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-

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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 nannochloropsis. 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,