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Cyanine 5 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.

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 ¹H and HPLC-MS (95+%)

Storage conditions: 24 months after receival 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