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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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BODIPY 500/510 C1, C12

Cat. No.: HY-D1617

CAS No.: 144672-74-2

Molecular Formula: $C_{22}H_{31}BF_2N_2O_2$

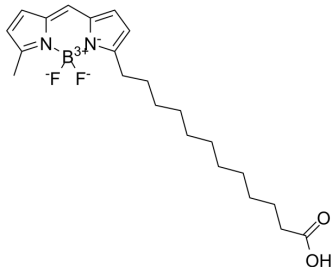
Molecular Weight: 404.3

Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (247.34 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4734 mL	12.3671 mL	24.7341 mL
	5 mM	0.4947 mL	2.4734 mL	4.9468 mL
	10 mM	0.2473 mL	1.2367 mL	2.4734 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BODIPY 500/510 C1, C12 is a BODIPY dye. BODIPY dye is a small molecule dye with strong ultraviolet absorption ability, its fluorescence peak is relatively sharp, and the quantum yield is high. They are relatively insensitive to the polarity and pH of the environment and are relatively stable under different physiological conditions. Due to its structural asymmetry, BODIPY derives a variety of structural products. BODIPY lipid droplet dyes can well pass through the cell membrane into the cell, and localize the polar lipids in the cell to specifically stain the lipid droplets, which can be used for labeling of live cells and fixed cells[1]. Maximum excitation/emission wavelength: 500/510 nm[1]. Protect from light, stored at -20℃.

In Vitro

General Protocol

1. Preparation of BODIPY 500/510 C1 working solution

1.1 Preparation of the stock solution

Dissolve 1 mg BODIPY 500/510 C1 in 247 µL DMSO to obtain 10 mM of stock solution.

Note: It is recommended to store the stock solution at -20°C or -80°C, keep away from light and avoid repetitive freeze-thaw cycles.

1.2 Preparation of BODIPY 500/510 C1 working solution

Dilute the stock solution in serum-free cell culture medium or PBS to obtain 1-10 µM of working solution.

Note: Please adjust the concentration of BODIPY 500/510 C1 working solution according to the actual situation.

2. Cell staining

2.1 Suspension cells (6-well plate)
a. Centrifuge at 1000 g at 4°C for 3-5 min and then discard the supernatant. Wash twice with PBS, 5 min each time.The cell density is 1×10^6/mL.
b. Add 1 mL of working solution, and then incubate at room temperature for 5-30 min.
c.Centrifuge at 400 g at 4°C for 3-4 min and then discard the supernatant.
d. Wash twice with PBS, 5 min each time.
e. Resuspend cells with serum-free cell culture medium or PBS. Observation by fluorescence microscopy or flow cytometry.
2.2 Adherent cells
a. Culture adherent cells on sterile coverslips.
b. Remove the coverslip from the medium and aspirate excess medium.
c. Add 100 μL of working solution, gently shake it to completely cover the cells,and then incubate at room temperature for 5-30 min.
d. Wash twice with medium, 5 min each time. Observation by fluorescence microscopy or flow cytometry.

Storage
-20°C, 1 year; Protect from light.
Precautions
1. Please adjust the concentration of BODIPY 500/510 C1 working solution according to the actual situation.
2. Experiments suggest a positive control, incubate the control group cells with 30 μM oleic acid for 8 h and then perform subsequent experiments.
3. This product is only for R&D use, not for drug, household, or others.
4. For your safety and health, please wear a lab coat and disposable gloves to operate.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lyu Z, et al. PPARγ maintains the metabolic heterogeneity and homeostasis of renal tubules. EBioMedicine. 2018 Dec;38:178-190.

[2]. Kamkaew A, et al. BODIPY dyes in photodynamic therapy. Chem Soc Rev. 2013 Jan 7;42(1):77-88.

[3]. Bo Qiu, et al. BODIPY 493/503 Staining of Neutral Lipid Droplets for Microscopy and Quantification by Flow Cytometry. Bio Protoc. 2016 Sep 5;6(17):e1912.

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