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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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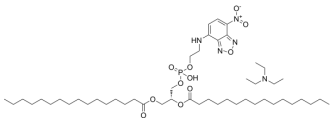
NBD-PE

Cat. No.:	HY-D1683
CAS No.:	178119-00-1
Molecular Formula:	$C_{49}H_{90}N_5O_{11}P$
Molecular Weight:	956.24
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	NBD-PE is an effective lipid fluorescent probe (Excitation/Emission: 465/535 nm; Color: Green). NBD-PE offers a wide array of applications in membrane and cell biology[1][2][3].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Assay of phospholipid transfer activity[3]: 1. The reaction mixture containes 2 mg mitochondrial protein, 0.02 μmol of NBD-PE, 0.5 mmol of Tris-HCl, pH 7.4, and 0-200 μg of pH 5.l-supernatant protein. 2. Samples are incubated at 37°C for 1 hour with gentle agitation. 3. The reaction is terminated by placing samples in an ice bath for 10 min, followed by centrifugation at 15,000 g for 5 min. 4. The supernatants are decanted, allowed to come to room temperature, and the absorbance (460 nm) and the relative fluorescence at 535 nm (excitation at 465 nm) are determined. 5. Blanks containing only NBD-PE and exchange protein are run concomitantly to correct for possible interaction between NBD-PE and exchange protein. 6. The percent exchange of NBD-PE is calculated from the differences between the absorbances or relative fluorescence in the supernatant fractions in the presence and absence of exchange protein. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. M Esfahani, et al. 19F-NMR and fluorescence polarization of yeast plasma membrane and isolated lipids. Biochem Biophys Res Commun. 1981 Jul 16;101(1):306-11.

[2]. P S Uster, et al. Resonance energy transfer microscopy: visual colocalization of fluorescent lipid probes in liposomes. Methods Enzymol. 1989;171:850-7.

[3]. J A Monti, et al. Synthesis and properties of a highly fluorescent derivative of phosphatidylethanolamine. J Lipid Res. 1978 Feb;19(2):222-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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