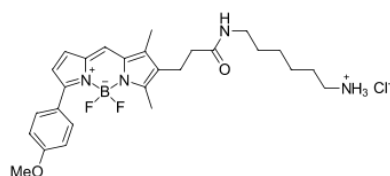


## BDP® TMR amine

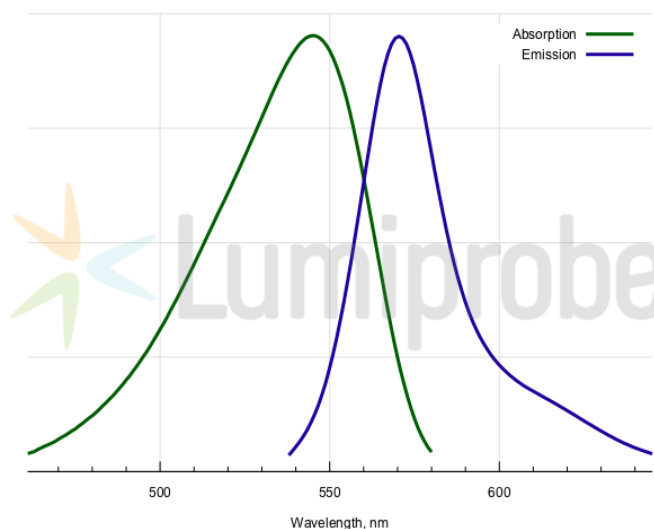
<http://www.lumiprobe.com/p/bdp-tmr-amine>

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 BDP 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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

### Spectral properties

Excitation/absorption maximum, nm:	542
ε, 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

