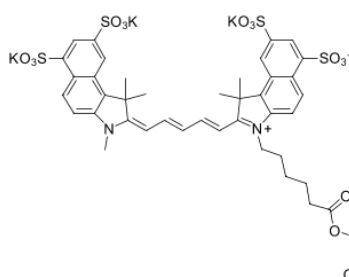


## sulfo-Cyanine5.5 NHS ester

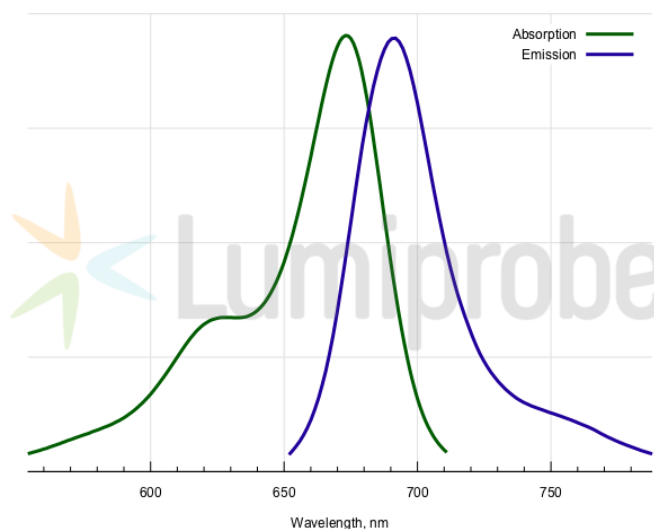
<http://www.lumiprobe.com/p/sulfo-cy55-nhs-ester>

sulfo-Cyanine5.5 NHS ester is an amine-reactive activated ester of sulfonated far-red Cyanine5.5 fluorophore, an analog of Cy5.5®. This is a reagent of choice for the labeling of antibodies, sensitive proteins, and others which require reactions in a purely aqueous environment or without any significant additions of organic co-solvents.

The dye is well-suitable for non-invasive *in vivo* NIR imaging and applications requiring low fluorescent background.



**Structure of sulfo-Cyanine5.5 NHS ester**



**Absorption and emission spectra of sulfo-Cyanine5.5**

### General properties

Appearance:	dark blue solid
Mass spec M+ increment:	884.15
Molecular weight:	1114.37
CAS number:	2419286-92-1
Molecular formula:	C <sub>44</sub> H <sub>42</sub> N <sub>3</sub> K <sub>3</sub> O <sub>16</sub> S <sub>4</sub>
Solubility:	good in water, 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.

### Spectral properties

Excitation/absorption maximum, nm:	675
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	211000
Emission maximum, nm:	694
Fluorescence quantum yield:	0.21
CF <sub>260</sub> :	0.09
CF <sub>280</sub> :	0.11

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