

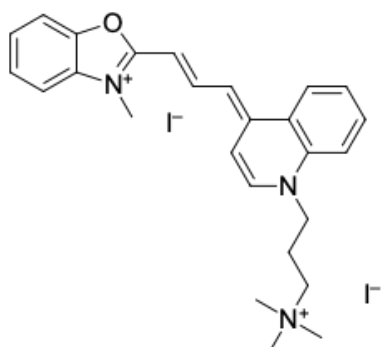
## YO-TAP-3, red fluorescent nucleic acid stain

<http://www.lumiprobe.com/p/yo-pro-3-nucleic-acid-stain>

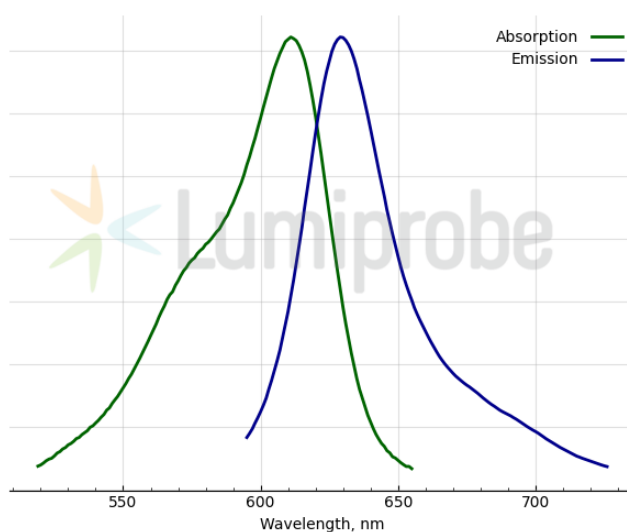
YO-TAP-3 (Oxazole Red Monomer, also known as YO-PRO<sup>®</sup>-3) is a red fluorescent carbocyanine monomeric dye. YO-TAP-3 is a cell-impermeant nucleic acid stain that is nonfluorescent in the absence of nucleic acids but exhibits significant fluorescence enhancement upon binding to DNA.

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

Simultaneous labeling with cell-impermeant YO-TAP-3 and cell-permeable [LUCS 13](#) or [Annexin V-AF488](#) can be used to assess cell viability and apoptosis.



**Structure of YO-TAP-3**



**Absorption and emission spectra of YO-TAP-3 (DNA-dye complex)**

### General properties

|                     |   |
|---------------------|---|
| Appearance:         | blue solution   |
| Molecular weight:   | 655.36  |
| CAS number:         | 157199-62-7   |
| Molecular formula:  | C <sub>26</sub> H <sub>31</sub> I <sub>2</sub> N <sub>3</sub> O   |
| IUPAC name:         | trimethyl-[3-[4-[(Z,3Z)-3-(3-methyl-1,3-benzoxazol-2-ylidene)prop-1-enyl]quinolin-1-ium-1-yl]propyl]azanium;diiodide  |
| 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:    | 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: | 611 |
| Emission maximum, nm:              | 629 |

YO-PRO<sup>®</sup> is the trademark of Molecular Probes.