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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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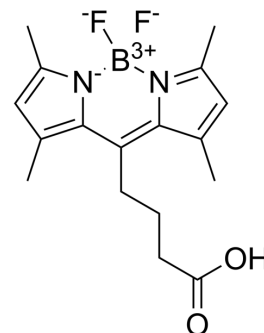
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BODIPY 505/515-8-C3-COOH

Cat. No.:	HY-D1581
CAS No.:	878674-84-1
Molecular Formula:	C ₁₇ H ₂₁ BF ₂ N ₂ O 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	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>Labeling of Cells:</p> <ol style="list-style-type: none"> 1. Fresh <i>N. oceanica</i> cultures are diluted to ~4×10⁶ cells/ml with ASW and kept at 22°C 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 ~4×10⁶ 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. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

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

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

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