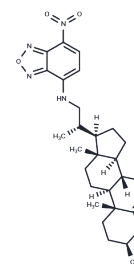


## 22-NBD Cholesterol

## Chemical Properties

CAS No. :	78949-95-8
Formula:	C <sub>28</sub> H <sub>38</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	494.63
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	22-NBD cholesterol, a fluorescent cholesterol analog featuring a nitrobenzoxadiazole (NBD) group, serves multiple research purposes in both in vitro and in vivo settings. Its applications span the analysis of steroid uptake and esterification, the study of intracellular localization and targeting, cholesterol metabolism in mammalian and bacterial cells, and examining cholesterol intestinal absorption in hamsters. This compound showcases excitation/emission maxima at 472/540 nm when integrated into 1,2-dimyristoyl-sn-glycero-3-PC (DMPC) vesicles. Notably, the emission maximum of 22-NBD cholesterol varies with the solvent's polarity, becoming more pronounced as the polarity increases.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0217 mL	10.1086 mL	20.2171 mL
5 mM	0.4043 mL	2.0217 mL	4.0434 mL
10 mM	0.2022 mL	1.0109 mL	2.0217 mL
50 mM	0.0404 mL	0.2022 mL	0.4043 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

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