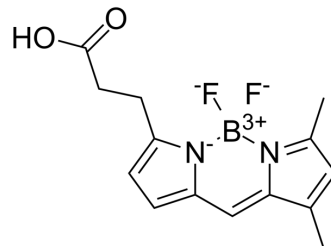


## BODIPY-FL

<b>Cat. No.:</b>	HY-43520
<b>CAS No.:</b>	165599-63-3
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> BF <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	292.09
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (342.36 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4236 mL	17.1180 mL	34.2360 mL
	5 mM	0.6847 mL	3.4236 mL	6.8472 mL
	10 mM	0.3424 mL	1.7118 mL	3.4236 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

BODIPY-FL is a potent fluorescent dye. BODIPY-FL can be used to label probe or primer for fluorescent quenching-based quantitative detection of specific DNA/RNA. BODIPY-FL-labeled monoterpenoid can be used to examine the features of a broad spectrum of Gram-positive and Gram-negative bacteria and pathogenic fungi as well<sup>[1][2][3]</sup>.

## REFERENCES

- [1]. David Dulin, et al. Reduced photobleaching of BODIPY-FL. *Physics Procedia*. 2010, February 28, 1563-1567.
- [2]. Kurata S, et al. Fluorescent quenching-based quantitative detection of specific DNA/RNA using a BODIPY((R)) FL-labeled probe or primer. *Nucleic Acids Res*. 2001 Mar 15;29(6):E34.
- [3]. Guseva GB, et al. Design, Spectral Characteristics, and Possibilities for Practical Application of BODIPY FL-Labeled Monoterpenoid. *ACS Appl Bio Mater*. 2021 Aug 16;4(8):6227-6235.

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

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