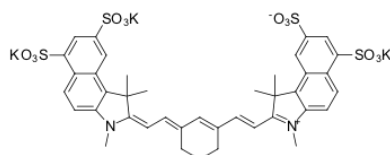


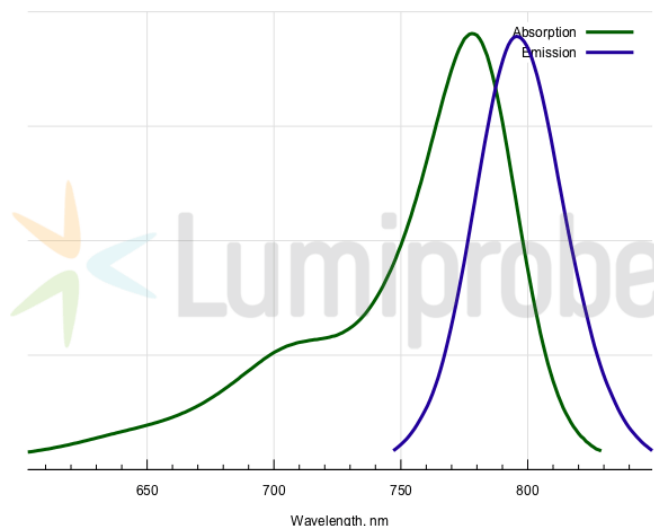
sulfo-Cyanine7.5 dimethyl

<http://www.lumiprobe.com/p/sulfo-cy75-dimethyl/>

sulfo-Cyanine7.5 dimethyl is a non-functionalized, water-soluble cyanine dye with bright near-infrared fluorescence. The dye possesses an extremely high molar absorption coefficient, making it a useful near infrared label for technical applications.



Structure of sulfo-Cyanine7.5 dimethyl



Absorption and emission spectra of sulfo-Cyanine7.5

General properties

Appearance:	green powder
Molecular weight:	983.30
Molecular formula:	$C_{40}H_{37}K_3N_2O_{12}S_4$
Solubility:	good in water, DMF, DMSO, low in most organic solvents
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	778
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	222000
Emission maximum, nm:	797
Fluorescence quantum yield:	0.21
CF_{260} :	0.09
CF_{280} :	0.09