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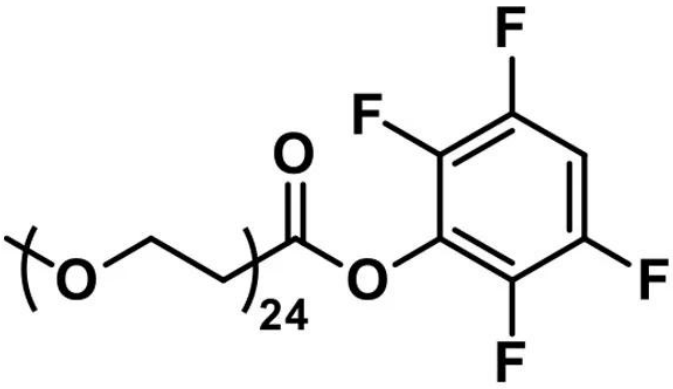
M-DPEG®$_{24}$-TFP ESTER

SKU: QBD-10303



DESCRIPTION

m-dPEG®24-TFP ester, product number QBD-10303, is a long (74 atoms, 86.2 Å), methyl-terminated, discrete-length polyethylene glycol (dPEG®) spacer. With a reactive end of 2,3,5,6-tetrafluorophenyl (TFP) ester, m-dPEG®24-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.

Many applications could potentially use m-dPEG®24-TFP ester successfully. Among those applications are:
cell surface engineering;
PK, BD, and immunogenicity profile improvements for biomolecules;
imaging applications by reducing background and non-specific binding;
dendrimer construction;

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nanoparticle, quantum dot, and carbon nanotube surface coating; and, prevention of protein aggregation.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1265.38; single compound
Chemical Formula	$C_{56}H_{100}F_4O_{26}$
Purity	> 97%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 74 atoms and 86.2 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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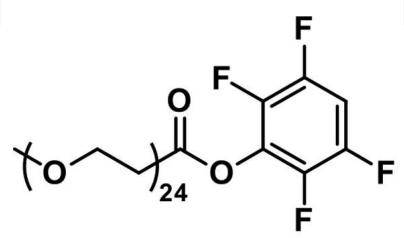

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