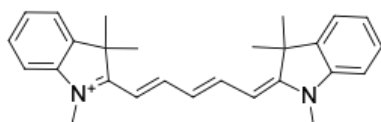


Cyanine5 dimethyl

<http://www.lumiprobe.com/p/cyanine5-dimethyl>

Cyanine5 dimethyl is a non-sulfonated cyanine dye with good solubility in organic solvents and bright fluorescence in the red spectrum range. The dye can be used as a non-reactive fluorophore for control experiments, calibration, and other technical applications.



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Structure of Cyanine5 dimethyl

General properties

| | |
|---------------------|---|
| Molecular weight: | 510.46 |
| Molecular formula: | C ₂₇ H ₃₁ IN ₂ |
| Solubility: | soluble in organic solvents (DMF, DMSO, dichloromethane), insoluble in water |
| Quality control: | NMR ¹ 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: | 646 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 250000 |
| Emission maximum, nm: | 662 |
| Fluorescence quantum yield: | 0.2 |
| CF ₂₆₀ : | 0.03 |
| CF ₂₈₀ : | 0.04 |