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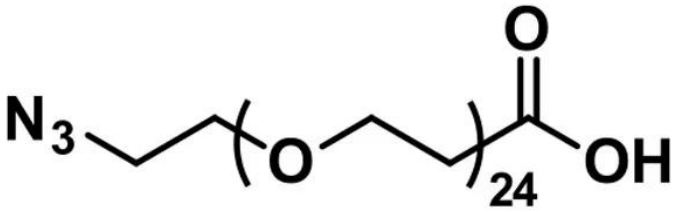
AZIDO-DPEG®$_{24}$-ACID

SKU: QBD-10514



DESCRIPTION

Azido-dPEG®24-acid, product number QBD-10514, is a click chemistry reagent consisting of an azide and a propionic acid group on opposite ends of a long (76 atoms), hydrophilic, single molecular weight polyethylene glycol spacer with a discrete chain length (dPEG®). The azide moiety acts as an alkyne partner for metal-catalyzed (i.e., Cu(I), Ru) or strain-promoted click chemistry, or as a masked amine. The propanoic acid moiety can be coupled to a primary or secondary amine through an acylation reaction.

Our dPEG® products are single molecular weight compounds. Unlike traditional, polymeric polyethylene glycol (PEG), dPEG® products contain a single molecular weight PEG chain with a discrete chain length. The use of dPEG® instead of traditional polymer PEG allows accurate characterization of conjugates without sacrificing any of the benefits of PEG.

Activation of the propionic acid moiety with an acylating agent enables conjugation of azido-dPEG®24-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.

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

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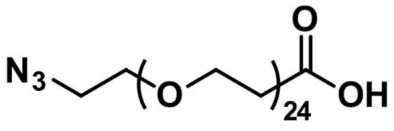
SPECIFICATIONS

CAS Number	1167575-20-3
Molecular Weight	1172.35; single compound
Chemical Formula	$C_{51}H_{101}N_3O_{26}$
Purity	> 97%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 76 atoms and 90.4 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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