

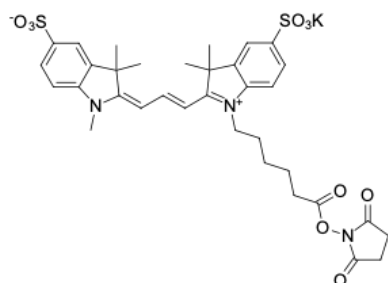
## sulfo-Cyanine3 NHS ester

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

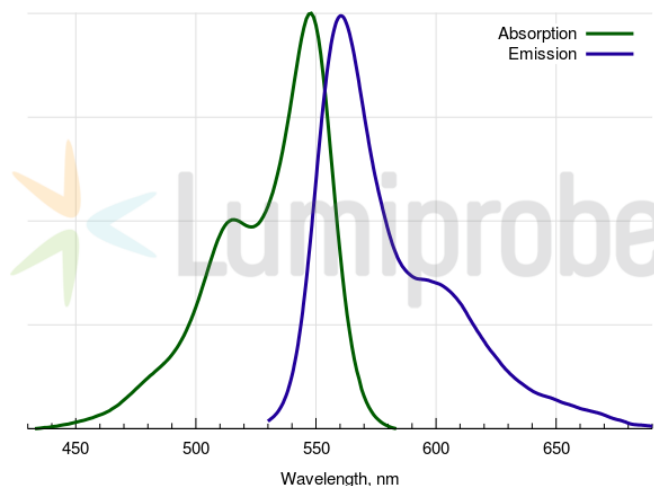
Water soluble, amino-reactive sulfo-Cyanine3 NHS ester that efficiently labels proteins and peptides in purely aqueous solution without needing organic co-solvent. Ideal for proteins with low solubility and proteins prone to denaturation.

This is the sulfonated, hydrophilic, and water-soluble dye. Non-sulfonated Cyanine3 NHS ester is also [available](#).

This product is an analog of Cy3® NHS ester. sulfo-Cyanine3 NHS ester replaces Cy3® and DyLight 549 for all applications.



**sulfo-Cyanine3 NHS ester structure**



**sulfo-Cyanine3 absorbance and emission spectra**

### General properties

Appearance:	dark red crystals
Molecular weight:	751.91
CAS number:	1424150-38-8 (sodium salt); 1424433-17-9, 1518643-34-9 (inner salt)
Molecular formula:	C <sub>34</sub> H <sub>38</sub> N <sub>3</sub> KO <sub>10</sub> S <sub>2</sub>
IUPAC name:	3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-3,3-dimethyl-5-sulfo-, inner salt, sodium salt
Solubility:	soluble in water (0.62 M = 47 g/L), in polar organic solvents (DMF, DMSO)
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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

