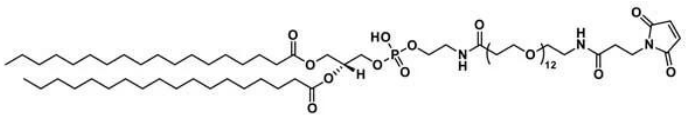
www.vectorlabs.com
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Telephone: (650) 697-3600

MAL-DPEG®$_{12}$-DSPE

SKU: QBD-11028



DESCRIPTION

MAL-dPEG®12-DSPE, product number QBD-11028, is designed to facilitate payload delivery (e.g., a targeting peptide or cytotoxin) in liposomes and micelles. The medium-length (46 atoms, 53.3 Å), single molecular weight, discrete-chain-length polyethylene glycol (dPEG®) spacer is conjugated to 1, 2-Distearoyl-sn-glycero-3-phosphoethanolamine (DSPE) for liposomal or micellar insertion and functionalized with a sulfhydryl-reactive maleimidopropyl moiety that forms thioether bonds with a payload containing a free thiol group. The free maleimide group may also facilitate cellular uptake of liposomes or micelles containing the moiety through thiol-mediated membrane trafficking.

Unlike traditional polymer PEG products, which consist of an intractable mixture of different chain lengths and molecular weights of PEG and have an irreproducible purity profile, Vector Laboratories dPEG® products are high purity single molecules containing one PEG chain length and molecular weight with a reproducible purity profile.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1498.89; single compound
Chemical Formula	$C_{75}H_{140}N_3O_{24}P$
Purity	> 98%
Unit Size	25 mg, 100mg
Solubility	Methylene Chloride or MTBE.
Spacers	dPEG® Spacer is 46 atoms and 53.3 Å, Avg.

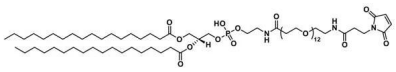
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

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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