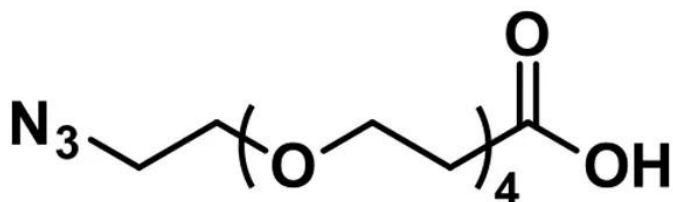




AZIDO-DPEG® 4-ACID

SKU: QBD-10502



DESCRIPTION

Azido-dPEG® 4-acid, product number QBD-10502, is a click chemistry crosslinking reagent. The azide moiety on one end of the molecule is useful for copper(I)- or ruthenium-catalyzed click chemistry or copper-free click chemistry. Between the azide moiety and the propanoic acid moiety on the other end of the molecule is a single molecular weight, discrete polyethylene glycol (dPEG®) spacer. The propanoic acid moiety can be coupled to a primary or secondary amine by an acylation reaction. The azide also functions as a masked amine. In this application, the carboxylic acid end reacts first with an amine to form a peptide bond, followed by reduction of the azide to an amine for further reaction.

Activation of the propanoic acid moiety with an acylating agent enables conjugation of azido-dPEG® 4-acid to a primary or secondary amine. Popular acylating agents include such as N-hydroxysuccinimide (NHS); 2,3,5,6-tetrafluorophenol (TFP); or 2,3,4,5,6-pentafluorophenol (PFP). Alternatively, 1-Ethyl-3-(3-dimethylaminopropyl) carbodiimide (EDC) or another suitable carbodiimide can be used to couple the acid moiety directly to an amine without prior activation.

SPECIFICATIONS

CAS Number	1257063-35-6
Molecular Weight	291.30; single compound

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

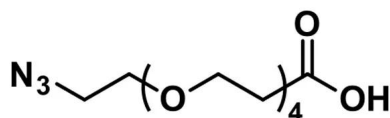


Chemical Formula	C ₁₁ H ₂₁ N ₃ O ₆
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 16 atoms and 17.7 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). dPEG® pegylation compounds are generally hygroscopic and should be treated as such. This will be less noticeable with liquids, but the solids will become tacky and difficult to manipulate, if care is not taken to minimize air exposure.
Shipping Instructions	Ambient

DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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