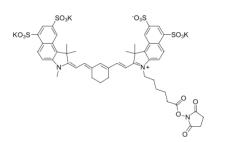


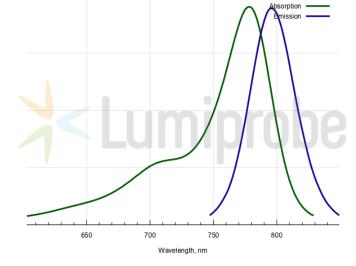
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## sulfo-Cyanine7.5 NHS ester

http://www.lumiprobe.com/p/sulfo-cy75-nhs-ester

sulfo-Cyanine7.5 is a near-infrared water-soluble and hydrophilic dye for the NIR imaging applications. The structure and spectra of the dye resemble indocyanine green (ICG) which has been approved for use in humans for years. However, unlike ICG, sulfo-Cyanine7.5 contains a trimethylene bridge that increases its quantum yield compared to ICG and has a linker arm for its attachment to proteins, peptides, and other molecules. This derivative is an NHS ester for the modification of amine groups.





Structure of sulfo-Cyanine7.5 NHS ester

Absorption and emission spectra of sulfo-Cyanine7.5

## **General properties**

Appearance:	dark green solid
Mass spec M+ increment:	950.2
Molecular weight:	1180.47
Molecular formula:	$C_{49}H_{48}N_3K_3O_{16}S_4$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receival 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