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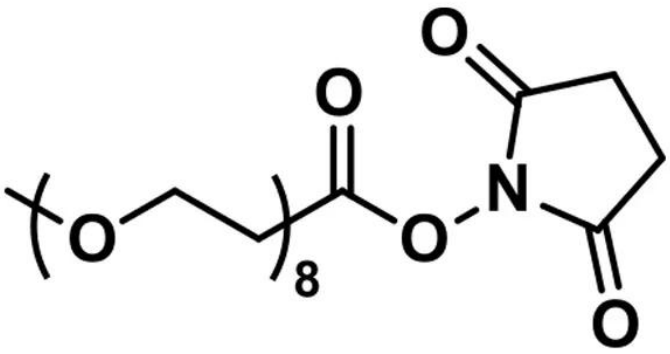
M-DPEG®₈-NHS ESTER

SKU: QBD-10260



m-dPEG®8-NHS ester, product number QBD-10260, is a medium-length (26 atoms, 29.8 Å), methyl-terminated, discrete-length polyethylene glycol (dPEG®) spacer functionalized with an N-hydroxysuccinimidyl (NHS) ester for reactions with free amines. NHS reacts optimally with free amines at pH 7.0 – 7.5. The hydrolytic rate of the ester to the carboxylic acid increases 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.

Many applications employ this m-dPEG®8-NHS ester. Published papers using this product include:
imaging applications;
design of a delivery mechanism for an anti-HIV therapeutic peptide;
coating of carbon nanotubes, gold nanoshells, and silica shelled quantum dots;
PK improvement of organophosphorus hydrolase in a therapeutic application;
peptide synthesis; and,
development of antibacterial, cytotoxic dendrimers.
m-dPEG®8-NHS ester, product number QBD-10260, is just one member of an comprehensive line of methyl-terminated dPEG® products. This line includes dPEG® spacers containing 2 to 49 ethylene glycol units.

Specifications

Unit Size	100 mg, 1000 mg

For research use only. Not intended for animal or human therapeutic or diagnostic use.

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Molecular Weight	509.54; single compound
Chemical formula	$C_{22}H_{39}NO_{12}$
CAS	756525-90-3
Purity	> 97%
Spacers	dPEG® Spacer is 26 atoms and 29.8 Å
Shipping	Ambient
Typical solubility properties (for additional information contact Customer Support)	Methylene chloride, Acetonitrile, DMAC or DMSO.
Storage and handling	-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.