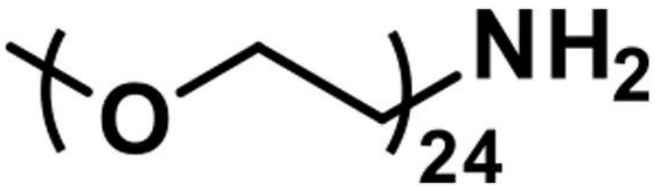
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

M-DPEG®$_{24}$-AMINE

SKU: QBD-10318



DESCRIPTION

m-dPEG®24-amine, product number QBD-10318, is a non-immunogenic, water-soluble chemical modification reagent. The product contains a single molecular weight, discrete-length polyethylene glycol (dPEG®) chain terminated on one end with a methyl group and on the other end with a reactive primary amine. The amino group reacts with carboxylic acids (and their active esters), aldehydes, and ketones. Reacting the amino group with aldehydes or ketones forms a labile imine (Schiff base). Reacting carboxylic acids or their active esters with m-dPEG®24-amine forms stable amide bonds. Uses for this product include passivating surfaces and coating biomolecules.

Biomolecules modified with m-dPEG®24-amine display enhanced water solubility, increased hydrodynamic volume, and reduced immunogenicity. This product reacts quickly with active esters of carboxylic acids (for example, NHS esters and TFP esters) to form amide bonds. Also, it forms amide bonds directly with carboxylic acids using the carbodiimide EDC.

Several publications in the scientific literature report the successful use of m-dPEG®24-amine. Published reports using this product include:
development of molecular pincers as protein sensors;
development and modification of luminescent Iridium (III) polypyridine complexes for use as biological labels and probes;
development of probes for continuous real-time modification of renal function; and,
development of a membrane filter system with antifouling properties for water purification.

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

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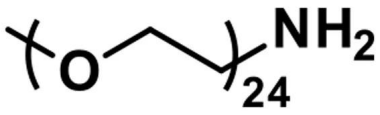
SPECIFICATIONS

CAS Number	32130-27-1
Molecular Weight	1088.32; single compound
Chemical Formula	$C_{49}H_{101}NO_{24}$
Purity	> 97%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 74 atoms and 86.1 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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