

Product Data Sheet

Product Name: BODIPY 505/515-8-C3-COOH

Cat. No.: GC27791

Chemical Properties

Cas. No. 878674-84-1

SMILES O=C(CCCC1=C2C(C)=CC(C)=[N+]2[B-3])([F-])([N-]3C1=C(C)C=C3C)[F-]O

Formula $C_{17}H_{21}BF_2N_2O_2$ M.Wt 334.17

Solubility Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Protocol

Guide (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).

Labeling of Cells

1. Dissolve BODIPY 505/515-8-C3-COOH in DMSO at a concentration of 4 mg/mL, then dilute to different working stock concentrations with DMSO.
2. Add an appropriate amount of BODIPY 505/515-8-C3-COOH working stock solution to the cell suspension to achieve a final DMSO volume fraction of 2-10% (v/v) and a final BODIPY 505/515-8-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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C3-COOH concentration of 0.8-4 µg/mL.

3. After mixing the cells and the dye thoroughly, incubate in the dark for 15 min, then detect using a flow cytometer.

Background

BODIPY 505/515-8-C3-COOH is a green fluorescing derivative, as a fluorescent dye for imaging lipid droplets in nanochloropsis. BODIPY 505/515-8-C3-COOH can be used for the research of flow cytometric high-throughput screening and cell sorting^[1].

References:

[1]. ChristianSüdfeld, et al. Optimization of high-throughput lipid screening of the microalga Nannochloropsis oceanica using BODIPY 505/515. Algal Research,

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