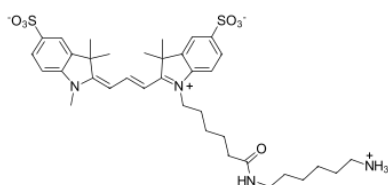


## sulfo-Cyanine3 amine

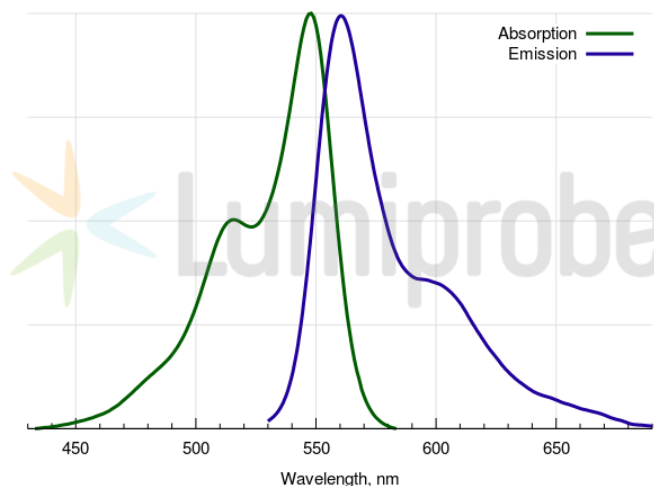
<http://www.lumiprobe.com/p/sulfo-cy3-amine>

A water-soluble dye with an amino group that is useful for the conjugation with electrophiles and for enzymatic transamination labeling.

sulfo-Cyanine3 is a sulfonated analog of Cy3®, which is compatible with various fluorescence measuring equipment. The dye is highly photostable. It is also easily detectable by the naked eye.



**Sulfo-Cy3 amine structure**



**Sulfo-Cy3 absorbance and emission spectra**

### General properties

Appearance:	dark red solid
Molecular weight:	714.94
CAS number:	2183440-43-7
Molecular formula:	C <sub>36</sub> H <sub>50</sub> N <sub>4</sub> O <sub>7</sub> S <sub>2</sub>
IUPAC name:	3H-Indolium, 1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-2-[3-(1,3-dihydro-1,3,3-trimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-5-sulfo-, inner salt
Solubility:	well soluble in water (0.49 M = 350 g/L), alcohols, 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