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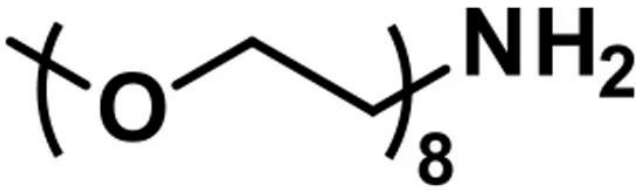
M-DPEG®₈-AMINE

SKU: QBD-10278



m-dPEG®8-amine, product number QBD-10278, is a methyl-terminated PEG amine compound. The PEG is a water-soluble, single molecular weight PEG product with a discrete chain length (dPEG®). Carboxylic acids and their active esters react with the amino terminus to form amide bonds. Furthermore, the amino terminus reacts with aldehydes and ketones, forming reducible Schiff bonds. Uses for m-dPEG®8-amine include modification of acid-functionalized surfaces and free carboxylic acid groups on biomolecules.

In published scientific literature, the following applications have utilized m-dPEG®8-amine:
Development of probes for continuous real-time modification of renal function;
Surface functionalization of magnetic iron nanoparticles;
PEGylation of PAMAM dendrimers to modify cytotoxicity and transfection efficiency; and,
Surface coating of carbon nanotubes used for thermally controllable extraction and separation of peptides.

Specifications

Unit Size	100 mg, 1000 mg
Molecular Weight	383.48; single compound
Chemical formula	$C_{17}H_{37}NO_8$
CAS	869718-81-0
Purity	> 98%
Spacers	dPEG® Spacer is 26 atoms and 29.7 Å
Shipping	Ambient

For research use only. Not intended for animal or human therapeutic or diagnostic use.

Typical solubility properties (for additional information contact Customer Support)	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Storage and handling	-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.
