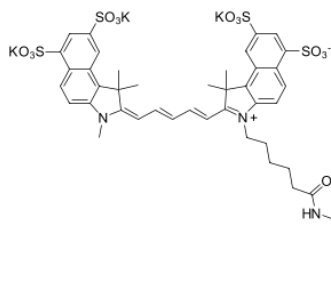


## sulfo-Cyanine5.5 maleimide

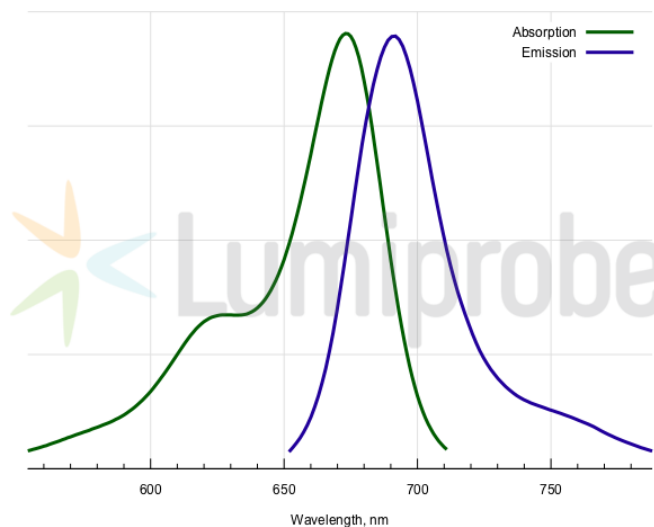
<http://www.lumiprobe.com/p/sulfo-cy55-maleimide>

sulfo-Cyanine5.5 dye is a water-soluble far-red to NIR emitting dye that is very hydrophilic due to the presence of four sulfo groups. sulfo-Cyanine5.5 derivatives exhibit high water solubility. The dye is perfect for labeling sensitive proteins, nanoparticles, and highly hydrophilic biopolymers.

This maleimide is a thiol-reactive dye that selectively labels cysteine residues. Disulfide bonds of native proteins should be reduced with an appropriate reducing agent, such as TCEP, according to our recommended protocol.



**Structure of Sulfo-Cyanine5.5 maleimide**



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

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	1024.2
Molecular weight:	1139.43
CAS number:	2183440-58-4 (potassium salt); 2183440-57-3 (inner salt)
Molecular formula:	C <sub>46</sub> H <sub>45</sub> K <sub>3</sub> N <sub>4</sub> O <sub>15</sub> S <sub>4</sub>
Solubility:	good in water, DMSO, DMF
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:	673
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	211000
Emission maximum, nm:	691
Fluorescence quantum yield:	0.21
CF <sub>260</sub> :	0.09
CF <sub>280</sub> :	0.11