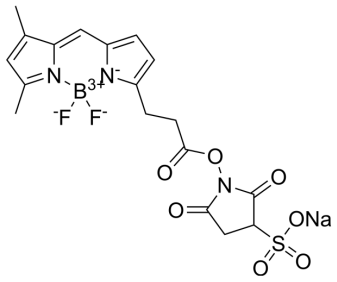
BODIPY FL SSE

Cat. No.:	HY-D1607
CAS No.:	217190-17-5
Molecular Formula:	$C_{18}H_{17}BF_2N_3NaO_7S$
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. (λ_{ex}=502 nm, λ_{em}=511 nm)[1][2].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). BODIPY FL SSE assay (to quantify GAPDH)[1]: 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. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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