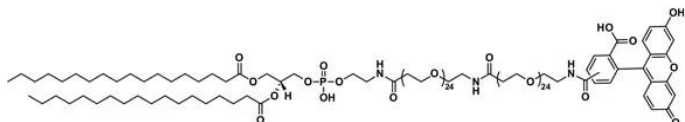




CARBOXYFLUORESC EIN-DPEG®₂₄-AMIDO-DPEG®₂₄-DSPE

SKU: QBD-11385



DESCRIPTION

Carboxyfluorescein-dPEG®₂₄-amido-dPEG®₂₄-DSPE, product number QBD-11385, consists of the lipid 1,2-Distearoyl-SN-glycero-3-phosphoethanolamine (DSPE) conjugated to a long (152 atoms, 180.0 Å), single molecular weight, discrete polyethylene glycol (dPEG®) spacer that has been functionalized with 5(6)-carboxyfluorescein. The dPEG® spacer consists of two dPEG®₂₄ linkers joined by an amide bond, making the spacer effectively a dPEG®₄₈ product with a molecular weight of slightly more than 2,000 Daltons (i.e., equivalent to a PEG2000). The product is designed for use in liposomes and micelles where a fluorescent dye label is needed. The carboxyfluorescein dye has an absorbance maximum (λ_{ex}) of 497 nm and an emission maximum (λ_{em}) of 524 nm, with an extinction coefficient of 63303 M⁻¹ cm⁻¹ at 497 nm, and an A280 correction factor of 0.18.

Liposomes and micelles are often coated with traditional, polymeric PEG2000 (a polymer PEG having an average molecular weight of 2,000 Daltons) at a density of about 5 – 8 mole%. A polymer PEG2000 consists of an intractable mixture of different chain lengths and molecular weights of PEG, making analysis difficult. Unlike a traditional, non-uniform (that is, dispersed) PEG2000, QBD-11385, carboxyfluorescein-dPEG®₂₄-amido-dPEG®₂₄-DSPE is a single, uniform product. Carboxyfluorescein-dPEG®₂₄-amido-dPEG®₂₄-DSPE is designed to provide a convenient dye label for liposomes, micelles, and other lipid nanoparticles. This allows labeled liposomes and micelles to be tracked over time.

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



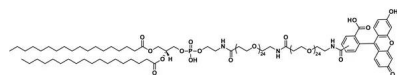
SPECIFICATIONS

CAS Number	N/A
Molecular Weight	3363.04; single compound
Chemical Formula	C ₁₆₄ H ₂₉₄ N ₃ O ₆₄ P
Purity	> 97%
Unit Size	5 mg, 10 mg
Solubility	Methylene Chloride, Methanol, Acetonitrile, DMSO, or Chloroform
Spacers	dPEG® Spacer is 152 atoms and 180.0 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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