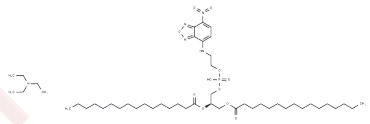
Data Sheet (Cat.No.T86974)

TargetMol

NBD-PE

Chemical Properties



CAS No. : 178119-00-1

Formula: C49H90N5O11P

Molecular Weight: 956.24

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	NBD-PE is a lipid dye used primarily as a probe to study lipid organisation and dynamics within cell membranes and also to study membrane fusion by fluorescence resonance energy transfer (FRET), Ex=463 nm, Em=536 nm.
Targets(IC50)	Lipid

Solubility Information

Solubility	Methanol: 0.2 mg/mL (0.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0458 mL	5.2288 mL	10.4576 mL
5 mM	0.2092 mL	1.0458 mL	2.0915 mL
10 mM	0.1046 mL	0.5229 mL	1.0458 mL
50 mM	0.0209 mL	0.1046 mL	0.2092 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Esfahani M, Cavanaugh JR, Pfeffer PE, Luken DW, Devlin TM. 19F-NMR and fluorescence polarization of yeast plasma membrane and isolated lipids. Biochem Biophys Res Commun. 1981 Jul 16;101(1):306-11.
Uster PS, Pagano RE. Resonance energy transfer microscopy: visual colocalization of fluorescent lipid probes in liposomes. Methods Enzymol. 1989;171:850-7.
Monti JA, Christian ST, Shaw WA. Synthesis and properties of a highly fluorescent derivative of phosphatidylethanolamine. J Lipid Res. 1978 Feb;19(2):222-8.

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