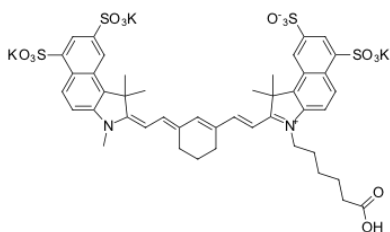


## sulfo-Cyanine7.5 carboxylic acid

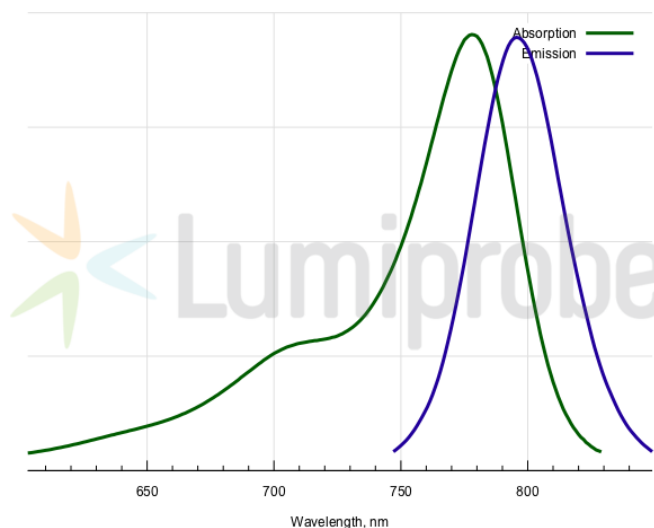
<http://www.lumiprobe.com/p/sulfo-cy75-carboxylic-acid>

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:	$C_{45}H_{45}K_3N_2O_{14}S_4$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR $^1H$ , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ 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
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	222000
Emission maximum, nm:	797
Fluorescence quantum yield:	0.21
$CF_{260}$ :	0.09
$CF_{280}$ :	0.09

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