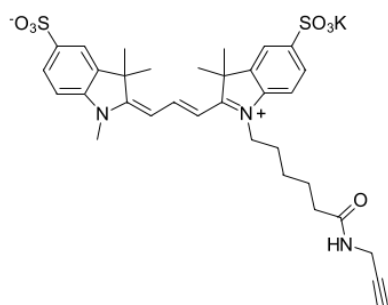


## sulfo-Cyanine3 alkyne

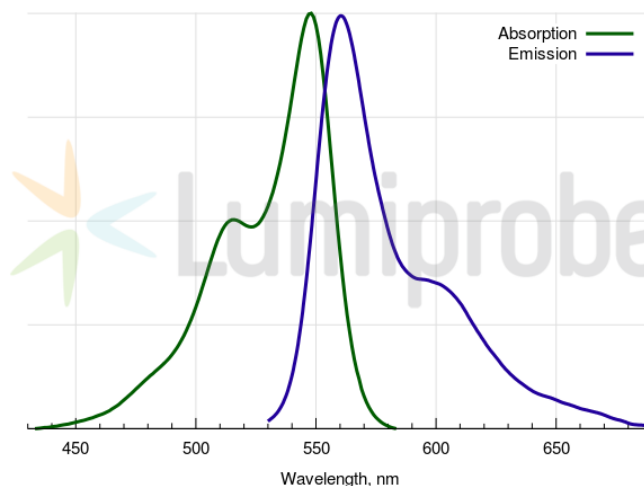
<http://www.lumiprobe.com/p/sulfo-cy3-alkyne>

A water-soluble alkyne dye for copper-catalyzed click chemistry, an analog of Cy3® alkyne.

sulfo-Cyanine3 is a fluorophore 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 the naked eye in low amounts (<1 nmol).



**Structure of sulfo-Cyanine3.5 NHS ester**



**Absorbance and emission spectra of sulfo-Cyanine3**

### 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 <sub>33</sub> H <sub>38</sub> KN <sub>3</sub> O <sub>7</sub> S <sub>2</sub>
Solubility:	soluble in water (0.57 M = 40 g/L), DMSO, DMF
Quality control:	NMR <sup>1</sup> 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:	548
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
CF <sub>260</sub> :	0.03
CF <sub>280</sub> :	0.06

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