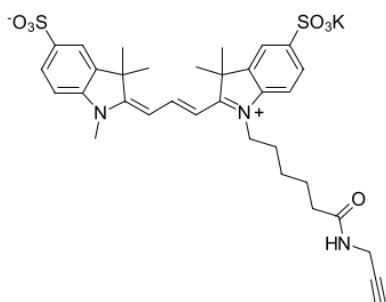


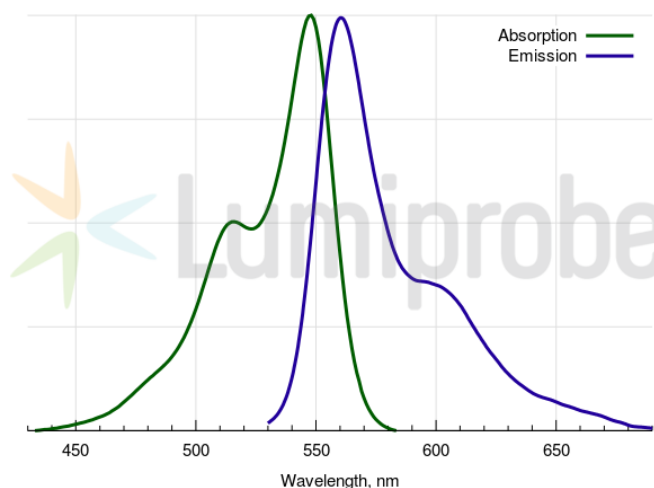
Sulfo-Cyanine3 alkyne

A water soluble alkyne dye for copper catalyzed Click Chemistry, an analog of Cy3® alkyne.

Sulfo-Cyanine3 is a fluorophore which is compatible with a wide range of fluorescent scanners, imagers, microscopes, and other instrumentation. It is a bright and photostable dye, which is also easily detected in gels by naked eye in low amounts (<1 nmol).



Structure of Sulfo-Cyanine3.5 NHS ester dye



Absorbance and emission spectra of Sulfo-Cyanine3 dye

General properties

Appearance:	dark red powder
Mass spec M+ increment:	653.2
Molecular weight:	691.90
CAS number:	2055138-87-7 (inner salt); 2055138-88-8 (sodium salt)
Molecular formula:	C ₃₃ H ₃₈ KN ₃ O ₇ S ₂
Solubility:	soluble in water (0.57 M = 40 g/L), 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

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