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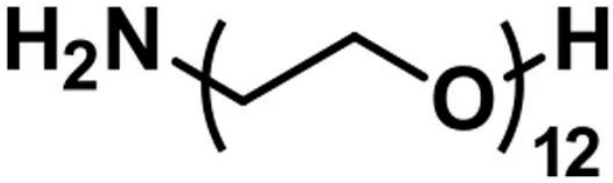
AMINO-DPEG®$_{12}$-OH

SKU: QBD-10170



DESCRIPTION

Amino-dPEG®12-OH, product number QBD-10170, also known as Amino-dPEG®12-alcohol, is a medium-length, monodispersed PEGylation reagent designed to modify surfaces and biomolecules. One end of the molecule terminates with a primary amine, while the other end terminates with a primary alcohol group. This extremely hydrophilic PEGylation reagent modifies biomolecules and surfaces that possess carboxylate groups. If desired, the terminal alcohol moiety can be transformed with appropriate functional groups to further modify the biomolecule or surface.

Amino-dPEG®12-OH has many possible uses. The most common uses are modifying biomolecules and passivating surfaces with a highly hydrophilic coating. The primary amine on one end of the dPEG® linker reacts with carboxylates, aldehydes, and ketones. Conjugations with this molecule most commonly use the amine-carboxylate reaction because it forms stable amide bonds. A carbodiimide such as EDC directly connects the amino group to a carboxylate. Alternatively, activation of carboxylate as the NHS or TFP ester followed by reaction under slightly basic conditions also permits conjugation of the carboxylate and amino moieties.

The amino group also reacts with aldehydes and ketones to form Schiff bases. Schiff bases are reducible to secondary amines for improved stability.

The published uses of Amino-dPEG®12-OH include the following:
Stabilizing artificial membranes;
Real-time imaging of in vivo protease expression;

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Developing a confocal imaging system to monitor passive membrane transport; and, Development of a label-free pyrophosphate detector.

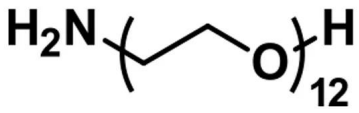
SPECIFICATIONS

CAS Number	933789-97-0
Molecular Weight	545.66; single compound
Chemical Formula	$C_{24}H_{51}NO_{12}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, DMAC or DMSO or water.
Spacers	dPEG® Spacer is 38 atoms and 42.7 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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