

Product Data Sheet

Product Name: NBD Sphingosine

Cat. No.: GC44322

Chemical Properties

Cas. No. 1449370-25-5

SMILES OC[C@H](N)[C@H](O)/C=C/CCCCCCCCCCCCCNC1=CC=C([N+])([O-])=O)C2=NON=C12

Formula C₂₄H₃₉N₅O₅

M.Wt 477.6

Solubility Ethanol: 1 mg/ml

Storage Store at -20°C

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

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

Structure



Background

NBD sphingosine is a biologically active derivative of sphingosine that is tagged with a fluorescent nitrobenzoxadiazole (NBD) group. It has been used to study the cellular localization and metabolism of sphingosine in HeLa cells. NBD sphingosine inhibits proliferation of HCT116, PC3, HEK293T, and HFE-145 cells (IC₅₀s = 25.6, 40.5, 10.4, and 12.5 μM, respectively).

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

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