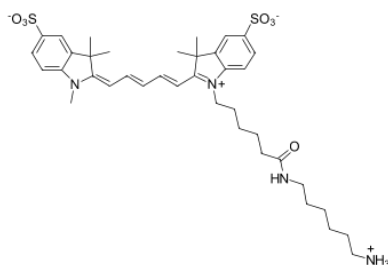


sulfo-Cyanine5 amine

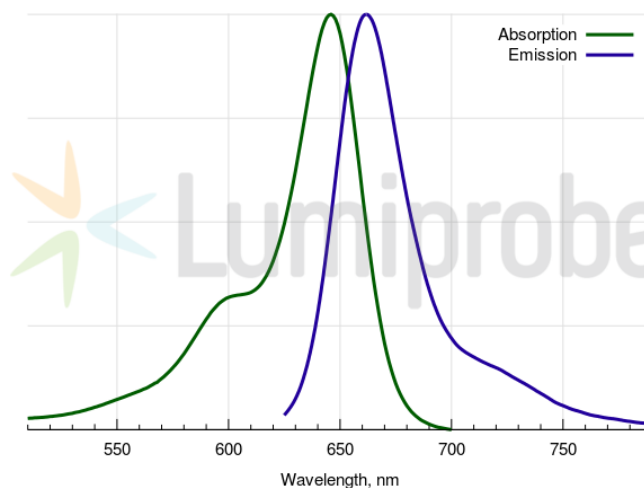
<http://www.lumiprobe.com/p/sulfo-cy5-amine>

Water soluble amino dye for enzymatic transamination labeling and other couplings with electrophiles. Cyanine5 is a popular fluorophore that is compatible with different fluorescence measuring instruments.

sulfo-Cyanine5 derivatives possess good water solubility.



Sulfo-Cyanine5 amine structure



Sulfo-Cyanine5 absorbance and emission spectra

General properties

Appearance:	dark blue solid
Molecular weight:	740.98
CAS number:	2183440-44-8
Molecular formula:	C ₃₈ H ₅₂ N ₄ O ₇ S ₂
IUPAC name:	3H-Indolium, 1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-2-[5-(1,3-dihydro-1,3,3-trimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadien-1-yl]-3,3-dimethyl-5-sulfo-, inner salt
Solubility:	moderate in water, well soluble in DMF, DMSO, alcohols
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.

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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