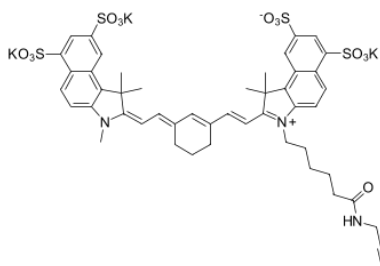


sulfo-Cyanine7.5 alkyne

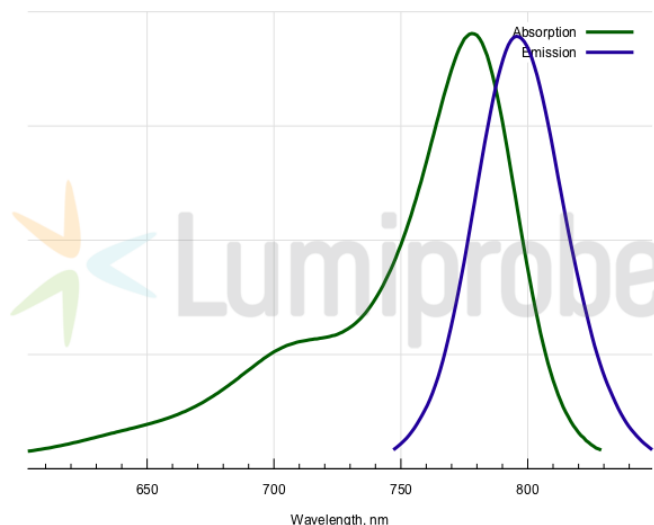
<http://www.lumiprobe.com/p/sulfo-cy75-alkyne>

sulfo-Cyanine7.5 is a near-infrared, sulfonated cyanine dye with a rigidized trimethylene chain. The fluorophore is structurally similar to the Indocyanine Green (ICG) dye approved for human use. However, sulfo-Cyanine7.5 has an improved quantum yield because of its rigid structure.

This is an alkyne derivative for copper-catalyzed click chemistry reaction. sulfo-Cyanine7.5 is a very hydrophilic and water-soluble dye. The reagent is useful for labeling biomolecules and *in vivo* imaging.



Structure of sulfo-Cyanine7.5 alkyne



Absorption and emission spectra of sulfo-Cyanine7.5

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	1005.2
Molecular weight:	1120.46
Molecular formula:	C ₄₈ H ₄₈ N ₃ K ₃ O ₁₃ S ₄
Solubility:	good in water, DMSO, DMF
Quality control:	NMR ¹ 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.
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·mol ⁻¹ ·cm ⁻¹ :	222000
Emission maximum, nm:	797
Fluorescence quantum yield:	0.21
CF ₂₆₀ :	0.09
CF ₂₈₀ :	0.09