Data Sheet (Cat.No.T84489)

TargetMol

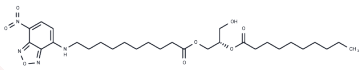
1-NBD-decanoyl-2-decanoyl-sn-Glycerol

Chemical Properties

CAS No. : 2309189-98-6

Formula: C29H46N4O8

Molecular Weight: 578.7



Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Diacylglycerols (DAG) are generated through the hydrolysis of membrane phospholipids and function as lipid second messengers by activating protein kinase C (PKC) and modulating cell growth and apoptosis. Additionally, they act as precursors for DAG kinases in the synthesis of phosphatidic acid, a crucial lipid messenger. The compound 1-NBD-decanoyl-2-decanoyl-sn-glycerol incorporates a nitrobenzoxadiazole (NBD) fluorophore at the ω-end of its terminal decanoyl chain, using the structure of 1,2-didecanoyl-sn-glycerol as a model for diacylglycerol. This molecule is expected to exhibit excitation and emission peaks at roughly 470/541 nm, paralleling those of various NBD-labeled phospholipids. Fluorescently labeled lipids, such as this, are instrumental in exploring their interactions with proteins, their uptake by cells and liposomes, and in developing assays for lipid metabolism research.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.728 mL	8.6401 mL	17.2801 mL
5 mM	0.3456 mL	1.728 mL	3.456 mL
10 mM	0.1728 mL	0.864 mL	1.728 mL
50 mM	0.0346 mL	0.1728 mL	0.3456 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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