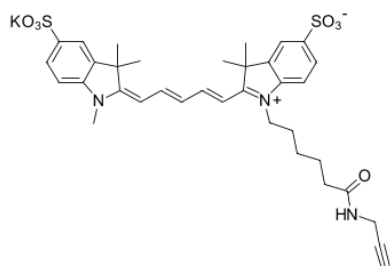


sulfo-Cyanine5 alkyne

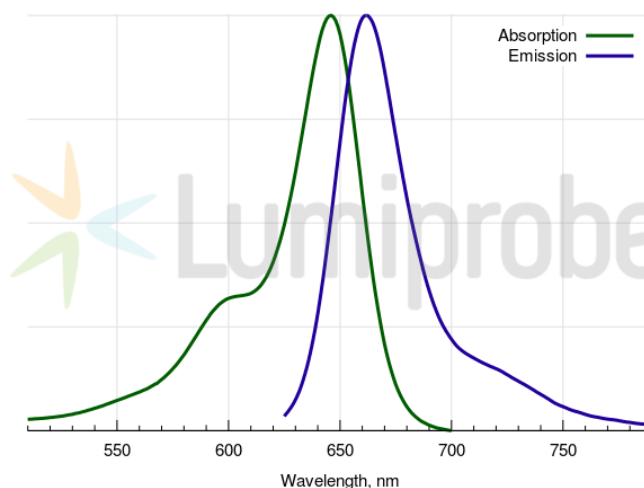
<http://www.lumiprobe.com/p/sulfo-cy5-alkyne>

Water soluble reagent with alkyne group for click chemistry. Sulfo-Cyanine5 is a sulfonated dye with high hydrophilicity and aqueous solubility, exceptionally high extinction coefficient, good quantum yield, and compatibility with many instruments.

This reagent is recommended for the conjugation with proteins, nanoparticles, and other applications where hydrophilicity is important.



Structure of Sulfo-Cyanine5 alkyne



Absorbance and emission spectra of sulfo-Cyanine5

General properties

Appearance:	dark blue solid
Molecular weight:	717.94
CAS number:	1617572-09-4 (inner salt); 1617497-19-4 (sodium salt)
Molecular formula:	C ₃₅ H ₄₀ N ₃ KO ₇ S ₂
Solubility:	very high in water, 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.

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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