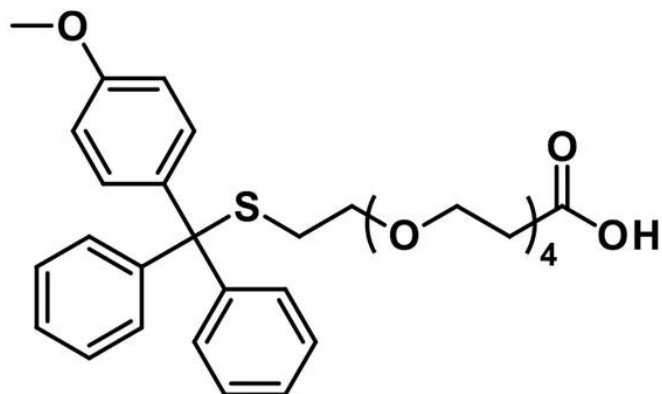




METHOXYTRITYL-S-DPEG®4-ACID

SKU: QBD-10301



DESCRIPTION

Methoxytrityl-S-dPEG®4-acid, product number QBD-10301, permits the introduction of a protected thiol-dPEG® spacer/linker onto a molecule by reaction with a free amine. The methoxytrityl (Mmt) protected thiol deprotects under mild conditions using dilute trifluoroacetic acid (TFA) with a scavenger. This compound is useful in peptide synthesis and modification, where a free thiol must be introduced into the parent molecule.

Product number QBD-10301 permits our customers to insert a short (16 atom, 18.3Å) dPEG® into a peptide chain using familiar solid phase or solution phase chemistry. Upon activation, Methoxytrityl-S-dPEG®4-acid reacts with any free amine. This allows for a broad range of situations where this product can be employed to convert an amine to a thiol. The dPEG® can be inserted at the N-terminus of a peptide chain or on any amino acid side chain with an exposed free amine. In addition, the short dPEG® spacer can be used simply to provide additional distance in a synthetic construct where steric hindrance is a problem. The amphiphilic nature of dPEG® means that the construct will gain some degree of water solubility while remaining soluble in organic solvent. The Mmt protecting group removes relatively easily with a dilute solution of TFA that also contains a scavenger such as triethylsilane (TES) or triisopropylsilane (TIPS). Once the thiol group is deprotected, it can be reacted with another thiol to form a disulfide bond or with any thiol-reactive group such as maleimide, bromoacetamide,

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alkene (thiol-ene reaction) or alkyne (thiol-yne reaction).

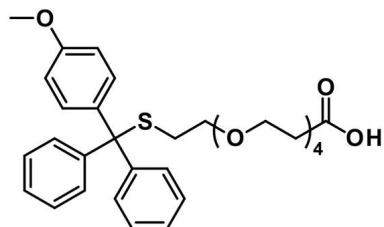
SPECIFICATIONS

CAS Number	1263047-31-9
Molecular Weight	554.70; single compound
Chemical Formula	C ₃₁ H ₃₈ O ₇ S
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 16 atoms and 18.3 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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