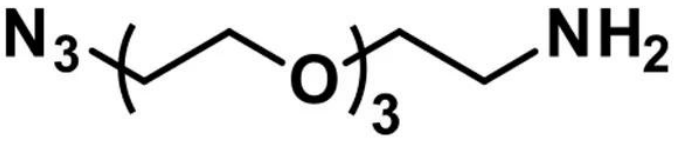
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AZIDO-DPEG®₃-AMINE

SKU: QBD-10522



DESCRIPTION

Azido-dPEG®3-amine, product number QBD-10522, is a carbonyl-reactive, biocompatible crosslinking reagent that can participate in multiple types of reactions. The product consists of an azide group and an amine group on opposite ends of a single molecular weight, discrete polyethylene glycol (dPEG®) chain. Alkynes react with the azido group in metal-catalyzed or strain-promoted click chemistry to yield triazole derivatives. Moreover, the azide group functions as a masked amine that reduces to a primary amine via a suitable reducing agent. Furthermore, Azido-dPEG®3-amine can participate in a Staudinger ligation with appropriate phosphine derivatives to create a water-soluble product.

Several patents and scientific publications specifically cite the use of Azido-dPEG®3-amine. The amphiphilic dPEG® product adds hydrodynamic volume and imparts water solubility to any compound to which it is conjugated. Also, because the terminal azide group functions in multiple different types of reactions, Azido-dPEG®3-amine can act as either a heterobifunctional, click chemistry crosslinker or a monoprotected homobifunctional crosslinking reagent.

The published uses of Azido-dPEG®3-amine include the following:
Detection of SK2 Channels on Hippocampal Neurons
Preparation of probes uses to study sickle cell disease;
Construction of tunable supramolecular assemblies;
Development of a long-acting drug-delivery system of the peptidic somatostatin agonist octreotide; and,
Design and application of a biotinylated probe of calenduloside E.

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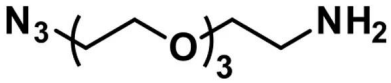
SPECIFICATIONS

CAS Number	134179-38-7
Molecular Weight	218.25; single compound
Chemical Formula	$C_8H_{18}N_4O_3$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, or DMSO.
Spacers	dPEG® Spacer is 14 atoms and 15.4 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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