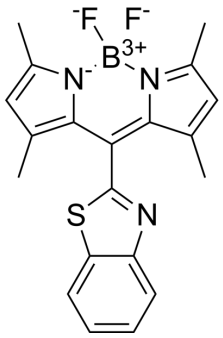
meso-Benzothiazole-BODIPY 505/515

Cat. No.:	HY-151536
Molecular Formula:	$C_{20}H_{18}BF_2N_3S$
Molecular Weight:	381.25
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	meso-Benzothiazole-BODIPY 505/515 is a boron dipyrromethenes (BODIPY) -based fluorescent probe[1].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)[1]. Labeling of Cells: 1. Culture cells in 20 mm confocal dishes at a density of 5× 10^4 cells/mL. Incubate the cells according to your normal protocol. 2. For confocal imaging, adding 5 μM meso-Benzothiazole-BODIPY 505/515 (Probe 1) in medium are used to culture the cells for 30 min. 3. Cells are excited at 488 nm and emissions were collected at 520 600 nm. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Immunofluorescence[1]

Cell Line:	SH-SY5Y cells
Concentration:	5 μM
Incubation Time:	30 min
Result:	Showed relatively weak fluorescence emissions in low viscous cells, but showed strong fluorescence emissions when the SH-SY5Y cells were preincubated with LPS and nystatin.

REFERENCES

[1]. Wen-Jing Shi, et al. Novel Meso-Benzothiazole-Substituted BODIPY-Based AIE Fluorescent Rotor for Imaging Lysosomal Viscosity and Monitoring Autophagy. Anal Chem. 2022 Oct 12.

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

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