

Lumiprobe Corporation

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

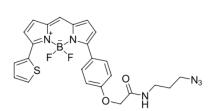
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

BDP® TR azide

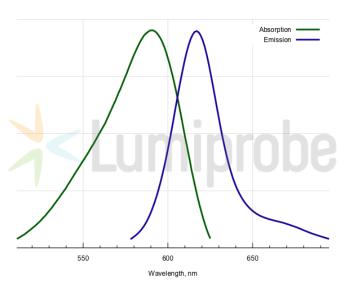
http://www.lumiprobe.com/p/bdp-tr-azide

This is an azide for copper-catalyzed and copper-free click chemistry labeling with BDP TR, a bright red emitting fluorophore. BDP TR is an alternative to ROX. This fluorophore is based on borondipyrromethene scaffold and contains aryl substituents to match its absorption and emission to the ROX channel.

ROX dye is prone to oxidation, and BDP TR is much more resilient to oxidants. Its brightness and photostability are also very high.



Structure of BDP TR azide



Absorption and emission spectra of BDP TR

General properties

Appearance: dark colored solid

Mass spec M+ increment: 506.2 Molecular weight: 506.34

CAS number: 2183473-27-8 Molecular formula: $C_{24}H_{21}N_6BF_2O_2S$

Solubility: good in DMF, DMSO, DCM

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 maximum, nm: 589 ϵ , L·mol⁻¹·cm⁻¹: 69000 Emission maximum, nm: 616 Fluorescence quantum yield: 0.9 CF_{260} : 0.15 CF_{280} : 0.19

BDP® is a trademark of Lumiprobe