

## **Lumiprobe Corporation**

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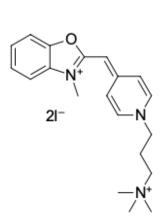
## PO-TAP-1, blue fluorescent nucleic acid stain

http://www.lumiprobe.com/p/po-pro-1-nucleic-acid-stain

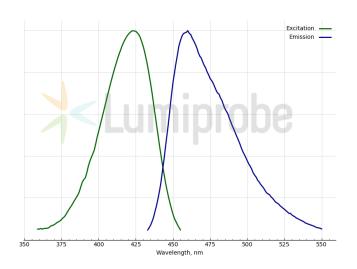
PO-TAP-1 (Oxazole Blue Monomer, also known as PO-PRO®-1) is a blue fluorescent carbocyanine monomeric dye. PO-TAP-1 is a cell-impermeant nucleic acid stain that is nonfluorescent in the absence of nucleic acids but exhibits a multiple fluorescence enhancement upon binding to dsDNA.

The bright fluorescence signal and low background make PO-TAP-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 and microorganisms, perform nucleic acid sequencing, amplification, and hybridization, and as a temperature sensor.



Structure of PO-TAP-1



Excitation and emission spectra of PO-TAP-1 (DNA-dye complex)

## **General properties**

Appearance: red solution

Molecular weight: 579.26

CAS number: 157199-56-9

Molecular formula:  $C_{20}H_{27}I_3N_3O$ 

IUPAC name: trimethyl-[3-[4-[(E)-(3-methyl-1,3-benzoxazol-2-ylidene)methyl]pyridin-1-ium-1-yl]propyl]azanium;diiodide

Quality control: NMR <sup>1</sup>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.

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 423 (complex) maximum, nm:

Emission maximum, 460 (complex)

nm:

PO-PRO® is the trademark of Molecular Probes.