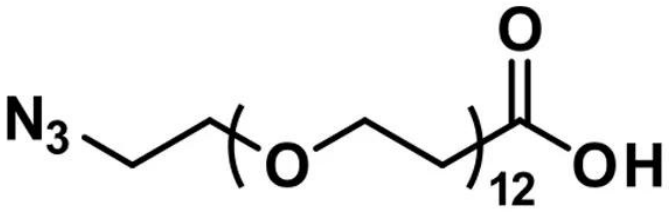
www.vectorlabs.com
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Telephone: (650) 697-3600

AZIDO-DPEG®$_{12}$-ACID

SKU: QBD-10513



DESCRIPTION

Azido-dPEG®12-acid, product number QBD-10513, is a click chemistry crosslinking reagent functionalized with an azide group and a propionic acid group on opposite ends of a linear spacer. A water-soluble, medium-length (40 atoms), single molecular weight, discrete polyethylene glycol (dPEG®) spacer separates the two groups. The azide moiety reacts in copper(I)-catalyzed, ruthenium-catalyzed, and strain promoted azide-alkyne cycloadditions (CuAAC, RuAAC, and SPAAC, respectively). Alternatively, the azide functions as a masked amine. In this role, the carboxylic acid end of the molecule must couple with an amine to form an amide bond. The azide group is then reduced to a primary amine to permit crosslinking with a carboxylic acid group. The propionic acid moiety can be coupled to a primary or secondary amine by an acylation reaction.

The carboxylic acid group of Azido-dPEG®12-acid can be coupled directly to a free amine using EDC or some other carbodiimide. Also, forming the active ester of the acid using N-hydroxysuccinimide (NHS) or 2,3,5,6-tetrafluorophenol (TFP) before reacting with free amines is a useful course of action.

SPECIFICATIONS

CAS Number	1167575-20-3
Molecular Weight	643.72; single compound
Chemical Formula	$C_{27}H_{53}N_3O_{14}$

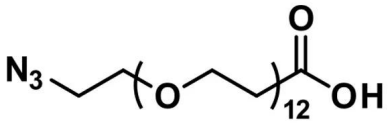
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 40 atoms and 46.4 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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