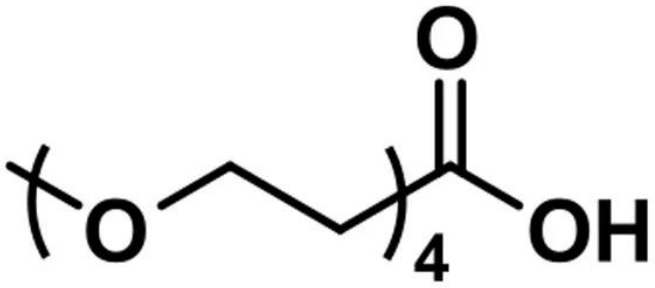
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

M-DPEG®₄-ACID

SKU: QBD-10234



DESCRIPTION

m-dPEG®4-acid, product number QBD-10234, is a short, methyl-capped, discrete chain length polyethylene glycol (dPEG®) spacer. The reactive end of the molecule terminates in a propionic acid group. The terminal propionic acid moiety can be coupled directly to free amines using EDC or another carbodiimide. Alternatively, the reactive end can be functionalized with N-hydroxysuccinimide (NHS); 2,3,5,6-tetrafluorophenol (TFP); 2,3,4,5,6-pentafluorophenol (PFP); or some other activating agent for reaction with amines.

m-dPEG®4-acid can modify amine-functionalized surfaces (carbon nanotubes, other nanoparticles, quantum dots, etc.) or free amines on biomolecules. When used to coat surfaces or modify biomolecules, m-dPEG®4-acid reduces, and often eliminates, non-specific binding and increases hydrophilicity. Please note that modification of surface amines on biomolecules with this uncharged, methyl-capped dPEG® spacer may alter the overall charge of the resulting conjugates.

In published scientific reports, m-dPEG®4-acid has been used in the following applications:
surface modification of polyelectrolyte multilayers;
thin films used for the detection of viable pathogenic microorganisms; and,
peptide modification.

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

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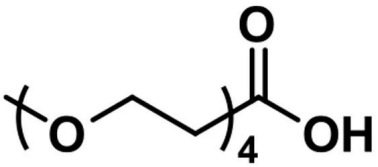
SPECIFICATIONS

CAS Number	67319-28-2
Molecular Weight	236.26; single compound
Chemical Formula	N/A
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 14 atoms and 15.6 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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