



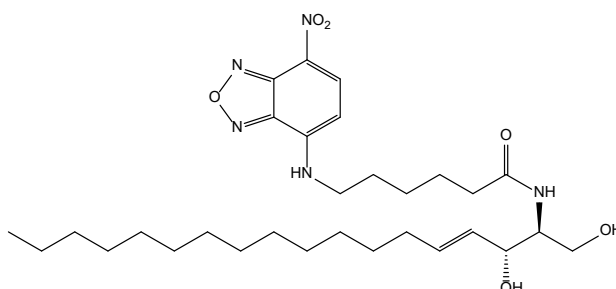
Catalog # 10-5496

C6-NBD Ceramide

CAS# 94885-02-6

N-[7-(4-Nitrobenzo-2-oxa-1,3-diazole)]-6-aminocaproyl-D-erythro-sphingosine; N-(NBD-aminohexanoyl) D-erythro-sphingosine

Lot # S106144



C6-NBD Ceramide (94855-02-6) is a selective stain for the Golgi apparatus.¹ Readily taken up by MDCK cells and converted into C6-NBD-sphingomyelin and C6-NBD-glucosyl-ceramide.² A useful substrate for assay of ceramide kinase.³ May be used to monitor the biosynthesis and degradation of sphingomyelin in cellular systems.⁴ Ex: 455 nm and Em: 533 nm.⁴

References:

1. Chazotte (2012), *Labeling Golgi with Fluorescent Ceramides*; Cold Spring Harb. Protoc. (8):pdb.prot070599
2. van Meer *et al.* (1987), *Sorting of sphingolipids in epithelial (Madin-Darby canine kidney) cells*; J. Cell Biol. **105** 1623
3. Don and Rosen (2008), *A fluorescent plate reader assay for ceramide kinase*; Anal. Biochem. **375** 265
4. Nikolova-Karakashian (2021), *Methods to Characterize Synthesis and Degradation of Sphingomyelin at the Plasma Membrane and Its Impact on Lipid Raft Dynamics*; Methods Mol. Biol. **2187** 113

PHYSICAL DATA

Molecular Weight:	575.75
Molecular Formula:	C ₃₀ H ₄₉ N ₅ O ₆
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (35 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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