http://www.nanocs.net
Tel: 1(800)388-4221
Fax: 1(917)591-2212
Email: info@nanocs.com

TECHNICAL DATA SHEET

DSPE PEG Fluorescein, MW 1000, 2000, 3400, 5000, 10k, 20k

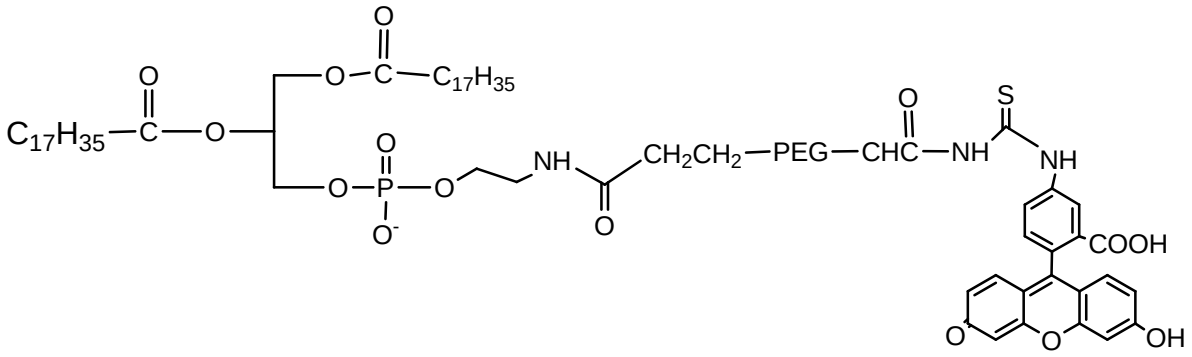
Catalog Numbers: PG2-DSFC-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Fluorescein PEG DSPE, FITC PEG DSPE, DSPE PEG FITC

Description:

Fluorescein PEG DSPE (FITC-PEG-DSPE) is one of Nanocs' fluorescent phospholipid PEG derivatives that can be used for lipid nanoparticle formulation, tracking and detection. DSPE (1,2-distearoyl-sn-glycero-3-phosphoethanolamine) is an 18 carbon saturated phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity and water solubility. Fluorescein labeled DSPE PEG emits strong green fluorescent light at 515 nm upon excited at 495 nm. **Fluorescein PEG DSPE** can be easily incorporated into liposome or other lipid or phospholipid nanoparticles. Strong fluorescent signal from FITC allows quick and easy detection and tracking of labeled species. PEG linker between Fluorescein and DSPE offers good water solubility, flexible linker structure and increased stability.

Product Structure:



Product Specifications:

- Composition: DSPE PEG Fluorescein.
- Appearance: Yellow orange to brownish solid.
- Solubility: >5 mg/mL in hot water, chloroform, DMSO.
- Ex/Em wavelength: 495 nm/515 nm (FITC).

Handling and Use:

DSPE PEG FITC should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit **www.nanocs.net.**

Storage Conditions:

FITC PEG DSPE should be stored at -20 ^{0}C. Desiccate. Protect from light. Re-test material after 12 months.

This product is for research use only and is not intended for use in humans or for diagnostic use.