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**Product Data Sheet**


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Product Name: C12 NBD Sphingomyelin (d18:1/12:0)

Cat. No.: GC43018

**Chemical Properties**

Cas. No.

SMILES O=C(CCCCCCCCCCNC1=CC=C([N+])([O-])=O)C2=NON=C12)NC(COP(OCC[N+](C)(C)C)([O-])=O)C(O)/C=C/CCCCCCCCCCCC

Formula C<sub>41</sub>H<sub>73</sub>N<sub>6</sub>O<sub>9</sub>P

M.Wt 825

Solubility Chloroform:Methanol (2:1): soluble, Methanol: soluble Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

C12 NBD sphingomyelin is a biologically active derivative of sphingomyelin that is tagged with a fluorescent C12 nitrobenzoxadiazole (C12 NBD) group. C12 NBD sphingomyelin has been used to study the metabolism and transport of sphingomyelins. It is hydrolyzed by sphingomyelinase to C12 NBD ceramide . This product is a mixture of the D-erythro and L-threo isomers of C12 NBD sphingomyelin.

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

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