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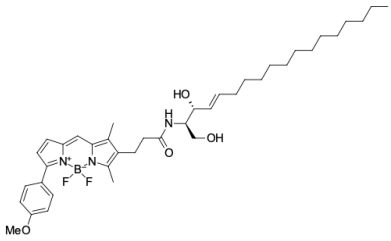
BDP® TMR ceramide

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

Ceramides are precursors of sphingolipids composed of sphingosine and a fatty acid joined by an amide bond. This BDP TMR ceramide is a synthetic fluorescent lipid, a conjugate of orange-emitting BDP TMR fluorophore with sphingosine. Inside the cell, BDP TMR ceramide is incorporated into the membranes of the Golgi apparatus, so this stain is widely used in cell biology to visualize the Golgi apparatus in living and fixed cells with fluorescence microscopy.



Structure of BDP TMR ceramide

General properties

Appearance:	red/brown semisolid
Molecular weight:	679.69
Molecular formula:	$C_{39}H_{56}BF_2N_3O_4$
Solubility:	good in many organic solvents
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
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, $L \cdot mol^{-1} \cdot cm^{-1}$:	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64
CF_{260}:	0.16
CF_{280}:	0.16