

## TECHNICAL DATA SHEET

### Methoxy Polyethylene Glycol DSPE, mPEG-DSPE

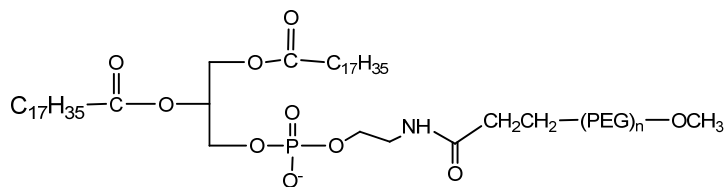
Catalog Numbers: PG1-DS-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

Synonym: MethoxyPEG DSPE, mPEG DSPE, PEG DSPE, DSPE PEG

#### Description:

**Methoxypolyethylene glycol DSPE (mPEG-DSPE)** is one of Nanocs' **phospholipid PEG** derivatives that has a terminal DSPE group on PEG end. DSPE (1,2-distearoyl-sn-glycero-3-phospho-ethanolamine) is a C18 saturated phospholipid with high hydrophobicity. **Pegylated DSPE** demonstrates excellent amphiphilic properties and offer superior advantages for small and large molecule encapsulation and delivery. Our DSPE PEG has been used for liposome drug formulation, cell membrane study and many other studies. Besides our monofunctional PEG lipids, Nanocs also provides a variety of multifunctional phospholipid PEG products that have been used for targeted drug delivery, nanoparticle functionalization and liposome formation. Molecules, particles and materials modified by phospholipid PEG show enhanced water solubility and stability, reduced immunogenicity and decreased non-specific binding.

#### Product Structure:



#### Product Specifications:

- Composition: **mPEG DSPE.**
- Appearance: White/ solid or semi-solid depends on molecular weight.
- Purity: > 95%.
- Solubility: Soluble in warm water, methanol, chloroform, etc.
- Stability: 12 months at 4~8 °C.

#### Handling and Use:

**mPEG DSPE** 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](http://www.nanocs.net).

#### Storage Conditions:

**DSPE PEG** should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. 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.**

#### Related Products:

DSPE PEG NH<sub>2</sub>  
DSPE PEG Maleimide  
DSPE PEG Biotin

DSPE PEG NHS  
DSPE PEG Azide

#### To Order:

Order online: [www.nanocs.net](http://www.nanocs.net)

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