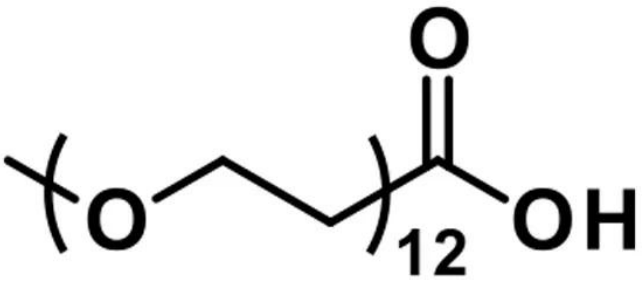
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

M-DPEG®$_{12}$-ACID

SKU: QBD-10328



DESCRIPTION

m-dPEG®12-acid, product number QBD-10328, is a medium-length (36 atoms), methyl-capped, discrete chain length polyethylene glycol (dPEG®) spacer that terminates in a propionic acid group. The terminal propionic acid moiety can be coupled directly to free amines using EDC or another carbodiimide. Otherwise, the reactive end can be converted into an active ester that can then be conjugated to free amines. N-hydroxysuccinimide (NHS), 2,3,5,6-tetrafluorophenol (TFP), and 2,3,4,5,6-pentafluorophenol (PFP) typically are used for this purpose.

m-dPEG®12-acid can modify amine-functionalized surfaces (carbon nanotubes, other nanoparticles, quantum dots, etc.) or free amines on biomolecules. In published scientific reports, m-dPEG®12-acid has been used to create optical probes and to study the system pharmacokinetics of poly-L-lysine dendrimers. When used to coat surfaces or modify biomolecules, m-dPEG®12-acid reduces or eliminates non-specific binding and increases water solubility. Please note that modifying the surface amines of biomolecules with this uncharged, methyl-capped dPEG® spacer may alter the overall charge of the resulting conjugates.

SPECIFICATIONS

CAS Number	117786-94-4

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

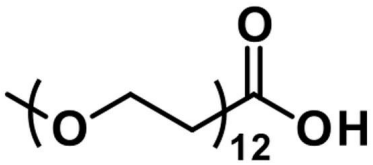
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Molecular Weight	588.68; single compound
Chemical Formula	$C_{26}H_{52}O_{14}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 38 atoms and 44.0 Å
Storage Instructions	-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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