

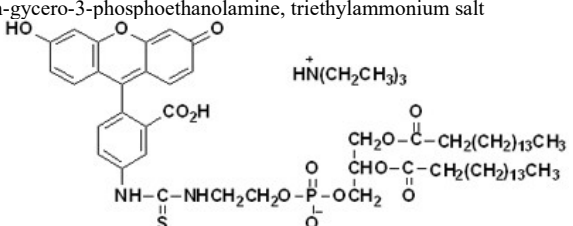
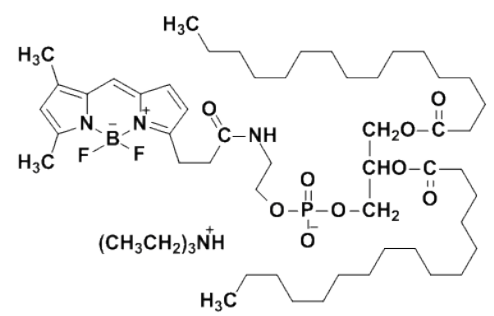
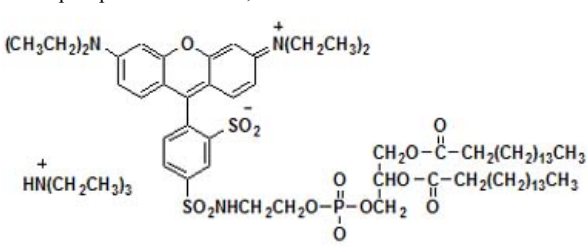
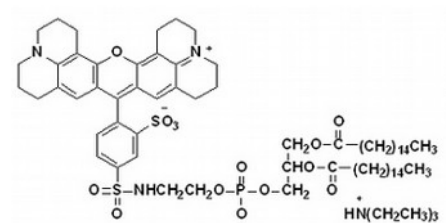
FT-38750A



Fluorescent-DHPE

Fluorescent DHPE is a membrane-surface probe which is sensitive to local electrostatic potential and pH
For labeling of lives cells with fluorescent phospholipids, which liposomes are employed as carriers

Products Information

Name :	Fluorescein-DHPE	
Catalog Number :	FP-59917A 5 mg	
Molecular Weight :	MW= 1182.54	
Soluble in:	DMSO, DMF and 5% MeOH/CHCl ₃	
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (CH ₃ OH) = 497 / 520 nm	
EC :	88000 M ⁻¹ cm ⁻¹	
Name :	FluoProbes FL Neutral-DHPE	
Catalog Number :	FP-98779A 5 mg	
Molecular Weight :	MW= 1067.22	
Soluble in:	DMSO, DMF and 1-2% MeOH/CHCl ₃	
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (CH ₃ OH) = 505 / 511 nm	
EC :	78000 M ⁻¹ cm ⁻¹	
Name :	Rhodamine-DHPE	
Catalog Number :	FP-38750A 5 mg	
Molecular Weight :	MW= 1333.81	
Soluble in:	DMSO, DMF and chloroform (CHCl ₃)	
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (CH ₃ OH) = 561 / 580 nm	
EC :	75000 M ⁻¹ cm ⁻¹	
Name :	SRI01-DHPE	
	Sulforhodamine 101 DHPE; N-(Rhodamine 101 sulfonyl)-1,2-hexadecanoyl-sn-4-phosphoethanolamine, triethylammonium salt	
Catalog Number :	FP-40173A 1 mg	
	CAS [187099-99-6]	
Molecular Weight :	MW= 1381.85	
Soluble in:	DMSO, DMF and 5% MeOH/CHCl ₃	
Absorption / Emission :	$\lambda_{exc} \backslash \lambda_{em}$ (CH ₃ OH) = 583 / 615 nm	
EC :	116000 M ⁻¹ cm ⁻¹	

FT-38750A

Storage: -20°C Protect from light and moisture

These probes have been used for the study of membrane-surface, membrane structure, for following membrane trafficking during endocytosis, of lipid peroxidation

Rhodamine dyes have been used as fluorescence energy acceptors in combination with NBD as the donor in membrane fusion assays using the principle of fluorescence energy transfer (FRET). Hence Rhodamine-DHPE in combination with NBD-PE (# FP-59916A) has been used to study membrane fusion via FRET.

Directions for use

Guidelines for use

Stock solution at least 1-2 mg/ml can be prepared in ethanol.
Sonication can help for dispersion.

Protocol may be found in the literature.

References

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- **Song S. et al.**, Novel peptide ligand directs liposomes toward EGF-R high-expressing cancer cells in vitro and in vivo, *FASEB J*, 23: 1396 - 1404 (2009) [Article](#)
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- **Poelma DL, Ju MR, Bakker SC, Zimmermann LJ, Lachmann BF, van Iwaarden JF.** Am J Respir Cell Mol Biol 30, 751-8 (2004) .-----3; Yoshina-Ishii C, Boxer SG. J Am Chem Soc 125, 3696-7 (2003)

Ordering information

Related products

- [Biotin-DHPE](#), FP-59920, FP-90869
- [PDP - DHPE](#), FP-WU5260 (N-(2-Pyridyldithio)propionyl)
- [NBD-PE \(phosphatidylEthanolAmine\)](#) FP-59916A
- [NBD-PC \(phosphatidylcholine\)](#), FP-N24841
- [Laurdan \(6-dodecanoyl-2-dimethylaminonaphthalene\)](#) , FP-468279

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