

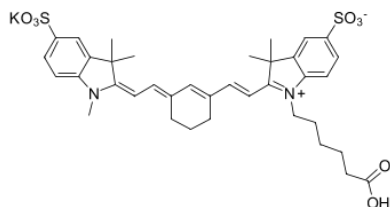
sulfo-Cyanine7 carboxylic acid

<http://www.lumiprobe.com/p/sulfo-cy7-carboxylic-acid>

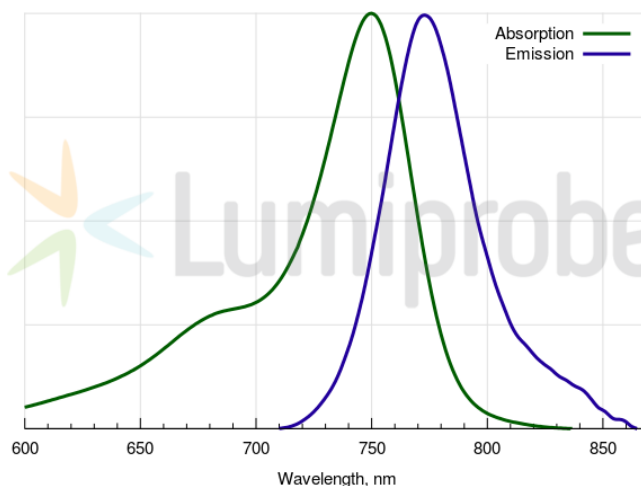
sulfo-Cyanine7 carboxylic acid is a non-reactive water-soluble near-infrared dye.

The reagent is useful as a fluorescent marker in the NIR range when attachment to other molecules is not desired. It has high hydrophilicity and aqueous solubility, improved quantum yield in the NIR range, and a very high molar extinction coefficient.

This reagent contains free carboxylic acid function. Pre-activated activated ester - [sulfo-Cyanine7 NHS ester](#) is also available.



Sulfo-Cyanine7 carboxylic acid



Sulfo-Cyanine7 absorbance and emission spectra

General properties

Appearance:	dark green powder
Molecular weight:	746.97
CAS number:	2104632-29-1 (inner salt); 2104632-30-4 (sodium salt)
Molecular formula:	C ₃₇ H ₄₃ N ₂ KO ₆ S ₂
Solubility:	Soluble in water, DMF, DMSO (0.10 M = 76 g/L). Practically insoluble in non-polar organic solvents.
Quality control:	NMR ¹ H, HPLC (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:	750
ε, L·mol ⁻¹ ·cm ⁻¹ :	240600
Emission maximum, nm:	773
Fluorescence quantum yield:	0.24
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.04

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