

DSPE-PEG-Biotin

Catalog: Lipo-516

DSPE-PEG-Biotin (DSPE-PEG-BIO) is a linear heterobifunctional PEGylation reagent with a DSPE phospholipid and a biotin. It is a useful self-assembling reagent to prepare grafted or PEGylated liposome or micelle while also providing an biotin group for binding to avidin or streptavidin.
It is often used in targeted drug delivery with the lipid bilayer to improve drug solubility, the PEG to provide stealth property, extend circulation half-life and reduce non-specific protein binding or cell adhesion, and the biotin group to non-covalently bind to targeting molecules including antibody, aptamer, protein, and peptide.

PRODUCT INFORMATION

Product Name	DSPE-PEG-Biotin
Catalog Number	Lipo-516
Product Overview	DSPE-PEG-Biotin (DSPE-PEG-BIO) is a linear heterobifunctional PEGylation reagent with a DSPE phospholipid and a biotin. It is a useful self-assembling reagent to prepare grafted or PEGylated liposome or micelle while also providing an biotin group for binding to avidin or streptavidin. It is often used in targeted drug delivery with the lipid bilayer to improve drug solubility, the PEG to provide stealth property, extend circulation half-life and reduce non-specific protein binding or cell adhesion, and the biotin group to non-covalently bind to targeting molecules including antibody, aptamer, protein, and peptide.
Purity	>95%
Application	Liposome production; Synthetic lipid
Synonyms	1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[biotinyl(polyethylene glycol)] (DSPE-PEG-BIO); DSPE-PEG-BIO

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.

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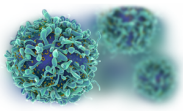

Storage	**Short term:** +2°C to +8°C (up to 1 week) **Long term:** -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to ?3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.

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