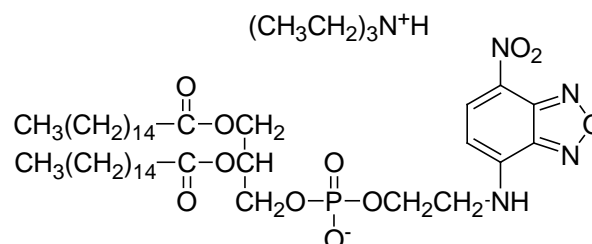


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **NBD-DHPE** (*N*-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)-1,2-dihexadecanoyl-*sn*-glycero-3-phosphoethanolamine, triethylammonium salt)

CATALOG # **60025**

MOLECULAR INFORMATION: C₄₉H₉₀N₅O₁₁P
MW: 956.24

**PROPERTIES:**

Color & Form Orange solid
Purity ≥95% by TLC
Solubility Soluble in chloroform
Absorption/Emission 463/536 nm (MeOH)
Extinction Coefficient 14,000

STORAGE AND HANDLING:

Store at ≤ -20°C and protect from light. **Please note:** Chloroform may degrade the O-ring in the cap on the product vial. For long term storage after reconstitution in chloroform, transfer the solution to a vial without an O-ring.

APPLICATION:

NBD-DHPE in combination with Rhodamine-DHPE (#60026) or Texas Red-DHPE (#60027) has been used to study membrane fusion via fluorescence resonance energy transfer (FRET)¹⁻³. NBD-DHPE has also been used in photobleaching recovery measurement.

Ref.: 1) *Biochemistry* **20**, 4093(1981); 2) *Meth. Enzymol.* **221**, 239(1993); 3) *Meth. Enzymol.* **171**, 850(1989); 4) *Prog. Lipid Res.* **33**, 203(1994); 5) *J. Cell Biol.* **122**, 1253 (1993).

RELATED PRODUCTS

Biotin-DHPE(#60022); *Biotin-X-DHPE*(#60023); *Fluorescein-DHPE*(#60024); *Rhodamine-DHPE*(#60026); *Texas Red-DHPE*(#60027); *TRIC DHPE*(#60028)

TOXICITY:

Not established. Not listed by NTP, IARC or OSHA.

FIRST AID:

Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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