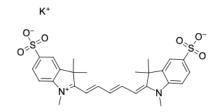


## sulfo-Cyanine5 dimethyl

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    |
|--|--------|
| ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 271000 |
| Emission maximum, nm:                      | 662    |
| Fluorescence quantum yield:                | 0.28   |
| CF <sub>260</sub> :                        | 0.04   |
| CF <sub>280</sub> :                        | 0.04   |