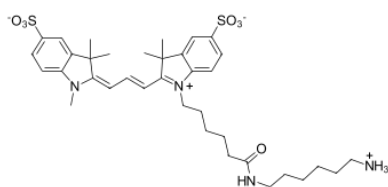


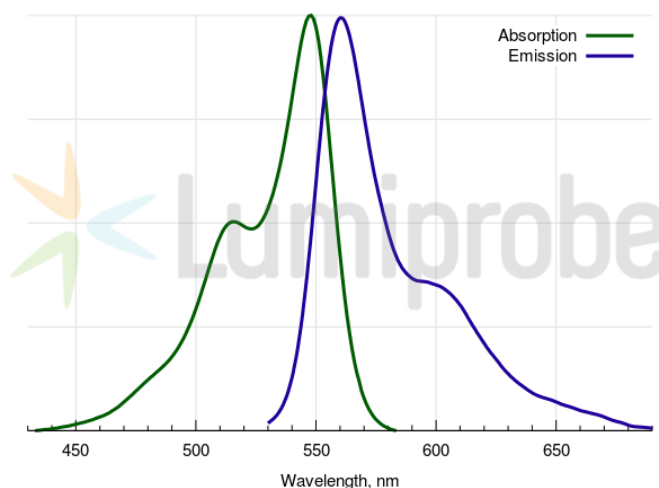
Sulfo-Cyanine3 amine

A water soluble dye with amino group, useful for the conjugation with electrophiles, and for enzymatic transamination labeling.

Sulfo-Cyanine3 is a sulfonated analog of Cy3®, which is compatible with various fluorescence measuring equipment. The dye is highly photostable. It is also easily detectable by naked eye.



Sulfo-Cy3 amine structure



Sulfo-Cy3 absorbance and emission spectra

General properties

Appearance:	dark red solid
Molecular weight:	714.94
CAS number:	2183440-43-7
Molecular formula:	C ₃₆ H ₅₀ N ₄ O ₇ S ₂
IUPAC name:	3H-Indolium, 1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-2-[3-(1,3-dihydro-1,3,3-trimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-5-sulfo-, inner salt
Solubility:	well soluble in water (0.49 M = 350 g/L), alcohols, DMSO, DMF
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:	548
ε, L·mol ⁻¹ ·cm ⁻¹ :	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
CF ₂₆₀ :	0.03
CF ₂₈₀ :	0.06