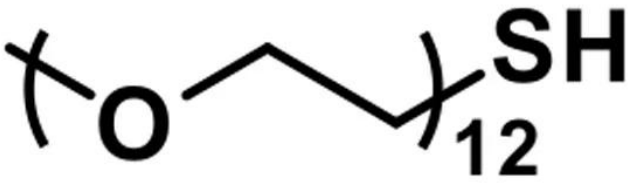
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

M-DPEG®₁₂-THIOL

SKU: QBD-10794



DESCRIPTION

m-dPEG®12-thiol, product number QBD-10794, is a medium-length (38 atoms) monodisperse PEGylation reagent designed to modify gold and silver surfaces or biomolecules that contain free, surface-accessible thiols. One end of the spacer terminates with a methyl group, while the other end terminates with a sulfhydryl. The sulfhydryl group forms dative bonds with gold or silver, disulfides with free thiols, and thioether bonds with maleimide and bromoacetate groups.

This product is useful for the passivation of gold or silver surfaces. The hydrophilic, non-immunogenic dPEG® spacer eliminates non-specific interactions with the metal surfaces.

If reacted with free thiols on biomolecules, m-dPEG®12-thiol forms disulfide bonds. Moreover, the resulting conjugates display improved water solubility and increased hydrodynamic volume. Furthermore, conjugation of this product with biomolecules potentially reduces or eliminates non-specific interactions and immunogenicity.

SPECIFICATIONS

CAS Number	134874-49-0
Molecular Weight	576.74; single compound
Chemical Formula	$C_{25}H_{52}O_{12}S$
Purity	> 98%

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

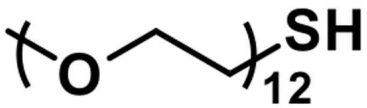
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Unit Size	100mg, 1000mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 38 atoms and 44.2 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture 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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