

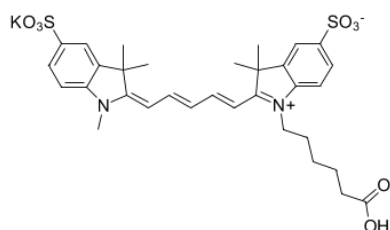
sulfo-Cyanine5 carboxylic acid

<http://www.lumiprobe.com/p/sulfo-cy5-carboxylic-acid>

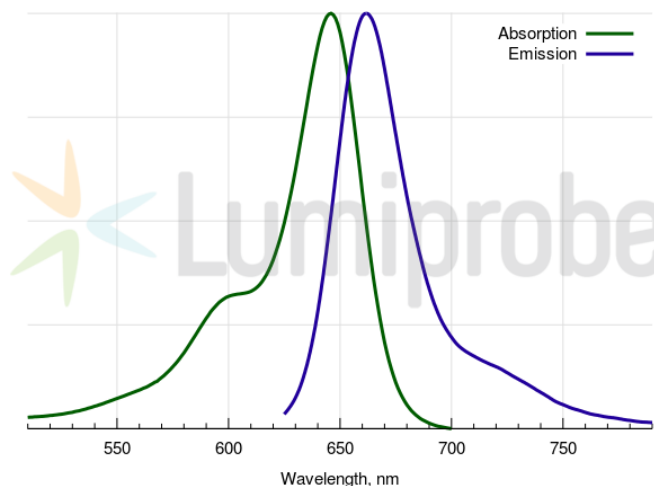
Non-activated sulfo-Cyanine5 carboxylic acid, water soluble dye. This dye is highly hydrophilic and water-soluble. Non-sulfonated analog is [available](#).

The fluorophore is an equivalent of Cy5® carboxylic acid.

For labeling applications consider using pre-activated [sulfo-Cy5 NHS ester](#)



Sulfo-Cyanine5 carboxylic acid dye structure



Sulfo-Cyanine5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	680.87
CAS number:	1144107-82-3 (potassium salt), 1121756-16-8 (inner salt), 2098639-31-5 (sodium salt)
Molecular formula:	C ₃₂ H ₃₇ N ₂ KO ₈ S ₂
Solubility:	Well soluble in water, DMF, DMSO (0.35 M = 240 g/L). Practically insoluble in non-polar organic solvents.
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.

Spectral properties

Excitation/absorption maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.04

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