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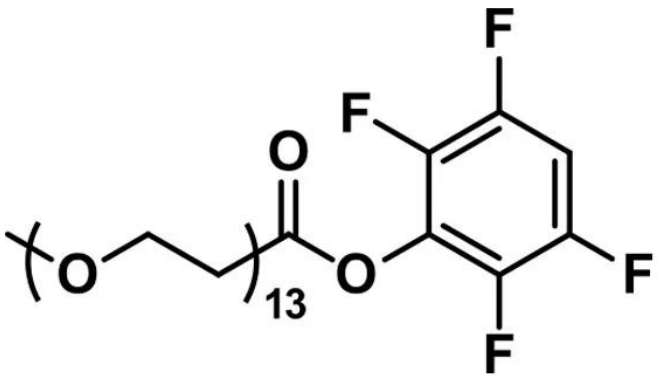
M-DPEG®₁₃-TFP ESTER

SKU: QBD-11087



DESCRIPTION

m-dPEG®13-TFP ester, product number QBD-11087, is a medium-length (41 atoms, 47.3 Å), methyl-terminated, discrete-chain-length polyethylene glycol (dPEG®) spacer functionalized with a 2,3,5,6-tetrafluorophenyl (TFP) ester for reaction with free amines. m-dPEG®13-TFP ester is just one member of an comprehensive line of methyl-terminated dPEG® products that includes dPEG® spacers containing 2 to 49 ethylene glycol units.

TFP esters react optimally with free amines at pH 7.5 – 8.0 and are generally more hydrolytically stable in water and aqueous buffers than NHS esters. In aqueous media, the hydrolytic rate of the ester to the carboxylic acid increases with increasing pH. 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 employ m-dPEG®13-TFP ester, including the following:
vaccine development (modifying the immunogenicity of biomolecules);
dendrimer construction;
PK and immunogenicity improvements for dendrimers, peptides, and proteins;
cell surface engineering;
peptide synthesis and modification to improve water solubility or decrease immunogenicity;

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coating of nanoparticles, quantum dots, and carbon nanotubes; and prevention of protein aggregation.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	780.793; single compound
Chemical Formula	$C_{34}H_{56}F_4O_{15}$
Purity	> 98%
Unit Size	100mg, 1000mg
Solubility	Methylene Chloride, Acetone, Methanol, Acetonitrile, Ethyl Acetate, DMSO, DMAC, or DMF.
Spacers	dPEG® Spacer is 41 atoms and 47.3 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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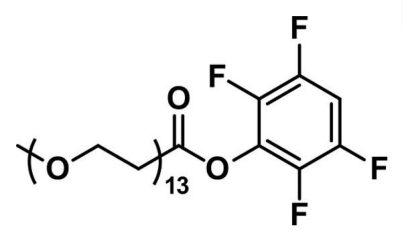

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