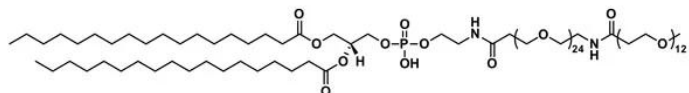


M-DPEG®₁₂-AMIDO-DPEG®₂₄-DSPE

SKU: QBD-11094



m-dPEG®₁₂-amido-dPEG®₂₄-DSPE, product number QBD-11094, modifies the lipid 1,2-Distearoyl-sn-glycero-3-phosphoethanolamine (DSPE) with a long (114 atoms, 132.3 Å), methoxy-terminated, single molecular weight, discrete polyethylene glycol (dPEG®) spacer. The spacer length is equivalent to a monodispersed mPEG36. This product is designed to protect liposomes and micelles from opsonization and elimination by the reticuloendothelial system (RES). The m-dPEG® spacer offers protection from opsonization comparable to the traditional polymer mPEG2000, while the slightly smaller spacer size compared to mPEG2000 allows for more efficient uptake into cells. The methyl-capped dPEG® spacer has a neutral charge.

Vector Laboratories' dPEG® products are highly pure single molecular weight compounds with a discrete chain length. Traditional PEG compounds used to coat liposomes and micelles consist of an intractable mixture of different chain lengths and molecular weights. The non-uniform polymeric mixture leads to irreproducible purity profiles, unlike dPEG® compounds.

Specifications

Unit Size	25 mg, 100mg
Molecular Weight	2447.07; single compound
Chemical formula	C ₁₁₈ H ₂₃₃ N ₂ O ₄₆ P
CAS	N/A
Purity	> 98%
Spacers	dPEG® Spacer is 114 atoms and 132.3 Å
Shipping	Ambient
Typical solubility properties (for additional information contact Customer Support)	Methylene Chloride, Methanol, Acetonitrile, or DMF.

For research use only. Not intended for animal or human therapeutic or diagnostic use.

Storage and handling

-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.

For research use only. Not intended for animal or human therapeutic or diagnostic use.