

## sulfo-Cyanine5 NHS ester

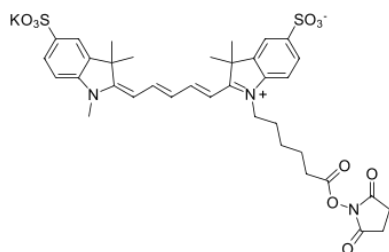
<http://www.lumiprobe.com/p/sulfo-cy5-nhs-ester>

Water-soluble Cyanine5 succinimidyl ester (SE), an equivalent of Cy5<sup>®</sup> NHS ester, for the labeling of various amine-containing molecules in aqueous phase without use of any organic co-solvent. This product is, therefore, particularly useful for the labeling of proteins that denature in the presence of organic co-solvents, as well as for proteins with low solubility.

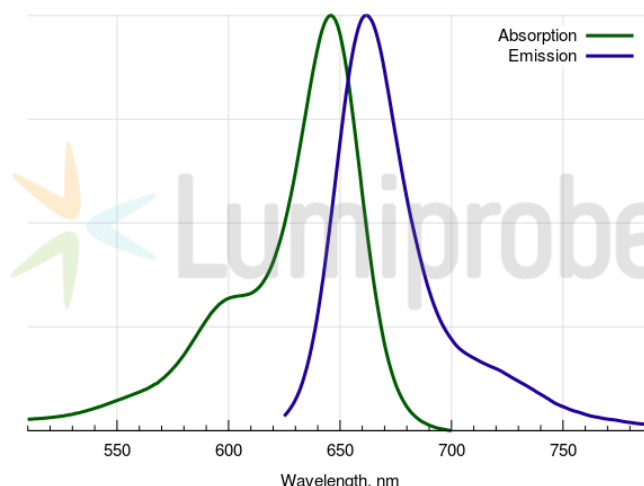
sulfo-Cyanine 5 is an analog of Cy5<sup>®</sup>, one of the most popular fluorophores, which is compatible with various equipment such as plate readers, microscopes, and imagers.

This dye is highly hydrophilic and water-soluble. A [non-sulfonated analog](#) is also available.

Can be used as a replacement for Cy5<sup>®</sup>, DyLight 649 for all applications.



**sulfo-Cyanine5 NHS ester structure**



**sulfo-Cyanine5 absorbance and emission spectra**

### General properties

Appearance:	dark blue powder
Molecular weight:	777.95
CAS number:	2230212-27-6; 146368-14-1 (N-Ethyl)
Molecular formula:	C <sub>36</sub> H <sub>40</sub> N <sub>3</sub> KO <sub>10</sub> S <sub>2</sub>
Solubility:	very good in water, good in DMF and 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:	646
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28
CF <sub>260</sub> :	0.04
CF <sub>280</sub> :	0.04

