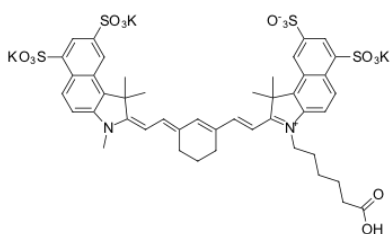


## sulfo-Cyanine7.5 carboxylic acid

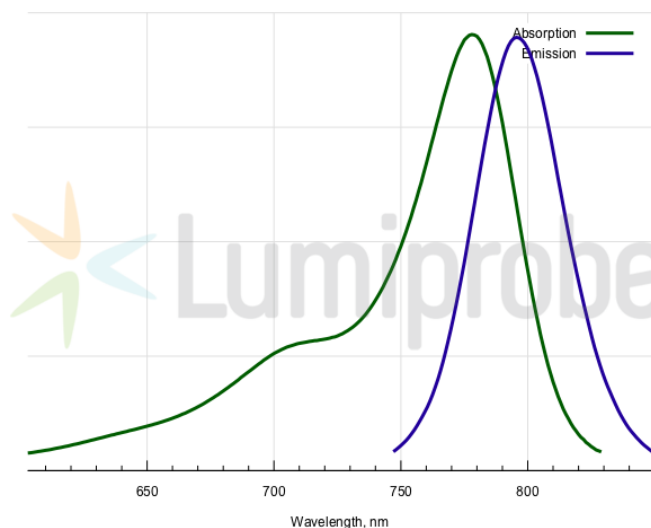
<http://www.lumiprobe.com/p/sulfo-cy75-carboxylic-acid>

sulfo-Cyanine7.5 is a water-soluble, near-infrared fluorescent dye. The structure of the dye is similar to indocyanine green (ICG), but it contains a rigid trimethine linker increasing its fluorescence quantum yield.

This fluorophore is useful for near-infrared imaging. sulfo-Cyanine7.5 carboxylic acid contains a free carboxy group.



**Structure of sulfo-Cyanine7.5 carboxylic acid**



**Absorption and emission spectra of sulfo-Cyanine7.5**

### General properties

Appearance:	dark green solid
Molecular weight:	1083.41
Molecular formula:	C <sub>45</sub> H <sub>45</sub> K <sub>3</sub> N <sub>2</sub> O <sub>14</sub> S <sub>4</sub>
Solubility:	good in water, DMF, DMSO
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 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:	778
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	222000
Emission maximum, nm:	797
Fluorescence quantum yield:	0.21
CF <sub>260</sub> :	0.09
CF <sub>280</sub> :	0.09

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