

DSPE-PEG-N3

Catalog: Lipo-515

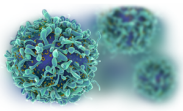
DSPE-PEG-azide (DSPE-PEG-N3) is lipid-PEG conjugate with terminated azide. NSP azide PEG DSPE products can be used to prepare pegylated liposome using Click Chemistry. Azide reacts readily with alkyne or cycloocytne in aqueous solution with or without copper catalyst.
PEG conjugated 1,2-Distearoyl-sn-Glycero-3-Phosphoethanolamine (DSPE), DSPE-PEG is a phospholipid PEG conjugate which has both hydrophilicity and hydrophobility. Pegylated phospholipids are excellent liposome formation materials that can be used for drug delivery, gene transfection and vaccine delivery as well. Pegylation of phospholipids significantly improves the blood circulation time and stability for encapsulated drugs. These materials can also be used for targeted drug delivery by modifying their surfaces with targeting ligands such as antibodies, peptides.

PRODUCT INFORMATION

Product Name	DSPE-PEG-N3
Catalog Number	Lipo-515
Product Overview	DSPE-PEG-azide (DSPE-PEG-N3) is lipid-PEG conjugate with terminated azide. NSP azide PEG DSPE products can be used to prepare pegylated liposome using Click Chemistry. Azide reacts readily with alkyne or cycloocytne in aqueous solution with or without copper catalyst. PEG conjugated 1,2-Distearoyl-sn-Glycero-3-Phosphoethanolamine (DSPE), DSPE-PEG is a phospholipid PEG conjugate which has both hydrophilicity and hydrophobility. Pegylated phospholipids are excellent liposome formation materials that can be used for drug delivery, gene transfection and vaccine delivery as well. Pegylation of phospholipids significantly improves the blood circulation time and stability for encapsulated drugs. These materials can also be used for targeted drug delivery by modifying their surfaces with targeting ligands such as antibodies, peptides.

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Purity	>95%
Application	Liposome production; Synthetic lipid
Synonyms	DSPE-PEG-Azide; 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[azido(polyethylene glycol)], DSPE-PEG-N3

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.
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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