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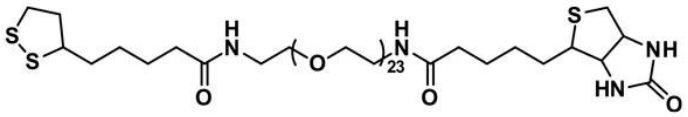
BIOTIN-DPEG®$_{23}$-LIPOAMIDE

SKU: QBD-10828



DESCRIPTION

Biotin-dPEG®23-lipoamide, product number QBD-10828, is a water-soluble PEGylation reagent designed to facilitate the biotinylation of a gold, silver, or other metal surface through a long (73 atoms, 87.6 Å) lipoic acid-functionalized single molecular weight, discrete PEG (dPEG®) spacer. The lipoic acid moiety forms dative bonds with gold, silver, and other metals, while the flexible, hydrophilic dPEG® spacer increases the hydrodynamic volume of the conjugate surface. This reduces or eliminates opsonization of the conjugate, contributing to a longer serum circulation time in vivo. Moreover, the water-soluble dPEG® linker improves the hydrophilicity of the biotin label, which is poorly soluble in water, reducing aggregation, precipitation, and non-specific interactions due to hydrophobicity. Potential applications for this product include pull-down assays, affinity chromatography, and biotin-based antibody pretargeting for radioimmunotherapy.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1487.92; single compound
Chemical Formula	$C_{66}H_{126}N_4O_{26}S_3$
Purity	> 96%
Unit Size	100mg, 1000mg
Solubility	Methylene Chloride, DMSO, DMAC, Acetonitrile or DMF.
Spacers	dPEG® Spacer is 73 atoms and 87.6 Å

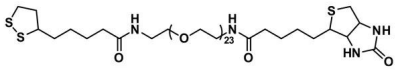
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

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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