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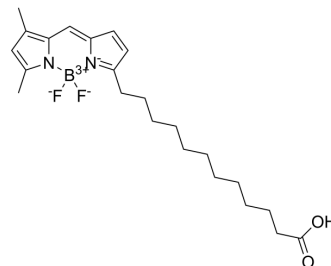
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BODIPY FL C12

Cat. No.:	HY-D1570
CAS No.:	158757-79-0
Molecular Formula:	C ₂₃ H ₃₃ BF ₂ N ₂ O ₂
Molecular Weight:	418.33
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>BODIPYFL 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: 480/508 nm^[1].</p>
In Vitro	<p>General Protocol</p> <ol style="list-style-type: none"> 1. Preparation of BODIPYFL C12 working solution <ol style="list-style-type: none"> 1.1 Preparation of the stock solution Dissolve 1 mg BODIPYFL C12 in 382 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 BODIPYFL C12 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 BODIPYFL C12 working solution according to the actual situation. 2. Cell staining <ol style="list-style-type: none"> 2.1 Suspension cells (6-well plate) <ol style="list-style-type: none"> 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 1×10⁶/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 <ol style="list-style-type: none"> 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. <p>Storage -20°C, 1 year; Protect from light.</p>

Precautions

1. Please adjust the concentration of BODIPYFL C12 working solution according to the actual situation.
2. Experiments suggest a positive control, incubate the control group cells with 30 μ M 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]. Kang ZB, et al. Fluopack screening platform for unbiased cellular phenotype profiling. *Sci Rep.* 2020 Feb 7;10(1):2097.
- [2]. Glende J, et al. Importance of cholesterol-rich membrane microdomains in the interaction of the S protein of SARS-coronavirus with the cellular receptor angiotensin-converting enzyme 2. *Virology.* 2008 Nov 25;381(2):215-21.
- [3]. Kamkaew A, et al. BODIPY dyes in photodynamic therapy. *Chem Soc Rev.* 2013 Jan 7;42(1):77-88.
- [4]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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