}^{2+} \cdot \text{H}_2\text{O}$ Copper(II) Acetate Monohydrate CAS RN: 6046-93-1	T1442 1g 5g $[\text{CF}_3\text{SO}_2\text{OCu}]_2 \cdot \text{C}_6\text{H}_6$ Copper(I) Trifluoromethanesulfonate Benzene Complex CAS RN: 42152-46-5
C3042 200mg  Chloro(pentamethylcyclopentadienyl)ruthenium(II) Tetramer CAS RN: 113860-07-4	T2993 1g 5g  Tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine (TBTA) CAS RN: 510758-28-8	C2312 1g 5g  Copper(I) 2-Thiophenecarboxylate CAS RN: 68986-76-5	C1952 25g 300g CuCN Copper(I) Cyanide CAS RN: 544-92-3	R0074 1g 5g $\text{RuCl}_3 \cdot x\text{H}_2\text{O}$ Ruthenium(III) Chloride Hydrate CAS RN: 14898-67-0
B0989 1g  Bathophenanthroline disulfonic acid Disodium Salt Hydrate CAS RN: 53744-42-6	T3170 200mg 1g  Tris(2-benzimidazolylmethyl)amine CAS RN: 64019-57-4	T3171 200mg  THPTA CAS RN: 760952-88-3	H0149 25g 250g  L-Histidine CAS RN: 71-00-1	

Azides

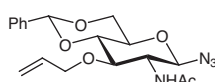
Organic Azides

D5873 100mg 500mg  Succinimidyl 4-Azidobutyrate CAS RN: 943858-70-6	E1255 5g 25g  Ethyl Azidoacetate CAS RN: 637-81-0	A2738 100mg  3-Azidopropylamine CAS RN: 88192-19-2	A3079 1g  Azidoacetic Acid CAS RN: 18523-48-3	A2729 200mg  5-Azidovaleric Acid CAS RN: 79583-98-5
A0930 5g 25g  4-Azidobenzoic Acid CAS RN: 6427-66-3	A2290 100mg 1g  4-Azidosalicylic Acid CAS RN: 66761-27-1	A2674 1g  4-Azido-2,3,5,6-tetrafluorobenzoic Acid CAS RN: 122590-77-6	A3365 250mg  6-Azidohexan-1-ol CAS RN: 146292-90-2	H1760 25mg 100mg  N-Succinimidyl 4-Azidobenzoate CAS RN: 53053-08-0
A0930 5g 25g  4-Azidobenzoic Acid CAS RN: 6427-66-3	A2290 100mg 1g  4-Azidosalicylic Acid CAS RN: 66761-27-1	A2674 1g  4-Azido-2,3,5,6-tetrafluorobenzoic Acid CAS RN: 122590-77-6	S0860 10mg  N-Succinimidyl 5-Azido-2-nitrobenzoate CAS RN: 60117-35-3	S0952 200mg 1g  N-Succinimidyl 4-Azido-2,3,5,6-tetrafluorobenzoate CAS RN: 126695-58-7
A2791 200mg 1g  1-(Azidomethyl)pyrene CAS RN: 1006061-57-9	B3790 10mg  Bis[2-(4-azidosalicylamido)ethyl] Disulfide CAS RN: 199804-21-2	D1606 25g  Disodium 4,4'-Diazidostilbene-2,2'-disulfonate Tetrahydrate CAS RN: 2718-90-3	A2942 25mg 100mg  N₃-dU CAS RN: 26929-65-7	A2052 1g 5g  3'-Azido-3'-deoxythymidine CAS RN: 30516-87-1

A3020 250mg 4-Azido-N-Fmoc-L-homoalanine CAS RN: 942518-20-9	A3023 250mg 6-Azido-N-Fmoc-L-norleucine CAS RN: 159610-89-6	A3129 50mg 200mg cis-4-Azido-N-Boc-L-proline CAS RN: 132622-65-2	A2524 100mg N-(3-Azidopropyl)biotinamide CAS RN: 908007-17-0	A2474 100mg 2-Azido-1,3-bis[(2,2-dimethyl-1,3-dioxan-5-yl)oxy]propane CAS RN: 1392500-07-0
T1184 1g 5g Trimethylsilylmethyl Azide CAS RN: 87576-94-1	A2783 100mg (11-Azidoundecyl)-trimethoxysilane CAS RN: 334521-23-2	B3694 100mg (2S,3S,5R,6R)-5,6-Bis(azidomethyl)-2,3-dimethoxy-2,3-dimethyl-1,4-dioxane CAS RN: 1585236-34-5	A2457 5g 25g 250g 2-Azido-1,3-dimethylimidazolium Hexafluorophosphate CAS RN: 1266134-54-6	A2523 100mg Biotin-PEG ₃ -Azide CAS RN: 875770-34-6
B6265 1set Biotin-PEG ₃ -Azide (2mgx5) CAS RN: 875770-34-6	A2914 200mg N-[4-(Azidosulfonyl)-benzoyl]ethylenediamine Trifluoroacetate CAS RN: 334521-23-2	A3306 50mg 250mg 1g 3-Azido-7-hydroxycoumarin CAS RN: 817638-68-9	A3432 1g 4-Azido-2,3,5,6-tetrafluoro-N-(2-methacrylamidoethyl)-benzamide CAS RN: 2361935-10-4	B1110 5g 25g 2,6-Di(4-azidobenzal)-cyclohexanone (wetted with ca. 30% Water) CAS RN: 20237-98-3
PEG Azides				
	A2728 25mg 100mg Methyl-PEG ₄ -Azide CAS RN: 606130-90-9	A2727 25mg 100mg Methyl-PEG ₈ -Azide CAS RN: 869718-80-9	M3049 25mg Methyl-PEG ₁₂ -Azide CAS RN: 2170098-29-8	M3050 25mg 100mg Methyl-PEG ₂₄ -Azide
A2294 100mg PEG ₄ -Azide CAS RN: 86770-67-4	A2500 100mg PEG ₅ -Azide CAS RN: 86770-68-5	A3130 250mg 1g Azido-PEG ₂ -Amine-Tos-OH CAS RN: 2173092-98-1	A2363 200mg 1g 5g Amino-PEG ₃ -Azide CAS RN: 134179-38-7	A3004 50mg 250mg Amino-PEG ₃ -Azide CAS RN: 951671-92-4
A3007 50mg 250mg Amino-PEG ₁₁ -Azide CAS RN: 1800414-71-4	A3224 100mg Azido-PEG ₃ -acetic Acid CHA Salt CAS RN: 2098500-94-6	A2293 1g Azido-PEG ₃ -acetic Acid CAS RN: 172531-37-2	A2388 25mg Azido-PEG ₄ -NHS Ester CAS RN: 944251-24-5	B5546 100mg Biotin-PEG ₄ -Azide CAS RN: 1309649-57-7
A2523 100mg Biotin-PEG ₃ -Azide CAS RN: 875770-34-6	A3006 100mg H(OCH ₂ CH ₂) ₈ N ₃ PEG ₈ -Azide CAS RN: 352439-36-2	A3202 10mg Azide-PEG ₃ -Desthiobiotin CAS RN: 1426828-06-9	A3260 100mg Azido-PEG ₄ -C ₂ -carboxylic Acid CAS RN: 1257063-35-6	B6081 250mg Bromo-PEG ₃ -Azide CAS RN: 1446282-43-4
B6265 1set Biotin-PEG ₃ -Azide (2mgx5) CAS RN: 875770-34-6	B6266 1set Biotin-PEG ₄ -Azide (2mgx5) CAS RN: 1309649-57-7	G0257 1g 5g 2-[2-(2-Azidoethoxy)ethoxy]-ethyl 2,3,4,6-Tetra-O-acetyl-D-galactopyranoside CAS RN: 381716-33-2	C3904 10mg 100mg CPO-PEG ₃ -Alkyne	C3948 0.5mL CPO-PEG ₃ -azide (ca. 0.2 mol/L in Dimethyl Sulfoxide)

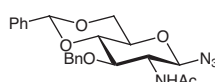
Sugar Azides

A1812 1g



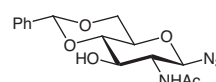
2-Acetamido-3-O-allyl-4,6-O-benzylidene-2-deoxy- β -D-glucopyranosyl Azide
CAS RN: 80887-27-0

A1813 1g



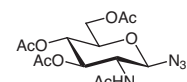
2-Acetamido-3-O-benzyl-4,6-O-benzylidene-2-deoxy- β -D-glucopyranosyl Azide
CAS RN: 80887-27-0

A1811 1g 5g



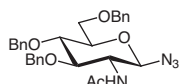
2-Acetamido-4,6-O-benzylidene-2-deoxy- β -D-glucopyranosyl Azide
CAS RN: 168397-51-1

A1616 1g 5g



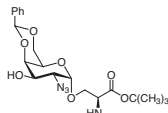
2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy- β -D-glucopyranosyl Azide
CAS RN: 6205-69-2

A1678 1g 5g



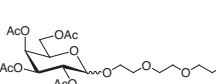
2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy- β -D-glucopyranosyl Azide
CAS RN: 214467-60-4

A1833 100mg



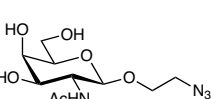
O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-N-[(9H-fluoren-9-ylmethoxy)-carbonyl]-L-threonine *tert*-Butyl Ester
CAS RN: 878483-02-4

G0257 1g 5g



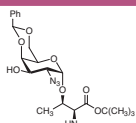
2-[2-(2-Azidoethoxy)ethoxy]-ethyl 2,3,4,6-Tetra-O-acetyl-D-galactopyranoside
CAS RN: 381716-33-2

A2627 Please contact us.



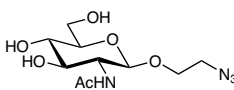
2-Azidoethyl 2-Acetamido-2-deoxy- β -D-galactopyranoside
CAS RN: 142072-15-9

A1832 100mg



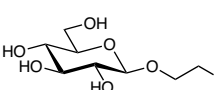
O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-N-[(9H-fluoren-9-ylmethoxy)-carbonyl]-L-threonine *tert*-Butyl Ester
CAS RN: 195976-07-9

A2172 500mg



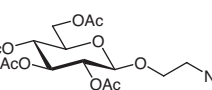
2-Azidoethyl 2-Acetamido-2-deoxy- β -D-glucopyranoside
CAS RN: 142072-12-6

A2267 1g



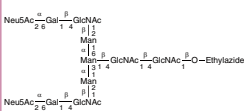
2-Azidoethyl β -D-Glucopyranoside
CAS RN: 165331-08-8

A2377 1g 5g



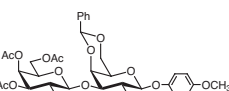
2-Azidoethyl 2,3,4,6-Tetra-O-acetyl- β -D-glucopyranoside
CAS RN: 140428-81-5

D4217 1mg



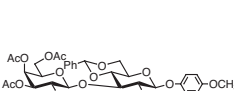
Disialylnonasaccharide β -Ethylazide
CAS RN: 1621001-68-0

G0330 1g 5g



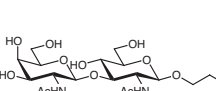
Gal[2346Ac] β (1-3)GalN₃[46Bzd]- β -MP

G0309 1g 5g



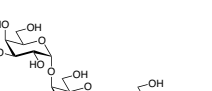
Gal[2346Ac] β (1-3)GlcN₃[46Bzd]- β -MP

G0373 1mg



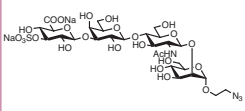
GalNAc β (1-3)GlcNAc β -Ethylazide

G0403 Please contact us.



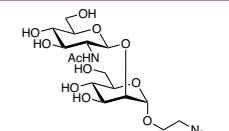
Gb₃- β -ethylazide
CAS RN: 2220267-41-2

G0372 Please contact us.



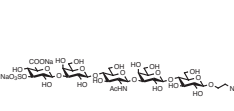
GlcA[35] β (1-3)Gal β (1-4)GlcNAc β (1-2)Man α -Ethylazide

G0337 100mg



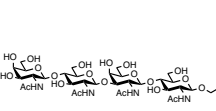
GlcNAc β (1-2)Man α -1-Ethylazide
CAS RN: 1858224-15-3

H1333 Please contact us.



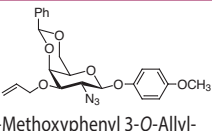
HNK-1 Ethylazide

L0237 Please contact us.



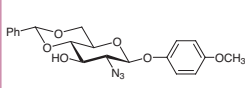
LacDiNAc Dimer Ethylazide

M1643 1g



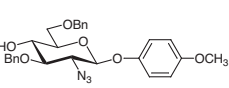
4-Methoxyphenyl 3-O-Allyl-2-azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside
CAS RN: 889453-83-2

M1637 1g 5g



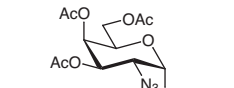
4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy- β -D-glucopyranoside
CAS RN: 1430068-18-0

M1617 1g



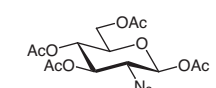
4-Methoxyphenyl 2-Azido-3,6-di-O-benzyl-2-deoxy- β -D-glucopyranoside
CAS RN: 1272755-25-5

T1731 100mg



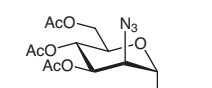
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-galactopyranose
CAS RN: 67817-30-5

T2196 200mg 1g



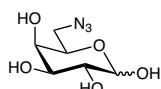
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- β -D-glucopyranose
CAS RN: 80321-89-7

T1733 100mg



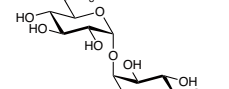
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-mannopyranose
CAS RN: 68733-20-0

A3167 Please contact us.



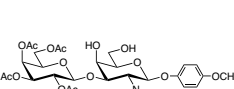
6-Azido-6-deoxy-D-galactopyranose
CAS RN: 66927-03-5

D5372 50mg



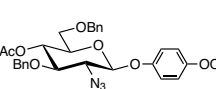
6,6'-Diazido-6,6'-dideoxytrehalose
CAS RN: 18933-88-5

G0329 Please contact us.



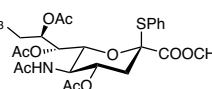
Gal[2346Ac] β (1-3)GalN₃- β -MP

M2051 Please contact us.



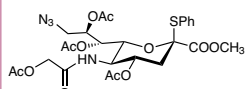
4-Methoxyphenyl 4-O-Acetyl-2-azido-3,6-di-O-benzyl-2-deoxy- β -D-glucopyranoside

M2695 100mg



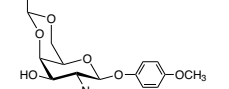
Neu5Gc[1Me,478Ac,9N₃]- β -SPh
CAS RN: 219814-65-0

M2696 100mg



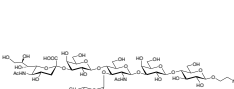
Neu5GcAc[1Me,478Ac,9N₃]- β -SPh
CAS RN: 1195053-25-8

M2737 Please contact us.



4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside
CAS RN: 1340541-47-0

S0922 Please contact us.

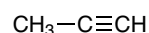


Sialyl Lewis X-Lactose Ethylazide

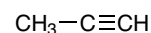
Terminal Alkynes

Aliphatic Hydrocarbons

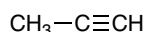
P1881 200g


 Propyne (ca. 3% in Heptane)
CAS RN: 74-99-7

P2152 100mL 500mL


 Propyne (ca. 4% in N,N-Dimethylformamide, ca. 1.0mol/L)
CAS RN: 74-99-7

P2295 100mL 500mL


 Propyne (ca. 5% in Tetrahydrofuran, ca. 1mol/L)
CAS RN: 74-99-7

C1984 5g 25g


 Cyclopropylacetylene
CAS RN: 6746-94-7

P0068 5mL 25mL


 1-Pentyne
CAS RN: 627-19-0

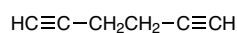
P1273 25g 250g


 Propargyl Chloride
(70% in Toluene, ca. 9.2mol/L)
CAS RN: 624-65-7

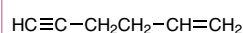
P0810 5mL 25mL


 Propargyl Chloride
CAS RN: 624-65-7

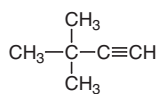
H0485 1g 5g


 1,5-Hexadiyne
(stabilized with BHT)
CAS RN: 628-16-0

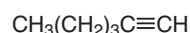
H1541 1g 5g


 1-Hexen-5-yne
CAS RN: 14548-31-3

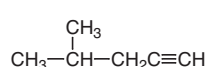
B1114 10mL 100mL


 3,3-Dimethyl-1-butyne
CAS RN: 917-92-0

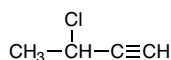
H0140 25mL 250mL


 1-Hexyne
CAS RN: 693-02-7

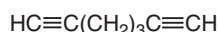
M0269 1mL 5mL


 4-Methyl-1-pentyne
CAS RN: 7154-75-8

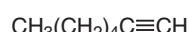
C1195 1g 5g


 3-Chloro-1-butyne
CAS RN: 21020-24-6

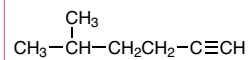
H0483 1mL 5mL


 1,6-Heptadiyne
CAS RN: 2396-63-6

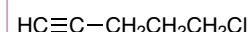
H0048 25mL


 1-Heptyne
CAS RN: 628-71-7

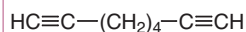
M0271 5mL


 5-Methyl-1-hexyne
CAS RN: 2203-80-7

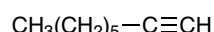
C1522 5mL 25mL


 5-Chloro-1-pentyne
CAS RN: 14267-92-6

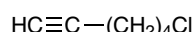
O0147 5mL 25mL


 1,7-Octadiyne
CAS RN: 871-84-1

O0050 25mL 100mL


 1-Octyne
CAS RN: 629-05-0

C1493 5mL 25mL


 6-Chloro-1-hexyne
CAS RN: 10297-06-0

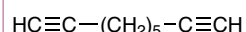
P1272 25g 100g 500g


 Propargyl Bromide
(80% in Toluene, ca. 9.2mol/L)
CAS RN: 106-96-7

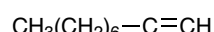
P0484 25g 100g 500g


 Propargyl Bromide
(stabilized with MgO)
CAS RN: 106-96-7

N0406 5mL


 1,8-Nonadiyne
CAS RN: 2396-65-8

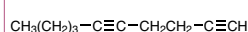
N0301 5mL


 1-Nonyne
CAS RN: 3452-09-3

B3242 5g


 4-Bromo-1-butyne
CAS RN: 38771-21-0

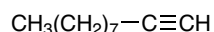
D1724 1mL 5mL


 1,5-Decadiyne
CAS RN: 53963-03-4

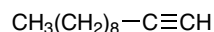
D1326 5mL


 1,9-Decadiyne
CAS RN: 1720-38-3

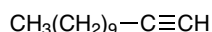
D0037 5mL 25mL


 1-Decyne
CAS RN: 764-93-2

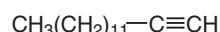
U0033 5mL


 1-Undecyne
CAS RN: 2243-98-3

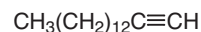
D0997 5mL 25mL


 1-Dodecyne
CAS RN: 765-03-7

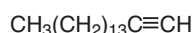
T0761 5mL 25mL


 1-Tetradecyne
CAS RN: 765-10-6

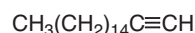
P0356 5mL


 1-Pentadecyne
CAS RN: 765-13-9

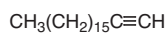
H0433 5mL


 1-Hexadecyne
CAS RN: 629-74-3

H0440 1g


 1-Heptadecyne
CAS RN: 26186-00-5

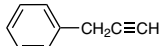
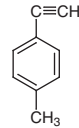
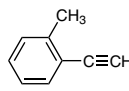
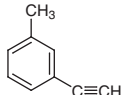
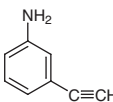
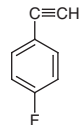
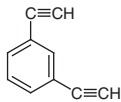
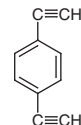
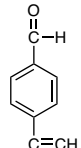
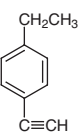
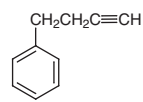
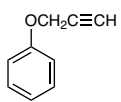
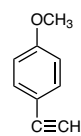
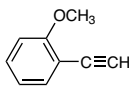
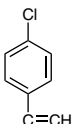
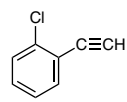
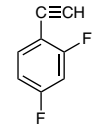
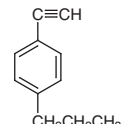
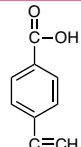
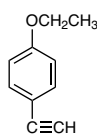
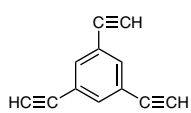
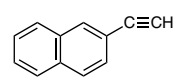
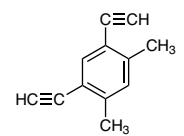
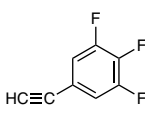
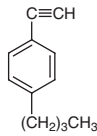
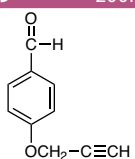
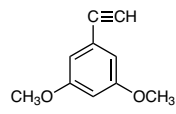
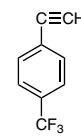
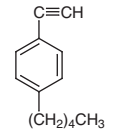
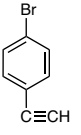
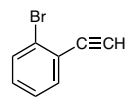
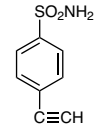
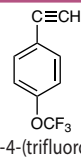
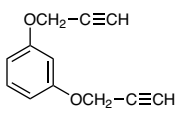
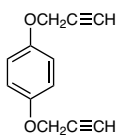
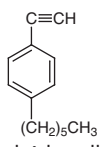
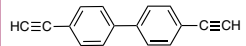
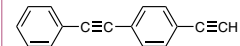
O0128 1mL 5mL

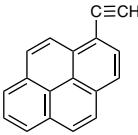
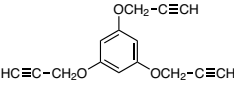
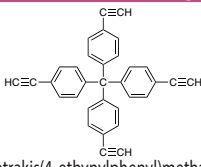
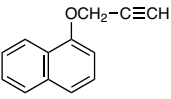
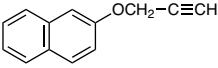
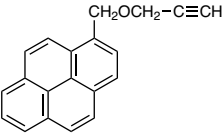
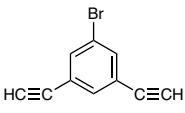
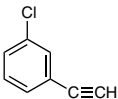
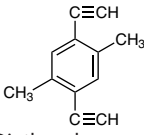
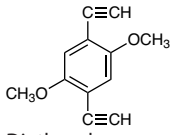
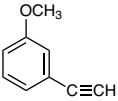
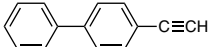
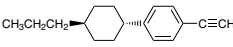
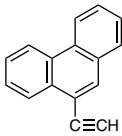
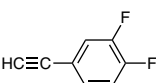
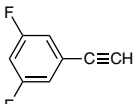
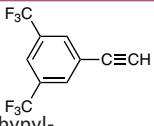
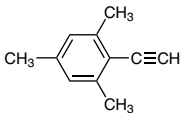
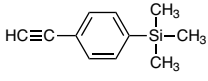
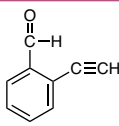
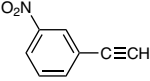
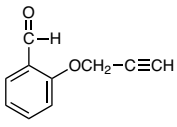
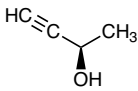
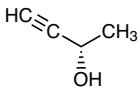
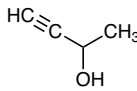
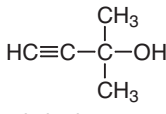
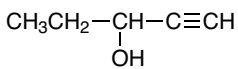
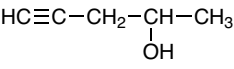
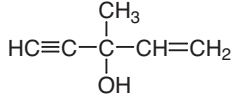
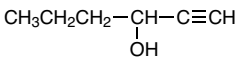
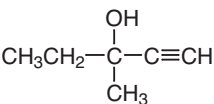
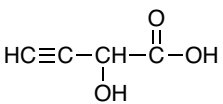
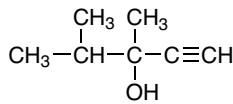
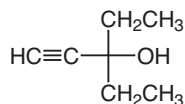
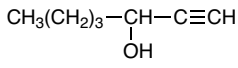

 1-Octadecyne
CAS RN: 629-89-0

E1178 5mL


 1-Ethynyl-1-cyclohexene
CAS RN: 931-49-7

Aromatic Hydrocarbons

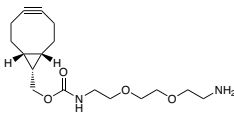
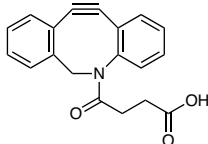
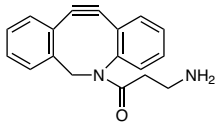
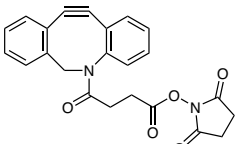
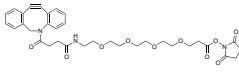
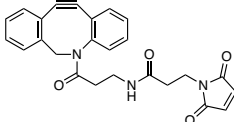
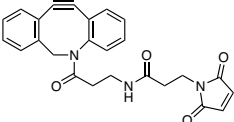
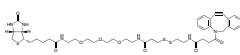
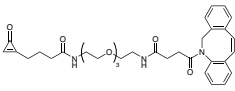
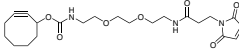
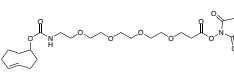
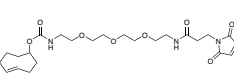
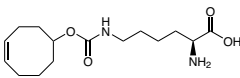
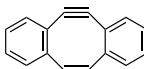
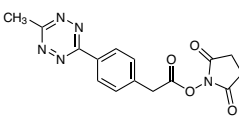
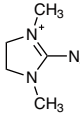
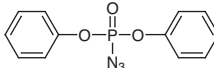
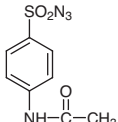
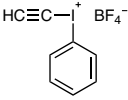
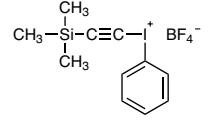
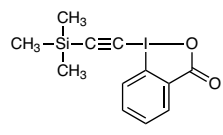
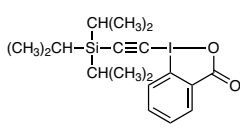
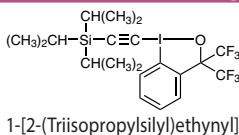
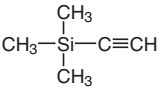
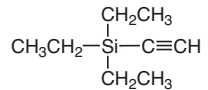
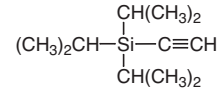
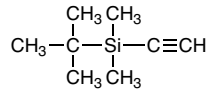
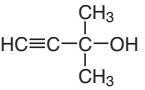
E0196 25mL 100mL 500mL  Ethynylbenzene CAS RN: 536-74-3	P1956 1g 5g  3-Phenyl-1-propyne (stabilized with BHT) CAS RN: 10147-11-2	E0655 5g 25g  4-Ethynyltoluene CAS RN: 766-97-2	E0629 1g 5g  1-Ethynyl-2-methylbenzene CAS RN: 766-47-2	E0665 1g 5g 25g  3-Ethynyltoluene CAS RN: 766-82-5
A1122 5g 25g  3-Ethynylaniline CAS RN: 54060-30-9	E0654 5g  1-Ethynyl-2-fluorobenzene CAS RN: 766-49-4	F0470 1g 5g  1-Ethynyl-4-fluorobenzene CAS RN: 766-98-3	D2496 1g 5g  1,3-Diethynylbenzene CAS RN: 1785-61-1	D2151 1g 5g  1,4-Diethynylbenzene CAS RN: 935-14-8
E0987 1g  4-Ethynylbenzaldehyde CAS RN: 63697-96-1	E0749 5g 25g  1-Ethyl-4-ethynylbenzene CAS RN: 40307-11-7	P0358 5mL  4-Phenyl-1-butyne CAS RN: 16520-62-0	P2222 5g 25g  Phenyl Propargyl Ether CAS RN: 13610-02-1	E0603 1g 5g 25g  4-Ethynylanisole CAS RN: 768-60-5
E1172 1g 5g  1-Ethynyl-2-methoxybenzene CAS RN: 767-91-9	C2670 1g 5g  1-Chloro-4-ethynylbenzene CAS RN: 873-73-4	C2750 1g 5g  2-Chlorophenylacetylene CAS RN: 873-31-4	E1169 1g 5g  1-Ethynyl-2,4-difluorobenzene CAS RN: 302912-34-1	E0750 5g 25g  1-Ethynyl-4-propylbenzene CAS RN: 62452-73-7
E1041 1g  4-Ethynylbenzoic Acid CAS RN: 10602-00-3	E1029 1g 5g  4-Ethoxyphenylacetylene CAS RN: 79887-14-2	T2760 1g 5g  1,3,5-Triethynylbenzene CAS RN: 7567-63-7	E0933 100mg  2-Ethynynaphthalene CAS RN: 2949-26-0	D4878 1g 5g  1,5-Diethynyl-2,4-dimethylbenzene CAS RN: 1379822-09-9
E1078 1g  5-Ethynyl-1,2,3-trifluorobenzene CAS RN: 158816-55-8	B2301 5g 25g  1-Butyl-4-ethynylbenzene CAS RN: 79887-09-5	P2339 200mg 1g  4-(Propargyloxy)benzaldehyde CAS RN: 5651-86-5	E1175 200mg 1g  1-Ethynyl-3,5-dimethoxybenzene CAS RN: 171290-52-1	E0626 1g 5g  1-Ethynyl-4-(phenylethynyl)benzene CAS RN: 705-31-7
E0563 5g 25g  1-Ethynyl-4-pentylbenzene CAS RN: 79887-10-8	B3701 1g 5g  1-Bromo-4-ethynylbenzene CAS RN: 766-96-1	B4608 1g 5g  2-Bromophenylacetylene CAS RN: 766-46-1	E1130 200mg 1g  4-Ethynylbenzenesulfonamide CAS RN: 1788-08-5	E1170 1g 5g  1-Ethynyl-4-(trifluoromethoxy)benzene CAS RN: 160542-02-9
B4521 200mg 1g  1,3-Bis(2-propynyloxy)benzene CAS RN: 26627-36-1	B4607 1g 5g  1,4-Bis(2-propynyloxy)benzene CAS RN: 34596-36-6	E0564 5g 25g  1-Ethynyl-4-hexylbenzene CAS RN: 79887-11-9	D4233 200mg 1g  4,4'-Diethynylbiphenyl CAS RN: 38215-38-2	E0967 200mg 1g  1-Ethynyl-4-(phenylethynyl)benzene CAS RN: 92866-00-7

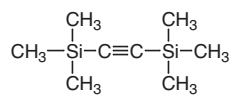
E0939 200mg 1g  1-Ethynylpyrene CAS RN: 34993-56-1	T3135 200mg 1g  1,3,5-Tris(2-propynyloxy)benzene CAS RN: 114233-80-6	T3151 100mg 1g  Tetrakis(4-ethynylphenyl)methane CAS RN: 177991-01-4	P2227 1g 5g  1-(2-Propynyloxy)naphthalene CAS RN: 18542-45-5	P2190 200mg 1g  2-(2-Propynyloxy)naphthalene CAS RN: 20009-28-3
P2226 200mg 1g  1-[(2-Propynyloxy)methyl]pyrene CAS RN: 1115084-83-7	B5444 200mg 1g  1-Bromo-3,5-diethynylbenzene CAS RN: 144001-08-1	C3099 1g 5g  1-Chloro-3-ethynylbenzene CAS RN: 766-83-6	D5314 200mg 1g  1,4-Diethynyl-2,5-dimethylbenzene CAS RN: 75867-45-7	D5315 200mg 1g  1,4-Diethynyl-2,5-dimethoxybenzene CAS RN: 74029-40-6
E0627 1g 5g  3-Ethynylanisole CAS RN: 768-70-7	E1141 1g 5g  4-Ethynylbiphenyl CAS RN: 29079-00-3	E1232 1g  1-Ethynyl-4-(trans-4-propylcyclohexyl)-benzene CAS RN: 88074-73-1	E1301 1g 5g  9-Ethynylphenanthrene CAS RN: 32870-98-7	E1349 1g  4-Ethynyl-1,2-difluorobenzene CAS RN: 143874-13-9
E1352 1g 5g  1-Ethynyl-3,5-difluorobenzene CAS RN: 151361-87-4	E1353 1g 5g  1-Ethynyl-3,5-bis(trifluoromethyl)-benzene CAS RN: 88444-81-9	E1361 1g 5g  2-Ethynyl-1,3,5-trimethylbenzene CAS RN: 769-26-6	E1362 1g 5g  (4-Ethynylphenyl)-trimethylsilane CAS RN: 16116-92-0	E1420 1g  2-Ethynylbenzaldehyde CAS RN: 38846-64-9
N1148 200mg 1g  3-Nitrophenylacetylene CAS RN: 3034-94-4	P2338 200mg 1g  2-(Propargyloxy)-benzaldehyde CAS RN: 29978-83-4	Alcohols		
P0536 25mL 100mL 500mL $\text{HC}\equiv\text{C}-\text{CH}_2\text{OH}$ 2-Propyn-1-ol CAS RN: 107-19-7	B0799 5mL 25mL $\text{HC}\equiv\text{C}-\text{CH}_2\text{CH}_2\text{OH}$ 3-Butyn-1-ol CAS RN: 927-74-2			
B2909 1g 5g  (R)-(+)-3-Butyn-2-ol CAS RN: 42969-65-3	B2910 1g 5g  (S)-(-)-3-Butyn-2-ol CAS RN: 2914-69-4	B1001 5mL 25mL  3-Butyn-2-ol CAS RN: 2028-63-9	M0180 25mL 500mL  2-Methyl-3-butyn-2-ol CAS RN: 115-19-5	P0069 10g  1-Pentyn-3-ol CAS RN: 4187-86-4
P0817 5mL 25mL $\text{HC}\equiv\text{C}-\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ 4-Pentyn-1-ol CAS RN: 5390-04-5	P0818 5mL  4-Pentyn-2-ol CAS RN: 2117-11-5	M1312 5mL 25mL  3-Methyl-1-penten-4-yn-3-ol CAS RN: 3230-69-1	H0141 5mL 25mL  1-Hexyn-3-ol CAS RN: 105-31-7	H0687 5mL 25mL $\text{HC}\equiv\text{C}-(\text{CH}_2)_4\text{OH}$ 5-Hexyn-1-ol CAS RN: 928-90-5
M0396 25mL 100mL 500mL  3-Methyl-1-pentyn-3-ol CAS RN: 77-75-8	H0905 100mg 1g  2-Hydroxy-3-butynoic Acid CAS RN: 38628-65-8	D1276 10mL  3,4-Dimethyl-1-pentyn-3-ol CAS RN: 1482-15-1	E0273 25mL  3-Ethyl-1-pentyn-3-ol CAS RN: 6285-06-9	H0455 1mL 5mL  1-Heptyn-3-ol CAS RN: 7383-19-9

H1474 5mL <chem>HC#C(CH2)5OH</chem> 6-Heptyn-1-ol CAS RN: 63478-76-2	M0961 5mL <chem>CC(C)C(C)C#C</chem> 5-Methyl-1-hexyn-3-ol CAS RN: 61996-79-0	E0297 25g 500g <chem>OC1(C#C)CCCC1</chem> 1-Ethynyl-1-cyclohexanol CAS RN: 78-27-3	D0737 25mL 100mL 500mL <chem>CC(C)CC(C)(C)C#C</chem> 3,5-Dimethyl-1-hexyn-3-ol CAS RN: 107-54-0	O0235 1g 5g <chem>CCCCC[C@H](C#C)O</chem> (S)-1-Octyn-3-ol CAS RN: 32556-71-1	
O0196 25mL 250mL <chem>CCCCC[C@H](C#C)O</chem> 1-Octyn-3-ol CAS RN: 818-72-4	O0445 1mL 5mL <chem>HC#C(CH2)6OH</chem> 7-Octyn-1-ol CAS RN: 871-91-0	H0823 1g <chem>CCOC(=O)C(O)C#C</chem> Ethyl 2-Hydroxy-3-butynoate CAS RN: 18418-08-1	P0220 1g 5g 25g <chem>CC(O)(C#C)c1ccccc1</chem> 1-Phenyl-2-propyn-1-ol CAS RN: 4187-87-5	D3710 5g 25g <chem>HC#C(CH2)8OH</chem> 9-Decyn-1-ol CAS RN: 17643-36-6	
E0270 25mL 500mL <chem>CCCC(C)C(O)C#C</chem> 4-Ethyl-1-octyn-3-ol CAS RN: 5877-42-9	U0055 5g <chem>HC#C(CH2)9OH</chem> 10-Undecyn-1-ol CAS RN: 2774-84-7	E0548 5g <chem>OC1(C#C)C2c3ccccc3c4ccccc241</chem> 9-Ethynyl-9-fluorenol CAS RN: 13461-74-0	D2495 5g 25g <chem>CC(O)(C#C)(c1ccccc1)c2ccccc2</chem> 1,1-Diphenyl-2-propyn-1-ol CAS RN: 3923-52-2	Carboxylic Acids & Esters	
P0497 5g 25g <chem>OC(=O)C#C</chem> Propiolic Acid CAS RN: 471-25-0	B4969 200mg <chem>OC(=O)CC#C</chem> 3-Butynoic Acid CAS RN: 2345-51-9	H0905 100mg 1g <chem>OC(=O)C(O)C#C</chem> 2-Hydroxy-3-butynoic Acid CAS RN: 38628-65-8	H0882 5g 25g <chem>OC(=O)CCCC#C</chem> 5-Hexynoic Acid CAS RN: 53293-00-8		U0054 1g 5g <chem>OC(=O)CCCCC#C</chem> 10-Undecynoic Acid CAS RN: 2777-65-3
H0964 5g 25g <chem>OC(=O)C(C#C)CCCC</chem> 2-Hexyl-4-pentynoic Acid CAS RN: 96017-59-3	P0528 5mL 25mL <chem>COCC(=O)C#C</chem> Methyl Propiolate CAS RN: 922-67-8	P0529 5mL 25mL <chem>CCOC(=O)C#C</chem> Ethyl Propiolate CAS RN: 623-47-2	P1038 5g 25g <chem>CC(C)(C)OC(=O)C#C</chem> <i>tert</i>-Butyl Propiolate CAS RN: 13831-03-3		H0823 1g <chem>CCOC(=O)C(O)C#C</chem> Ethyl 2-Hydroxy-3-butynoate CAS RN: 18418-08-1
D6072 1g 5g <chem>COC(=O)C(C#C)C(=O)OC</chem> Dimethyl 2-Propynylmalonate CAS RN: 95124-07-5	D4616 1g 5g <chem>CCOC(=O)CC(C#C)C(=O)OCC</chem> Diethyl 2-Propynylmalonate CAS RN: 17920-23-9	B4007 1g <chem>C[C@H](C#C)C(=O)O</chem> Boc-propargyl-Gly-OH CAS RN: 63039-48-5	F0926 1g <chem>C[C@H](C#C)C(=O)O</chem> Fmoc-propargyl-Gly-OH CAS RN: 198561-07-8		P2341 1g 5g <chem>OC(=O)CC#C</chem> 4-Pentynoic Acid CAS RN: 6089-09-4
P2878 5g 25g <chem>C#CCOC(=O)C=C</chem> Propargyl Acrylate (stabilized with BHT) CAS RN: 10477-47-1	Amines	P0911 5mL 25mL <chem>NC#CC</chem> Propargylamine CAS RN: 2450-71-7	P0990 5g 25g <chem>NC#CC</chem> Propargylamine Hydrochloride CAS RN: 15430-52-1	P2166 1g 5g <chem>NCCCOCC#C</chem> 2-(2-Propynyloxy)ethylamine CAS RN: 122116-12-5	
D4685 1mL 5mL <chem>C#CCNC#C</chem> Dipropargylamine CAS RN: 6921-28-4		D2794 5mL 25mL <chem>CN(C)CC#C</chem> <i>N,N</i>-Dimethylpropargylamine CAS RN: 7223-38-3	D2817 5mL <chem>CCCN(CCC)CC#C</chem> 3-Dibutylamino-1-propyne CAS RN: 6336-58-9	D4964 1g 5g <chem>CC#CCN(S(=O)(=O)c1ccc(C)cc1)</chem> <i>N,N</i>-Dipropargyl-<i>p</i>-toluenesulfonamide CAS RN: 18773-54-1	B5925 200mg 1g <chem>NC#CC</chem> 3-Butyn-1-amine Hydrochloride CAS RN: 88211-50-1

D5393 5mL 25mL 3-Diethylamino-1-propyne CAS RN: 4079-68-9	E0505 10g 25g 4-Ethynylaniline CAS RN: 14235-81-5	E0894 1g 4-Ethynyltriphenylamine CAS RN: 205877-26-5	E1021 1g 5g 4-Ethynyl-N,N-dimethylaniline CAS RN: 17573-94-3	P2224 1g 5g 4-(2-Propynyloxy)aniline CAS RN: 26557-78-8
R0213 250mg 1g 5g Rasagiline Mesylate CAS RN: 161735-79-1	T2992 1g 5g Tripropargylamine CAS RN: 6921-29-5	T3094 1g Tris(4-ethynylphenyl)-amine CAS RN: 189178-09-4	Heterocyclic Compounds	
P1624 25g 2-(2-Propynyloxy)-tetrahydropyran CAS RN: 6089-04-9	P2191 200mg 1g N-(2-Propynyl)succinimide CAS RN: 10478-33-8	P2228 200mg 1g 1-Propargylpiperazine CAS RN: 52070-67-4	P2170 200mg 1g 4-Propargylmorpholine CAS RN: 5799-76-8	P1469 5g 25g 4-Propargylthiomorpholine 1,1-Dioxide CAS RN: 10442-03-2
P2329 5g 25g N-Propargylphthalimide CAS RN: 7223-50-9	P2342 1g 5g N-(Propargyloxy)phthalimide CAS RN: 4616-63-1	E0579 1g 5g 4-Ethynylphthalic Anhydride CAS RN: 73819-76-8	E0915 1g 5g 2-Ethynylthiophene CAS RN: 4298-52-6	E0892 1g 5g 3-Ethynylthiophene CAS RN: 67237-53-0
E0340 1mL 5mL 2-Ethynylpyridine CAS RN: 1945-84-2	E0560 1g 5g 3-Ethynylpyridine CAS RN: 2510-23-8	E0561 100mg 500mg 4-Ethynylpyridine CAS RN: 2510-22-7	E1043 1g 5g 4-Ethynylpyridine Hydrochloride CAS RN: 352530-29-1	D5097 200mg 1g 2,6-Diethynylpyridine CAS RN: 75867-46-8
E1096 200mg 1g 5-Ethynyluracil CAS RN: 59989-18-3	E1057 50mg 200mg EdU CAS RN: 61135-33-9	E1093 50mg 200mg 5-Ethynyl-2'-deoxycytidine CAS RN: 69075-47-4	E1055 1g 5g 9-(4-Ethynylphenyl)carbazole CAS RN: 262861-81-4	B4921 200mg 1g 4-Bromo-2,6-diethynylpyridine CAS RN: 1374038-64-8
B5179 200mg 1g 5-Bromo-2-ethynylpyridine CAS RN: 111770-86-6	D4613 1g 5g 3,5-Diethynylpyridine CAS RN: 67227-90-1	D4664 250mg 1g 2,5-Diethynylpyridine CAS RN: 137000-75-0	E1091 200mg 2-Ethynylbenzothiazole CAS RN: 40176-80-5	E1092 200mg 1g 7-Ethynylcoumarin CAS RN: 270088-04-5
F1222 25mg 5-FAM-Alkyne CAS RN: 510758-19-7	M3184 1g 5g 1-(4-Morpholinophenyl)-1-phenylprop-2-yn-1-ol CAS RN: 194940-93-7	P2139 25mg 100mg N-Propargylmaleimide CAS RN: 209395-32-4	Polyethylene Glycols (PEG)	
			P2249 25mg 100mg mPEG ₄ -Alkyne CAS RN: 1101668-39-6	

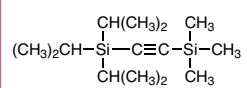
D4580 1g 2-[2-(2-Propyn-1-yloxy)-ethoxy]ethanol CAS RN: 7218-43-1	T3114 1g 5g Triethylene Glycol Monopropargyl Ether CAS RN: 208827-90-1	P2283 25mg Alkyne-PEG ₅ -NHS Ester CAS RN: 1393330-40-9	P2225 1g 5g 2-[2-(2-Propynyloxy)-ethoxy]ethylamine CAS RN: 944561-44-8	E1054 5g 25g Ethylene Glycol 1,2-Bis(2-propynyl) Ether CAS RN: 40842-04-4
D4581 5g 25g Diethylene Glycol Bis(2-propynyl) Ether CAS RN: 126422-57-9	Others	B2393 1g 5g 3-Butyn-2-one CAS RN: 1423-60-5	P1173 5mL 25mL Propargylaldehyde Diethyl Acetal CAS RN: 10160-87-9	M0860 5mL 25mL Methyl Propargyl Ether CAS RN: 627-41-8
G0445 1g 5g Glycidyl Propargyl Ether CAS RN: 18180-30-8	T1455 5g Propargyl <i>p</i> -Toluenesulfonate CAS RN: 6165-76-0	B5163 5mL 25mL <i>tert</i> -Butyldimethyl-(2-propynyloxy)silane CAS RN: 76782-82-6	P2258 1g 5g 2-Propynyl [3-(Triethoxysilyl)-propyl]carbamate CAS RN: 870987-68-1	T2046 5g 3-Butynyl <i>p</i> -Toluenesulfonate CAS RN: 23418-85-1
B5042 1mL 4-(<i>tert</i> -Butyldimethylsilyloxy)-1-butyne CAS RN: 78592-82-2	T1224 5g 1-Butyn-3-yl <i>p</i> -Toluenesulfonate CAS RN: 53487-52-8	P2171 200mg 1g 2-Propynylurea CAS RN: 5221-62-5	B4472 1g 5g <i>N</i> -(<i>tert</i> -Butoxycarbonyl)-propargylamine CAS RN: 92136-39-5	M2618 1g <i>N</i> -Methyl- <i>N</i> -propargylbenzylamine CAS RN: 555-57-7
E1074 200mg 1g Ethynylboronic Acid Pinacol Ester CAS RN: 347389-74-6	E0466 1g 5g Ethynyl <i>p</i> -Tolyl Sulfone CAS RN: 13894-21-8	H1214 5g 25g 6-Heptynenitrile CAS RN: 15295-69-9	P1438 5g 25g Triphenylpropargyl-phosphonium Bromide CAS RN: 2091-46-5	P2335 1g 5g Propargyl Ether CAS RN: 6921-27-3
P2336 1g 5g Propargyl Sulfide CAS RN: 13702-09-5	B5958 1g <i>N</i> -Carbobenzoxypargylamine CAS RN: 120539-91-5	D4963 1g 5g Dimethyl Dipropargylmalonate CAS RN: 63104-44-9	M2768 1g 5g Methyl 4-Ethynylbenzoate CAS RN: 3034-86-4	P2374 1g 5g Propyzamide CAS RN: 23950-58-5
P2603 1g <i>N</i> -Propargyltrifluoroacetamide CAS RN: 14719-21-2	T1239 5mL 25mL 250mL Trimethylsilylacetylene CAS RN: 1066-54-2	T1683 5mL 25mL Triisopropylsilylacetylene CAS RN: 89343-06-6	T2387 1g 5g Triethylsilylacetylene CAS RN: 1777-03-3	
Cu-free Click Reaction Reagents				
B5467 100mg BCN-OH CAS RN: 1263166-90-0	B6275 10mg 100mg BCN-CO-NHS CAS RN: 1426827-79-3	B6215 1set BCN-CO-NHS (2mgx5) CAS RN: 1426827-79-3		

B4062 25mg 100mg  BCN-amine CAS RN: 1263166-93-3	D5677 250mg  DBCO-Acid CAS RN: 1353016-70-2	A2763 25mg 100mg  DBCO-amine CAS RN: 1255942-06-3	D5999 25mg  DBCO-NHS CAS RN: 1353016-71-3	D5922 25mg  DBCO-PEG4-NHS Ester CAS RN: 1427004-19-0
D4739 25mg  DBCO-maleimide CAS RN: 1395786-30-7	D5849 1set  DBCO-maleimide (2mgx5) CAS RN: 1395786-30-7	D5552 25mg  DBCO-S-S-PEG3-Biotin CAS RN: 1430408-09-5	C3916 25mg  CPO-PEG3-DBCO (contains 5% Acetonitrile at maximum)	C3700 5mg 25mg  SCO-PEG2-Maleimide CAS RN: 2141976-23-8
T3949 5mg 25mg  TCO-PEG4-NHS CAS RN: 1621096-79-4	T3948 5mg 25mg  TCO-PEG3-Maleimide CAS RN: 1914971-04-2	T4126 25mg  N-(4E)-TCO-L-lysine CAS RN: 1380349-88-1	T3241 100mg 500mg  5,6,11,12-Tetradehydro-dibenzo[a,e]cyclooctene CAS RN: 53397-65-2	M3494 25mg  Methyltetrazine-NHS Ester CAS RN: 1644644-96-1
Azidation Reagents				
A2457 5g 25g 250g  2-Azido-1,3-dimethylimidazolium Hexafluorophosphate CAS RN: 1266134-54-6	D1672 5g 25g 250g  Diphenylphosphoryl Azide CAS RN: 26386-88-9	A1786 5g 25g 100g  4-Acetamidobenzenesulfonyl Azide CAS RN: 2158-14-7	T3434 1g 5g  2,4,6-Triisopropylbenzenesulfonyl Azide (wetted with ca. 10% Water) CAS RN: 36982-84-0	D2580 25g Dodecylbenzenesulfonyl Azide (soft type) (mixture) CAS RN: 79791-38-1
Ethynylation Reagents				
E0467 1g  Ethynyl(phenyl)iodonium Tetrafluoroborate CAS RN: 127783-34-0	P1239 1g  Trimethylsilylethynyl(phenyl)iodonium Tetrafluoroborate CAS RN: 127783-36-2	T3272 1g 5g  TMS-EBX CAS RN: 181934-29-2	T3039 200mg 1g  TIPS-EBX CAS RN: 181934-30-5	T3590 200mg  1-[2-(Triisopropylsilyl)ethynyl]-3,3-bis(trifluoromethyl)-1,2-benziodoxole CAS RN: 181934-34-9
T1239 5mL 25mL 250mL  Trimethylsilylacetylene CAS RN: 1066-54-2	T2387 1g 5g  Triethylsilylacetylene CAS RN: 1777-03-3	T1683 5mL 25mL  Triisopropylsilylacetylene CAS RN: 89343-06-6	B4365 5g 25g  (tert-Butyldimethylsilyl)acetylene CAS RN: 86318-61-8	M0180 25mL 500mL  2-Methyl-3-butyne-2-ol CAS RN: 115-19-5

B1090 5g 25g

BTMSA

CAS RN: 14630-40-1

T3271 1mL 5mLTriisopropyl[(trimethylsilyl)-
ethynyl]silane

CAS RN: 107474-02-2

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