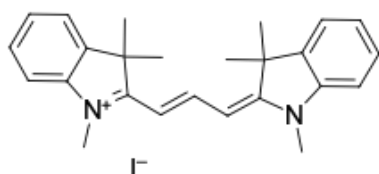


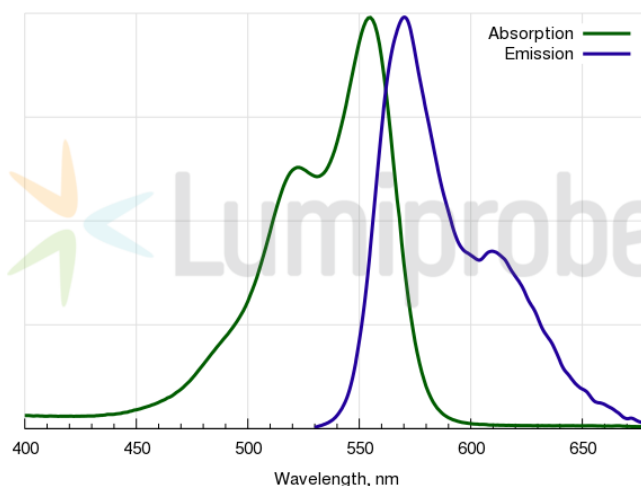
## Cyanine3 dimethyl

<http://www.lumiprobe.com/p/cy3-dimethyl>

Non-functionalized Cyanine3 dye derivative with an aliphatic side chain. Cyanine3 dimethyl is a non-sulfonated bright yellow emitting cyanine dye with good solubility in organic solvents. The dye can be used as a non-reactive fluorophore, for control experiments, and for calibration.



**Structure of Cyanine3 dimethyl**



**Cyanine3 absorbance and emission spectra**

### General properties

|                     |   |
|---------------------|---|
| Appearance:         | dark violet solid   |
| Molecular weight:   | 484.43  |
| CAS number:         | 25470-94-4  |
| Molecular formula:  | C <sub>25</sub> H <sub>29</sub> IN <sub>2</sub>   |
| Solubility:         | good in polar organic solvents (DMF, DMSO)  |
| 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. |

### Spectral properties

|  |        |
|--|--------|
| Excitation/absorption maximum, nm:         | 555    |
| ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 150000 |
| Emission maximum, nm:                      | 570    |
| Fluorescence quantum yield:                | 0.31   |
| CF <sub>260</sub> :                        | 0.04   |
| CF <sub>280</sub> :                        | 0.09   |