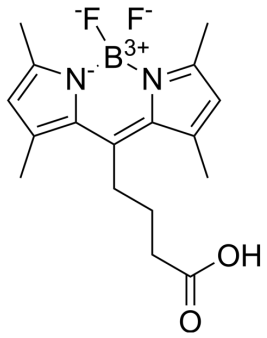
BODIPY 505/515-8-C3-COOH

Cat. No.:	HY-D1581
CAS No.:	878674-84-1
Molecular Formula:	$C_{17}H_{21}BF_2N_2O_2$
Molecular Weight:	334.17
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Labeling of Cells: 1. Fresh N. oceanica cultures are diluted to ~4×10^6 cells/ml with ASW and kept at 22⊠ prior to any treatment. Incubate the cells according to your normal protocol. 2. BODIPY 505/515 is dissolved in DMSO at 4 mg/ml and diluted with DMSO to different working stock concentrations. 3. Cell suspensions are supplemented with the appropriate BODIPY 505/515 working stock to a specific DMSO concentration between 2 and 10% (v/v) with final BODIPY concentrations between 0.8 and 4 µg/ml. 4. Pure DMSO was used for control treatments. 1 ml of fresh culture was diluted to ~4×10^6 cells/ml with ASW and stained with 6% DMSO and 1.2 µg/ml BODIPY for 15 min (non-stressed cultures) or with 10% DMSO and 1.6 µg/ml BODIPY for 36 min (stressed cultures). 5. Upon addition of the dye, samples were vortexed for 5 s and then incubated in the dark for 15 min before flow cytometric analysis, if not indicated otherwise. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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