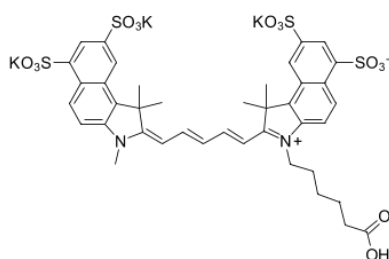


sulfo-Cyanine5.5 carboxylic acid

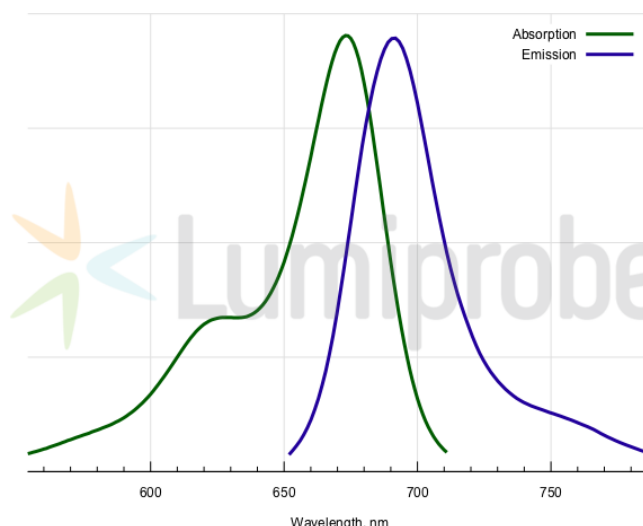
<http://www.lumiprobe.com/p/sulfo-cy55-carboxylic-acid>

sulfo-Cyanine5.5 (analog of Cy5.5®) is a water-soluble, far-red emitting fluorophore. Due to four sulfo groups, the dye possesses a negative charge in neutral pH, and very high hydrophilicity. As a cyanine dye, sulfo-Cyanine5.5 shows a very low dependence of the fluorescence on pH, and a very high extinction coefficient.

This product is a free non-activated carboxylic acid that can be used for calibration and as a non-reactive control.



Structure of Sulfo-Cyanine5.5 carboxylic acid



Sulfo-Cyanine5.5 absorption and emission spectra

General properties

Appearance:	dark blue solid
Molecular weight:	1017.31
CAS number:	2183440-68-6 (inner salt)
Molecular formula:	$C_{40}H_{39}K_3N_2O_{14}S_4$
Solubility:	Well soluble in water, DMF, DMSO (0.39 M = 400 g/L)
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:	673
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	211000
Emission maximum, nm:	691
Fluorescence quantum yield:	0.21
CF_{260} :	0.09
CF_{280} :	0.11

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