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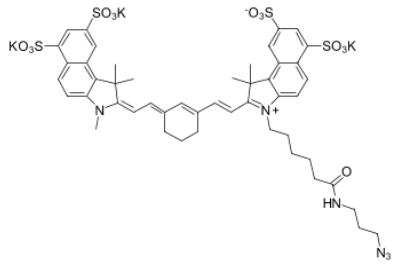
sulfo-Cyanine7.5 azide

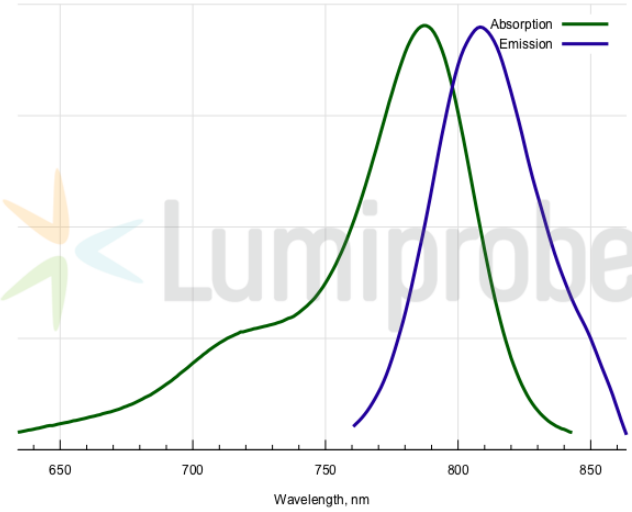
http://www.lumiprobe.com/p/sulfo-cy75-azide

sulfo-Cyanine7.5 is a heptamethyne cyanine dye for the near-infrared region of the spectrum, which is very hydrophilic and water-soluble. The fluorophore resembles ICG (Indocyanine Green), has a long history of *in vivo* use, and is even approved for human angiography. However, compared to ICG, sulfo-Cyanine7.5 has a significantly improved fluorescence quantum yield due to the rugged polymethine chain reinforced with a trimethylene bridge.

sulfo-Cyanine7.5 is available as a number of reactive derivatives. This azide can be used for the easy labeling of various biomolecules by copper-catalyzed or copper-free click chemistry.



Structure of Sulfo-Cyanine7.5 azide



Absorption and emission spectra of sulfo-Cyanine7.5 fluorophore

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	1050.3
Molecular weight:	1165.51
Molecular formula:	$C_{48}H_{51}N_6K_3O_{13}S_4$
Solubility:	good in water, DMSO, DMF
Quality control:	NMR ^1H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	778
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	222000
Emission maximum, nm:	797
Fluorescence quantum yield:	0.21
CF_{260}:	0.09
CF_{280}:	0.09