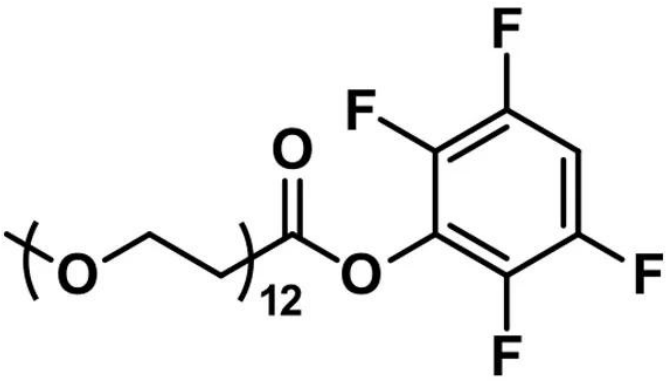
www.vectorlabs.com
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Telephone: (650) 697-3600

M-DPEG®₁₂-TFP ESTER

SKU: QBD-10306



DESCRIPTION

m-dPEG®12-TFP ester, product number QBD-10306, is a medium-length (38 atoms, 44.0 Å), methyl-terminated, discrete-length polyethylene glycol (dPEG®) spacer. With a reactive end of 2,3,5,6-tetrafluorophenyl (TFP) ester, m-dPEG®12-TFP ester is designed to modify surfaces having accessible free amines.

Free amines react optimally with TFP esters in aqueous media at pH 7.5 – 8.0. TFP esters are more hydrolytically stable in water and aqueous buffers than NHS esters. Nevertheless, in aqueous media, the rate at which the ester hydrolyzes to the carboxylic acid increases as the pH increases. Moreover, it should be noted that reacting 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.

There are numerous applications that could successfully employ m-dPEG®12-TFP ester, including the following:
vaccine development;
cell surface engineering;
imaging applications to reduce background and non-specific interactions;
construction of dendrimers;
coating of nanoparticles, quantum dots, and carbon nanotubes;

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improving PK and BD of biomolecules; and, preventing enzyme aggregation.

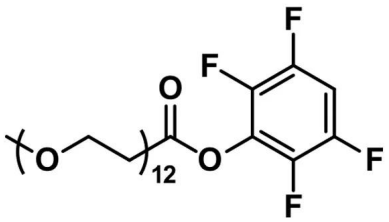
SPECIFICATIONS

CAS Number	N/A
Molecular Weight	736.75; single compound
Chemical Formula	$C_{32}H_{52}F_4O_{14}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
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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