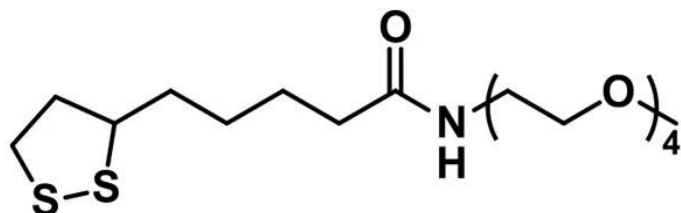




M-DPEG®4-LIPOAMIDE

SKU: QBD-10799



DESCRIPTION

m-dPEG®4-Lipoamide, product number QBD-10799, is a short (21 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.

m-dPEG®4-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®4-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 short m-dPEG®4-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

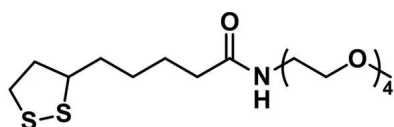
CAS Number	1334172-66-5
Molecular Weight	395.58; single compound
Chemical Formula	C ₁₇ H ₃₃ NO ₅ S ₂

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



DOCUMENTS

- ## GALLERY IMAGES



<https://vectorlabs.com/products/m-dpeg4-lipoamide/>