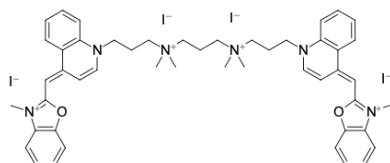


## YODi-1, green fluorescent nucleic acid stain

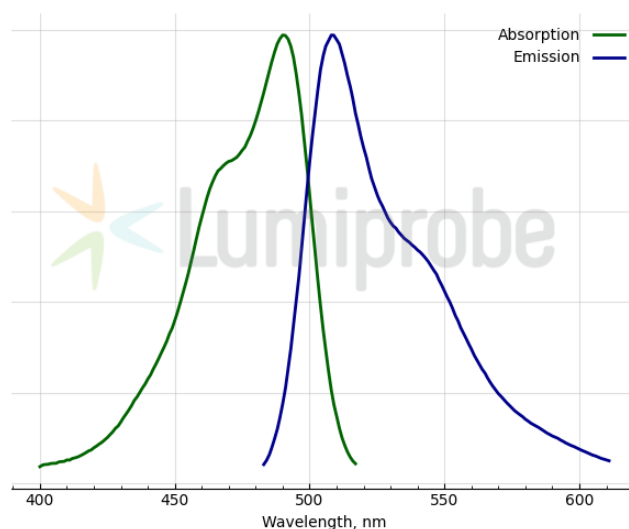
<http://www.lumiprobe.com/p/yodi-1-nucleic-acid-stain-yoyo-1>

YODi-1 (Oxazole Yellow Homodimer, also known as YOYO<sup>®</sup>-1) is a green fluorescent carbocyanine dimeric dye. YODi-1 is a cell-impermeant nucleic acid stain that is nonfluorescent in the absence of nucleic acids but exhibits over a thousand-fold fluorescence enhancement upon binding to dsDNA.

The bright fluorescence signal and low background make YODi-1 ideal for staining nucleic acids on microarrays, as well as for nuclear and chromosome counterstaining in multicolor fluorescence labeling experiments. YODi-1 can also be used for the analysis of single molecules of DNA.



**Structure of YODi-1**



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

### General properties

|                     |                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance:         | orange solution                                                                                                                                                                                                                                                                                                                 |
| Molecular weight:   | 1270.66                                                                                                                                                                                                                                                                                                                         |
| CAS number:         | 143413-85-8                                                                                                                                                                                                                                                                                                                     |
| Molecular formula:  | C <sub>49</sub> H <sub>58.4</sub> I <sub>2</sub> N <sub>6</sub> O <sub>2</sub>                                                                                                                                                                                                                                                  |
| 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: | 490  |
| Emission maximum, nm:              | 508  |
| Fluorescence quantum yield:        | 0.37 |

YOYO<sup>®</sup> is the trademark of Molecular Probes.