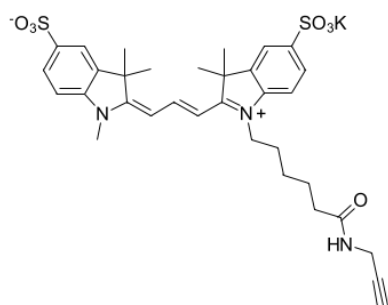


## sulfo-Cyanine3 alkyne

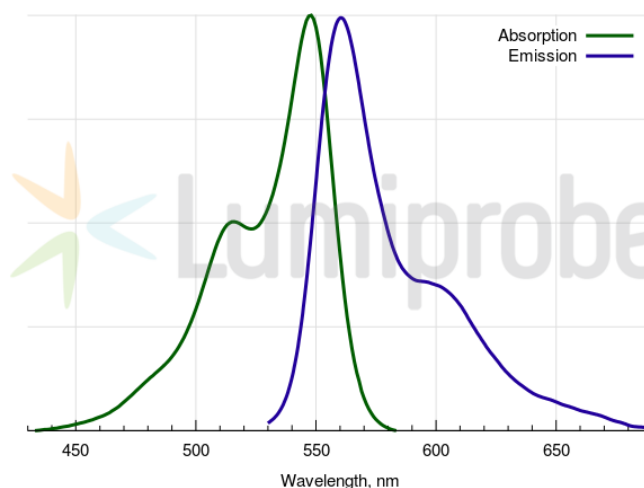
<http://www.lumiprobe.com/p/sulfo-cy3-alkyne>

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.  |
| Legal statement:        | This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products. |

### 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   |