

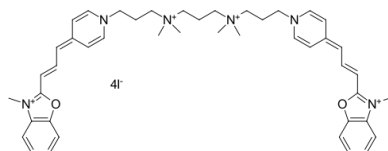
PODi-3, yellow fluorescent nucleic acid stain

<http://www.lumiprobe.com/p/podi-3-nucleic-acid-stain-popo-3>

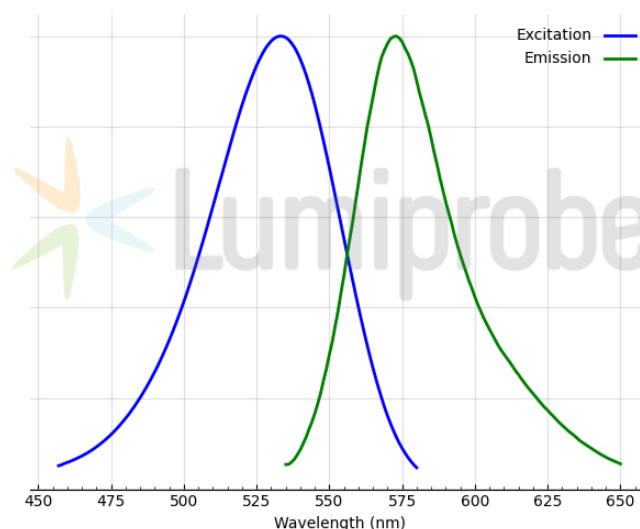
PODi-3 is a dimeric carbocyanine dye with yellow fluorescence. PODi-3 is a non-permeant nuclear dye that does not fluoresce in the absence of nucleic acids. The dye significantly (approximately 500-fold) enhances its fluorescence upon binding to double-stranded DNA.

PODi-3 can be used as an intercalating agent and for nucleic acid staining in various analytical methods: flow cytometry (cell cycle analysis), fluorescence microscopy (nuclei and microbial imaging), for counting erythroblasts, reticulocytes, spermatozoa, and megakaryocytes, and for nucleic acid quantification.

PODi-3 is ideal for multicolor fluorescent labeling due to its bright signal and low background fluorescence.



Structure of PODi-3



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

General properties

Appearance:	dark pink solution
Molecular weight:	1222.61
CAS number:	154757-99-0
Molecular formula:	$C_{45}H_{58}I_4N_6O_2$
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at $-20^{\circ}C$ 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:	533
Emission maximum, nm:	573

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