

#### **Lumiprobe Corporation**

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

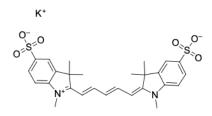
USA

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

# sulfo-Cyanine5 dimethyl

http://www.lumiprobe.com/p/sulfo-cyanine5-dimethyl

sulfo-Cyanine5 dimethyl is a non-functionalized, water-soluble cyanine dye with bright far-red fluorescence. The dye can be used as a non-reactive fluorophore for control experiments, calibration, and other technical applications.



### Structure of sulfo-Cyanine5 dimethyl

## **General properties**

Appearance: blue powder Molecular weight: 580.77

Molecular formula:  $C_{27}H_{29}KN_2O_6S_2$ 

Solubility: good in water, DMF, DMSO, low in most organic solvents

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. Avoid prolonged exposure to light.

### **Spectral properties**

Excitation/absorption maximum, nm: 646  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 271000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.28  $CF_{260}$ : 0.04  $CF_{280}$ : 0.04