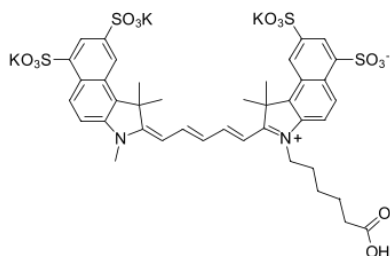


Sulfo-Cyanine5.5 carboxylic acid

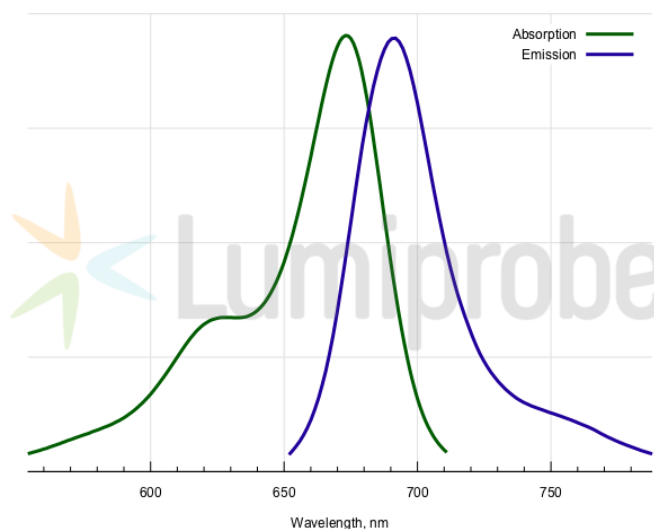
<http://www.lumiprobe.com/p/sulfo-cy55-carboxylic-acid>

Sulfo-Cyanine5.5 (analog of Cy5.5®) is a water-soluble, far red emitting fluorophore. Due to four sulfo-groups, the dye possesses negative charge in neutral pH, and very high hydrophilicity.

As a cyanine dye, sulfo-Cyanine5.5 shows very low dependence of the fluorescence on pH, and very high extinction coefficient.



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 ₃ N ₂ O ₁₄ S ₄
Solubility:	Well soluble in water, DMF, DMSO (0.39 M = 400 g/L)
Quality control:	NMR ¹ H, 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.
TN VED Code:	3204190000

Spectral properties

Excitation maximum, nm:	673
ε, L·mol ⁻¹ ·cm ⁻¹ :	235000
Emission maximum, nm:	691
CF ₂₆₀ :	0.09
CF ₂₈₀ :	0.11

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