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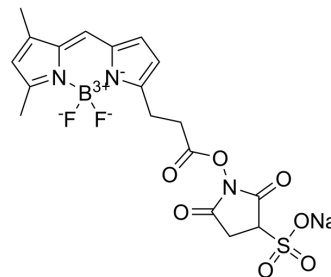
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BODIPY FL SSE

Cat. No.:	HY-D1607
CAS No.:	217190-17-5
Molecular Formula:	C ₁₈ H ₁₇ BF ₂ N ₃ NaO ₇ S
Molecular Weight:	491.21
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BODIPY FL SSE is a potent fluorescent dye. BODIPY FL SSE is used to label the primary amines (R-NH ₂) of proteins, amine-modified oligonucleotides, and other amine-containing molecules. BODIPY FL SSE can reactive with primary amines on biomolecules to emit green fluorescence. ($\lambda_{ex}=502$ nm, $\lambda_{em}=511$ nm) ^{[1][2]} .
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>BODIPY FL SSE assay (to quantify GAPDH)^[1]:</p> <ol style="list-style-type: none"> 1. Make a 2 mg/ mL stock of GAPDH (MW 37 kDa) in PBS (pH 7.4). 2. Add 54 nM of BODIPY-FL-SSE to 1 mL of the 2 mg/ mL (54 μM) GAPDH solution. Incubate the mixture for 4 h on ice. 3. Dialyze the reaction mixture against 500 ml of PBS, pH 7.4, in a 10,000 MW-cutoff dialysis cassette for 1 h at 4 °C. Change the buffer and dialyze again overnight. Change the dialysis buffer once more the following morning and dialyze further for 1 h. 4. Run the dialyzed sample through a Zeba desalting column at 1000 g for 2 min. 5. Analyze the BD-GAPDH spectrophotometrically in a quartz cuvette. Set the wavelength scan to 250-700 nm. Blank the instrument against PBS and add the BD-GAPDH to the cuvette. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Hill BG, et, al. Methods for the determination and quantification of the reactive thiol proteome. *Free Radic Biol Med*. 2009 Sep 15;47(6):675-83.
- [2]. Gite S, et, al. Ultrasensitive fluorescence-based detection of nascent proteins in gels. *Anal Biochem*. 2000 Mar 15;279(2):218-25.

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

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