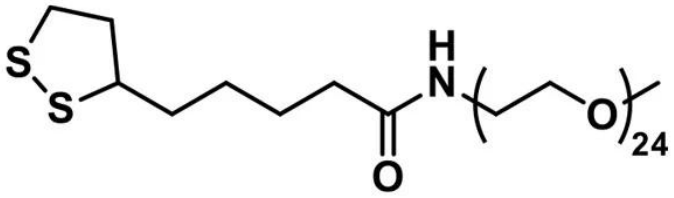
www.vectorlabs.com
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M-DPEG®24-LIPOAMIDE

SKU: QBD-10804



DESCRIPTION

m-dPEG®24-Lipoamide, product number QBD-10804, is a long (82 atoms), amphiphilic, methyl-terminated, monodisperse PEG product functionalized with lipoic acid and designed to modify metal surfaces such as gold or silver. The primary application of this product is the stable passivation of metal surfaces through the use of lipoic acid, which forms two dative bonds with gold or silver, conjugated to a short, monodispersed PEG spacer. Because the terminal dithiolane unit forms two dative bonds with metals, it is consequently more stable on the metal surface than comparable compounds containing a single sulfhydryl group that can create a dative bond. The amphiphilic, non-antigenic, monodispersed PEG spacer imparts water solubility to and increases the hydrodynamic volume of conjugated molecules and surfaces.

m-dPEG®24-lipoamide was designed for stable passivation of gold or silver surfaces. For useful surface coating, it may prove helpful to create a mixed layer consisting of m-dPEG®24-lipoamide and another, longer dPEG® product with a lipoamido group on one end and reactive, affinity, or other functional groups on the opposite end. Thus, the shorter m-dPEG®24-lipoamide will form a uniform coating of methyl-terminated PEG above the metal surface, and the longer dPEG® product will rise above the dPEG® coating intermittently throughout the surface layer.

SPECIFICATIONS

CAS Number	1334172-68-7
Molecular Weight	1276.63; single compound

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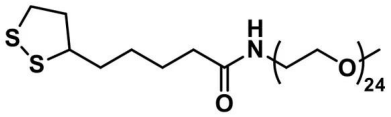
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Chemical Formula	$C_{57}H_{113}NO_{25}S_2$
Purity	> 98%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride, DMAC, DMSO or moderately soluble in water.
Spacers	dPEG® Spacer is 82 atoms and 96.2 Å
Storage Instructions	-20°C; Always let come to room 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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