

BODIPY 581/591 C11

Chemical Properties

CAS No. : 217075-36-0

Formula: C₃₀H₃₅BF₂N₂O₂

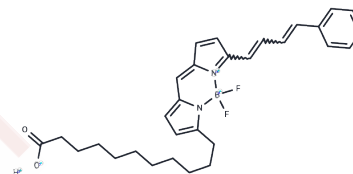
Molecular Weight: 504.42

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	BODIPY 581/591 C11 is a fluorescent radioactive probe used to indicate lipid peroxidation and antioxidant efficacy in model membrane systems and living cells.
Targets(IC50)	Ferroptosis
In vitro	<p>I. Preparation of stock solution Dissolve 1 mg BODIPY 581/591 C11 in 0.1983 mL DMSO to obtain 10 mM BODIPY 581/591 C11. Note: Store the stock solution at -20°C or -80°C away from light and avoid repeated freezing and thawing.</p> <p>Preparation of BODIPY 581/591 C11 working solution Dilute the stock solution with pure DMEM medium or PBS to make BODIPY 581/591 C11 working solution at 1-10 µM. Note: Please adjust the concentration of BODIPY 581/591 C11 Working Solution according to your experimental plan and practice.</p> <p>Cell Staining</p> <p>1) Preparation requirements for different cell types: Suspension cells: centrifuge at 4°C, 1000g for 3-5 minutes, discard the supernatant, wash with PBS twice for 5 minutes each time. Adherent cells: discard the cell culture medium, add trypsin (1 ½ min) to dissociate the cells and make a single cell suspension. Centrifuge at 1000 g for 3-5 minutes at 4°C, discard supernatant and wash twice with PBS for 5 minutes each time. Note: Please be gentle when using PBS cells and when blowing the cells with the pipette gun.</p> <p>2) Add 1 mL of BODIPY 581/591 C11 working solution to the prepared cells and incubate for 30 minutes at room temperature.</p> <p>3) Centrifuge at 400 g for 4 minutes at 4°C and discard the supernatant.</p> <p>4) Wash with PBS 2 times for 5 minutes each time.</p> <p>5) Resuspend the cells using pure DMEM medium or PBS, and observe the stained cells by fluorescence microscope or flow cytometer.</p> <p>Notes: 1. This product is intended for research and development use only and should not be used for medication, household or other purposes.</p>

A DRUG SCREENING EXPERT

In vitro	2. For your safety and health, please wear a white coat and disposable gloves to operate. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.
----------	--

Solubility Information

Solubility	DMSO: 10 mg/mL (19.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9825 mL	9.9124 mL	19.8247 mL
5 mM	0.3965 mL	1.9825 mL	3.9649 mL
10 mM	0.1982 mL	0.9912 mL	1.9825 mL
50 mM	0.0396 mL	0.1982 mL	0.3965 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

Gregor P C Drummen, et al. C11-BODIPY(581/591), an oxidation-sensitive fluorescent lipid peroxidation probe: (micro)spectroscopic characterization and validation of methodology. Free Radic Biol Med. 2002 Aug 15;33(4): 473-90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481