

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

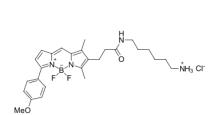
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

BDP® TMR amine

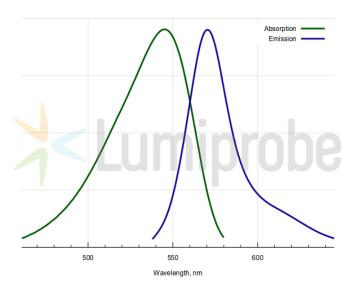
http://www.lumiprobe.com/p/bdp-tmr-amine

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: C₂₇H₃₆BClF₂N₄O₂

IUPAC name: 1,3-dimethyl-2(6-aminohexylaminocarbonyl)-4,4-difluoro-5-(4-methoxyphenyl)borondipyrromethene

Solubility: good in alcohols, DMF, DMSO

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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 542

 $maximum, \, nm: \,$

 ϵ , L·mol⁻¹·cm⁻¹: 55000 Emission maximum, 574

nm:

Fluorescence 0.6

quantum yield:

ce 0.64

 CF_{260} : 0.16 CF_{280} : 0.16