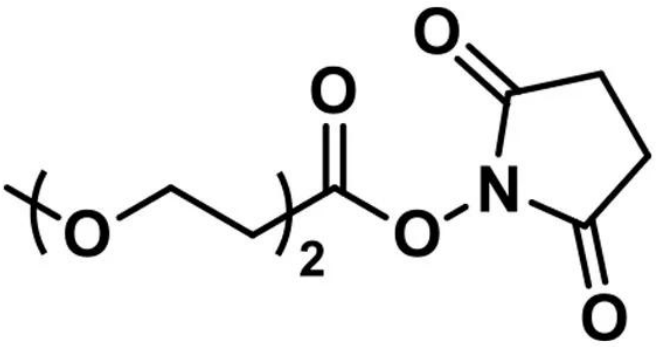
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

M-DPEG®₂-NHS ESTER

SKU: QBD-10327



DESCRIPTION

m-dPEG®2-NHS ester, product number QBD-10327, is a short (8 atoms, 8.5 Å), methyl-terminated, discrete-length polyethylene glycol (dPEG®) spacer, functionalized as the N-hydroxysuccinimidyl (NHS) ester and designed for modification of surfaces containing accessible free amines. NHS reacts optimally with free amines at pH 7.0 – 7.5. The active ester's rate of hydrolysis to the carboxylic acid accelerates with increasing pH. Please note that modification of surface amines on biomolecules (e.g., proteins and peptides) with this uncharged, methyl-capped dPEG® spacer may alter the overall charge of the resulting conjugates.

One potential application for this product include charge modification of a biomolecule by modifying positively charged free amines with the uncharged m-dPEG®2-NHS ester. Another potential application is to use m-dPEG®2-NHS ester in a mixed surface modification (for example, an amine-coated glass or silica surface) where the shorter dPEG® product passivates the surface while longer dPEG® products contain reactive groups for additional functionalization of the surface. Other potential or published applications for this product include the following:
surface modification of silica-shelled quantum dots;
coating of carbon nanotubes and other hydrophobic surfaces;
N-terminal peptide modification; and
various imaging applications.

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

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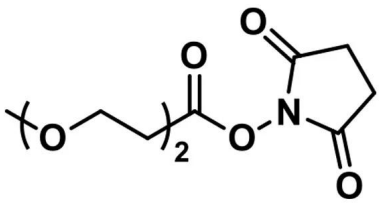
SPECIFICATIONS

CAS Number	1127247-34-0
Molecular Weight	245.23; single compound
Chemical Formula	$C_{10}H_{15}NO_6$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 8 atoms and 8.5 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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