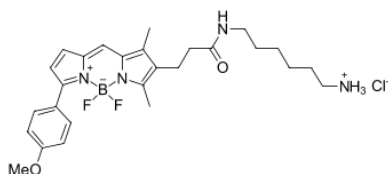


## BDP TMR amine

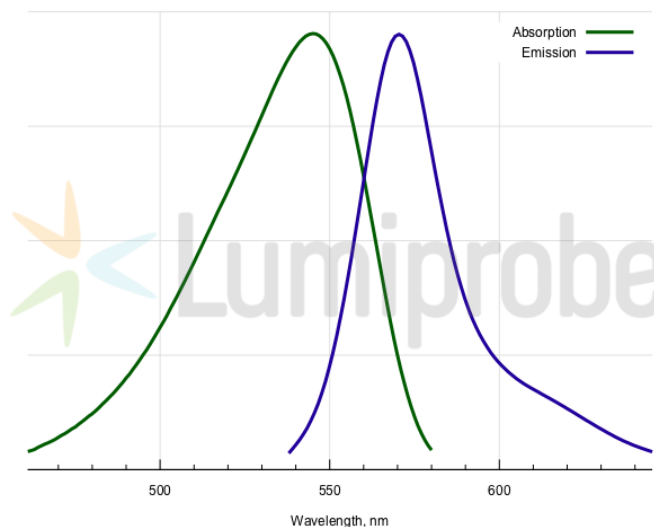
<http://www.lumiprobe.com/p/bodipy-tmr-amine>

BDP TMR is a dye for TAMRA channel. Unlike original TAMRA, it however possesses very good quantum yield, and therefore high brightness.

This derivative contains a primary amine group that can be conjugated with various electrophiles. It can also participate in enzymatic transamination reaction.



**BODIPY TMR amine structure**



**Absorption and emission spectra of BODIPY TMR**

### General properties

Appearance:	violet solid
Molecular weight:	532.86
CAS number:	2183473-08-5 (free base)
Molecular formula:	C <sub>27</sub> H <sub>36</sub> BClF <sub>2</sub> N <sub>4</sub> O <sub>2</sub>
IUPAC name:	1,3-dimethyl-2-(6-aminohexylaminocarbonyl)-4,4-difluoro-5-(4-methoxyphenyl)borondipyrromethene
Solubility:	good in alcohols, DMF, DMSO
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	542
$\epsilon$ , L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64
CF <sub>260</sub> :	0.16
CF <sub>280</sub> :	0.16

BDP® is a trademark of Lumiprobe