

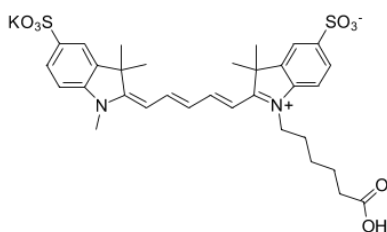
sulfo-Cyanine5 carboxylic acid

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

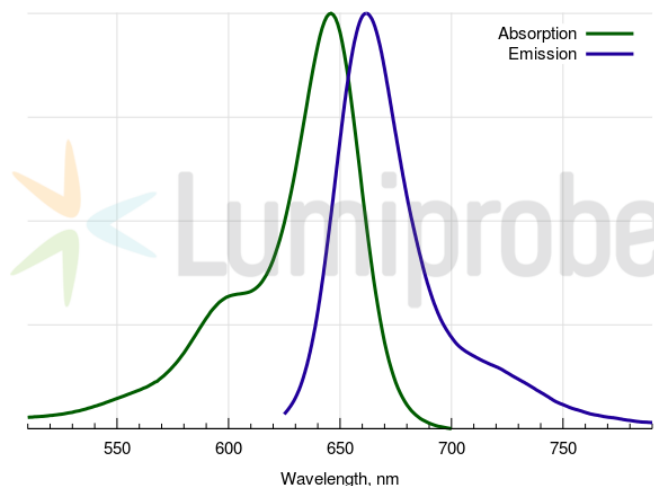
Non-activated sulfo-Cyanine5 carboxylic acid, water soluble dye. This dye is highly hydrophilic and water-soluble. Non-sulfonated analog is [available](#).

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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

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