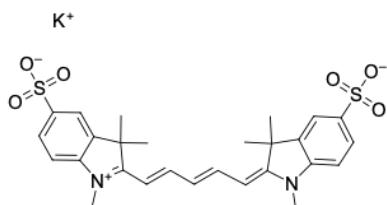


sulfo-Cyanine5 dimethyl

<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 1H 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. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	646
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28
CF_{260} :	0.04
CF_{280} :	0.04