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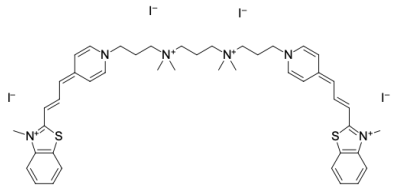
BODi-3, orange fluorescent nucleic acid stain

http://www.lumiprobe.com/p/bobo-3-nucleic-acid-stain

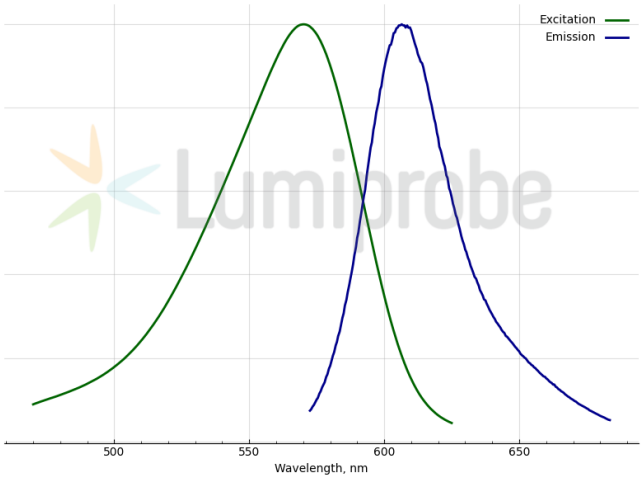
BODi-3 (also known as BOBO®-3) is a orange fluorescent carbocyanine dimeric dye. BODi-3 is a cell-impermeant nucleic acid stain that is nonfluorescent in the absence of nucleic acids but exhibits a multiple fluorescence enhancement upon binding to dsDNA.

The bright fluorescence signal and low background make BODi-3 ideal for staining nucleic acids on microarrays, as well as for nuclear and chromosome counterstaining in multicolor fluorescence labeling experiments.

The dye is used to image cell nuclei, label bacteria and sperms, perform nucleic acid detection and amplification, and as a temperature sensor.



Structure of BODi-3



Excitation and emission spectra of BODi-3 (DNA-dye complex)

General properties

Appearance:	purple solution
Molecular weight:	1254.75
CAS number:	169454-17-5
Molecular formula:	$C_{45}H_{58}I_4N_6S_2$
IUPAC name:	Benzothiazolium, 2,2′-[1,3-propanediylbis-[(dimethyliminio)-3,1-propanediyl-1(4H)-pyridinyl- 4-ylidene-1-propen-1-yl-3-ylidene]]bis[3-methyl-, tetraiodide
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.
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:	565 (complex)
Emission maximum, nm:	606 (complex)