

# mPEG<sub>x</sub>-DSPE

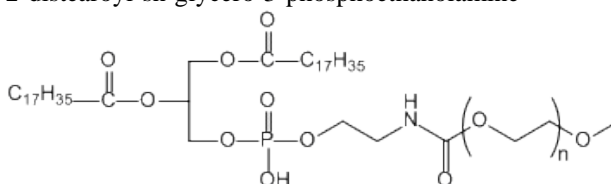
## Description

**Name :** mPEG<sub>x</sub>- DSPE

Syn.: Methoxy-PEG-DSPE ; MethylOxy-PEG-DSPE ; DSPE-PEG-OCH<sub>3</sub>  
 DSPE : distearoylphosphatidylethanolamine, 2-distearoyl-sn-glycero-3-phosphoethanolamine  
 PEG : PolyEthyleneGlycol

**Molecular Weight**    **Catalog Number :**

MW 750Da	KV506 Inquire
MW 1000Da	KV5071 Inquire
MW 2000 Da	KV5082, 1g
MW 3400Da	Inquire
MW 5000Da	KV5091 Inquire
MW 10000Da	KV5101 Inquire
MW 20000 Da	KV5111 Inquire
MW 30000 Da	KV5121 Inquire
MW 40000 Da	KV5131 Inquire



CAS: 147867-65-0

**Properties:**    **Solubility:** in chloroform, etc and hot water, ...  
**Appearance :** White solid powder

**Storage:**    Store at -20°C <sup>[M]</sup>, +4°C possible for short term<sup>0</sup>  
 Keep in dry and avoid sunlight.

## Technical information

• The **PolyEthyleGlycol arm (PEG)** spacer is PolyEthyleneGlycol chain, that imparts hydrophilicity and other great physicochemical properties. For example, the PEG tether can suppress the non-specific binding of charged molecules to the modified surfaces. It is available in different lengths (from 400da to 40KDa) that allow to tune its effect optimally in each application.

• **DSPE** (distearoylphosphatidylethanolamine) belongs to the Phosphatidylethanolamines class of phospholipids, found in biological membranes, mainly found in the inner (cytoplasmic) leaflet of the lipid bilayer. It is a saturated C18 phospholipid taht is highly hydrophobic.

## Applications:

Pegylated phospholipids have longer blood circulation time and higher stability for encapsulated drugs. DSPE PEG derivatives can be used in biochemistry, to prepare drug delivery systems, on polypeptide synthesis support, to graft polymer compounds, to prepare functional coatings... and also for bioassay development, for the study of ligands,

- medical research
- drug-release
- cell culture
- nanotechnology
- new materials research

FT-KV5082

**Handling and Use:**

For best use, material should always be kept in low temperature in dry conditions and under inert gaz for best stability. Prepare fresh solution right before use. Avoid frequent thaw and freezing.

**Related products:**

See also DSPE-PEG<sub>x</sub>-Maleimide (FT-[1D0532](#))

DSPE-PEG<sub>x</sub>-Folate (FT-[LD454A](#))

Other Pegylated Lipids

Other monofunctional mPEG<sub>x</sub> (FT-[AYPMB0](#))

Other monofunctional mPEOs (FT-[0B6601](#))

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