

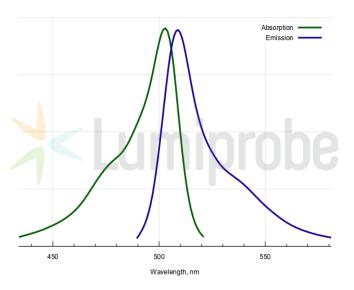
BDP® FL L-Cystine

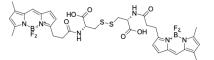
http://www.lumiprobe.com/p/bdp-fl-cystine

BDP FL L-cystine is a symmetric disulfide for reversible thiol-specific labeling of thiolated oligonucleotides, proteins, and cells.

BDP FL L-cystine consists of two BDP FL molecules connected via a disulfide bridge between two cysteine residues. In the dimeric disulfide state, the fluorescence of the dye is quenched.

Like other symmetric disulfides, BDP FL L-cystine undergoes a thiol-disulfide interchange reaction. Reduction of the disulfide bridge releases the monomeric dye molecule and results in fluorescence in the green region of the spectrum.





Structure of BDP FL L-Cystine

Absorption and emission spectra of BDP FL

General properties	
Appearance:	orange powder
Molecular weight:	788.46
Molecular formula:	C,H,a,B,F,N,Q,S,
IUPAC name:	(2R)-31(2R)-2-carboxy-2{-3(2,2-difluoro-10.12-dimethyl-1-aza-3-azonia-2-boranuidatricycto(7.3.0.03,7)dodeca-3.5,7,9,11-pentaen-4-y()propanoylamino]bropanoic acid
Quality control:	NMR ¹ H 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:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.
Spectral properties	
Excitation/absorptio maximum, nm:	n 503
ε, L·mol ⁻¹ ·cm ⁻¹ :	92000
Emission maximum, nm:	509
Fluorescence quantum yield:	0.97
CF260:	0.015
CF280:	0.027