

#### **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

# 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 <sup>1</sup>H 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  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 250000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.2  $CF_{260}$ : 0.03  $CF_{280}$ : 0.04