

## sulfo-Cyanine5 NHS ester

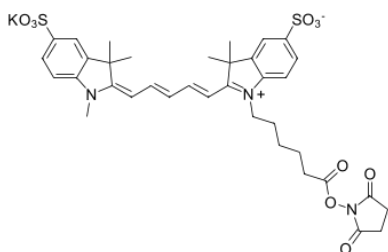
<http://www.lumiprobe.com/p/sulfo-cy5-nhs-ester>

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.

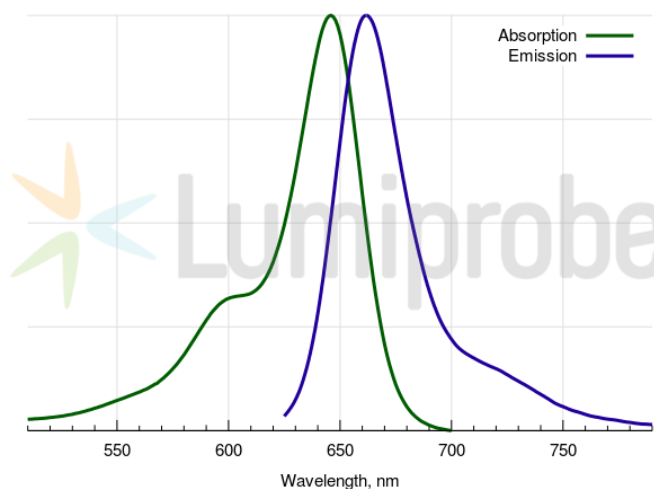
sulfo-Cyanine 5 is an analog of Cy5<sup>®</sup>, one of the most popular fluorophores, which is compatible with various equipment such as plate readers, microscopes, and imagers.

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.

### 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

Cy<sup>®</sup> is a trademark of Cytiva.