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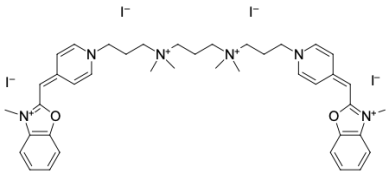
PODi-1, blue fluorescent nucleic acid stain

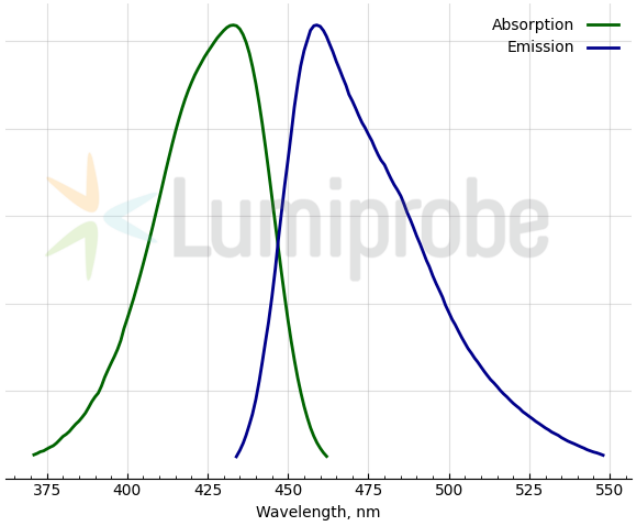
http://www.lumiprobe.com/p/podi-1-nucleic-acid-stain-popo-1

PODi-1 (Oxazole Blue Homodimer, also known as POPO®-1) is a blue fluorescent carbocyanine dimeric dye. PODi-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 PODi-1 ideal for staining nucleic acids on microarrays, as well as for nuclear and chromosome counterstaining in multicolor fluorescence labeling experiments.



Structure of PODi-1



Absorption and emission spectra of PODi-1 (DNA-dye complex)

General properties

Appearance:	yellow solution
Molecular weight:	1170.54
CAS number:	169454-15-3
Molecular formula:	$C_{41}H_{54}I_4N_6O_2$
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:	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/absorption maximum, nm:	433
Emission maximum, nm:	458

POPO® is the trademark of Invitrogen.