

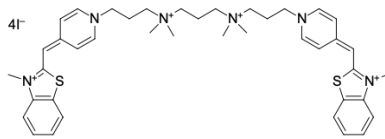
## BODi-1, cyan fluorescent nucleic acid stain

<http://www.lumiprobe.com/p/bobo-1-nucleic-acid-stain>

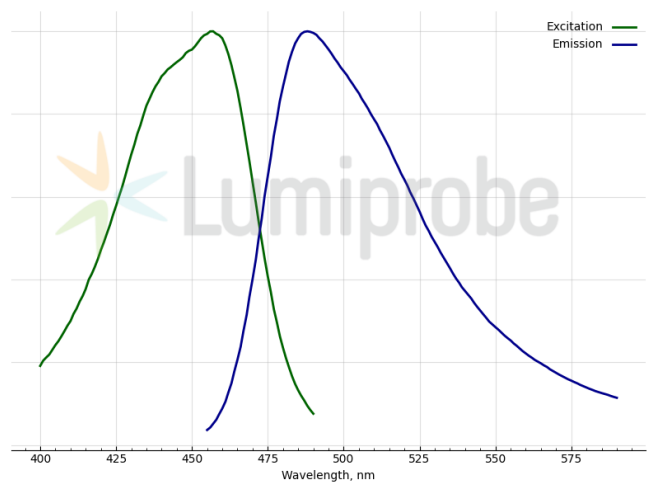
BODi-1 (also known as BOBO<sup>®</sup>-1) is a cyan fluorescent carbocyanine dimeric dye. BODi-1 is a cell-impermeant nucleic acid stain that is nonfluorescent in the absence of nucleic acids but exhibits a multiple fluorescence enhancement upon binding to dsDNA.

The bright fluorescence signal and low background make BODi-1 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 detect and count cells (megakaryocyte, erythroblasts, sperms, microorganisms, etc.), perform nucleic acid detection, characterizing DNA/lipid complexes (lipoplexes), and as a temperature sensor.



**Structure of BODi-1**



**Excitation and emission spectra of BODi-1 (DNA-dye complex)**

### General properties

Appearance: orange solution  
Molecular weight: 1202.67  
CAS number: 169454-13-1  
Molecular formula: C<sub>41</sub>H<sub>54</sub>I<sub>4</sub>N<sub>6</sub>S<sub>2</sub>  
IUPAC name: 2-[(1-(3-[(3-(dimethyl(3-[4-[(3-methyl-1,3-benzothiazol-3-ium-2-yl)methylene]-1(4h)-pyridinyl]propyl)ammonio]propyl)](dimethyl)ammonio]propyl)-4(1h)-pyridinylidene)methyl]-3-methyl-1,3-benzothiazol-3-ium tetraiodide  
Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)  
Storage conditions: 24 months after receipt 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 457 (complex)  
maximum, nm:  
Emission maximum, 488 (complex)  
nm:

BOBO<sup>®</sup> is the trademark of Invitrogen.