Data Sheet (Cat.No.T86066)

TargetMol

C-Laurdan

Chemical Properties

CAS No. : 959839-06-6

Formula: C25H35NO3

Molecular Weight: 397.55

Storage: Keep away from direct sunlight,
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	C-Laurdan, a fluorescent probe for imaging lipid rafts with environmentally sensitive fluorescence, exhibits strong photostability under two-photon excitation and is suitable for single and two-photon fluorescence imaging to detect lipid membrane properties such as membrane lateral organization and various membrane-associated processes. C-Laurdan is used in biophysical membrane research to study lipid raft organization, membrane fluidity, and phase behavior in cellular and model membrane systems under fluorescence microscopy platforms.
Targets(IC50)	PROTAC Linker
In vitro	Methods:The fluorescence spectral characteristics of C-Laurdan in environments with different polarities and lipid phases were observed, and its optical properties and application potential were analyzed. Results: 1.The fluorescence spectrum of C-Laurdan varied with environmental polarity: a red shift occurred in polar environments, while a blue shift was observed in nonpolar environments. 2.This probe presents unique fluorescence properties in lipid phases and can be applied to the study of cell membrane phase separation [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (100.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5154 mL	12.577 mL	25.1541 mL
5 mM	0.5031 mL	2.5154 mL	5.0308 mL
10 mM	0.2515 mL	1.2577 mL	2.5154 mL
50 mM	0.0503 mL	0.2515 mL	0.5031 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.

Reference

Martín M Dodes Traian, et al. Imaging lipid lateral organization in membranes with C-laurdan in a confocal microscope. J Lipid Res. 2012 Mar;53(3):609-616.