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**TECHNICAL DATA SHEET**

# DSPE PEG Cy5.5, MW 1000, 2000, 3400, 5000, 10k, 20k

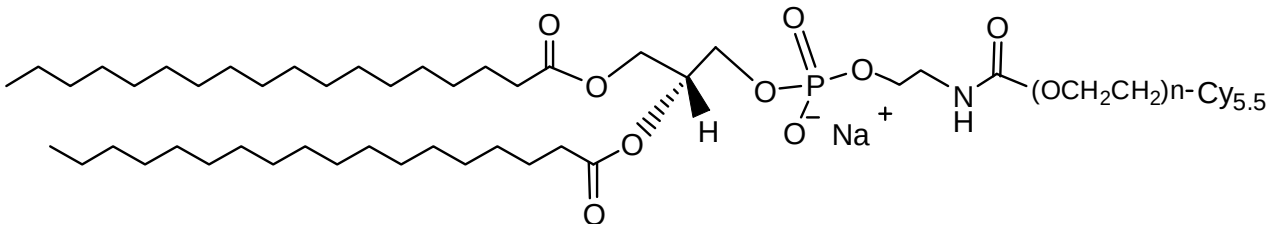
Catalog Numbers: PG2-DSS55-1k, 2k, 3k, 5k, 10k, 20k.

**Synonym: Cy5.5 PEG DSPE**

## Description:

**DSPE PEG Cy5.5** (Cy5.5-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. Cy5.5 labeled DSPE PEG emits strong near infrared fluorescent light at 695 nm upon excited at 675 nm. **Cy5.5 PEG DSPE** can be easily incorporated into liposome or other lipid or phospholipid nanoparticles. Strong fluorescent signal from Cy5.5 allows quick and easy detection and tracking of labeled species. PEG linker between Cy5.5 and DSPE offers good water solubility, flexible linker structure and increased stability.

## Product Structure:




## Product Specifications:

- Composition: DSPE PEG Cy5.5.
- Appearance: Blue to dark blue solid.
- Solubility: >5 mg/mL in hot water, chloroform.
- Ex/Em wavelength: 675 nm/695 nm (FITC).

## Handling and Use:

**DSPE PEG Cy5.5** 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:

**Cy5.5 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.**