

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

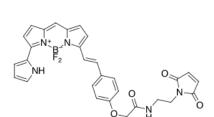
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

BDP® 650/665 maleimide

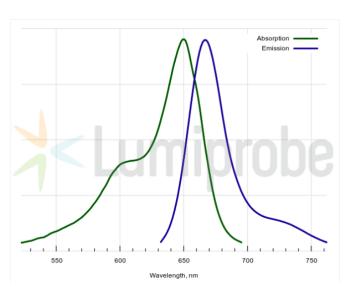
http://www.lumiprobe.com/p/bdp-650-665-maleimide

BDP 650/665 is a bright, red-emitting fluorophore for Cyanine5 (Cy5) channel. The dye has a high molar extinction coefficient and a good emission quantum yield. The dye is moderately hydrophobic but can be used to label biomolecules in an aqueous environment, so it is a good alternative to Cy5.

Maleimide is a thiol-reactive group. The compound can be used for the labeling of cysteine residues of proteins and peptides, among other SH-containing molecules.



Structure of BDP 650/665 maleimide



Absorption and emission spectra of BDP 650/665

General properties

Appearance: dark colored solid

Mass spec M+ increment: 555.2 Molecular weight: 555.34 Molecular formula: $C_{29}H_{24}N_5BF_2O_4$

Solubility: good in DMF, DMSO, low in water

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: 649 ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: 94000 Emission maximum, nm: 667 Fluorescence quantum yield: 0.52 CF_{260} : 0.04 CF_{280} : 0.04

BDP® is a trademark of Lumiprobe