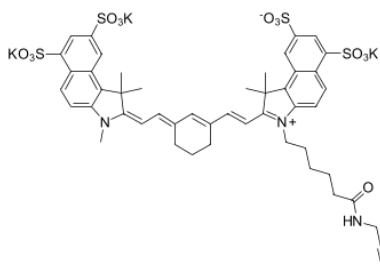


Sulfo-Cyanine7.5 alkyne

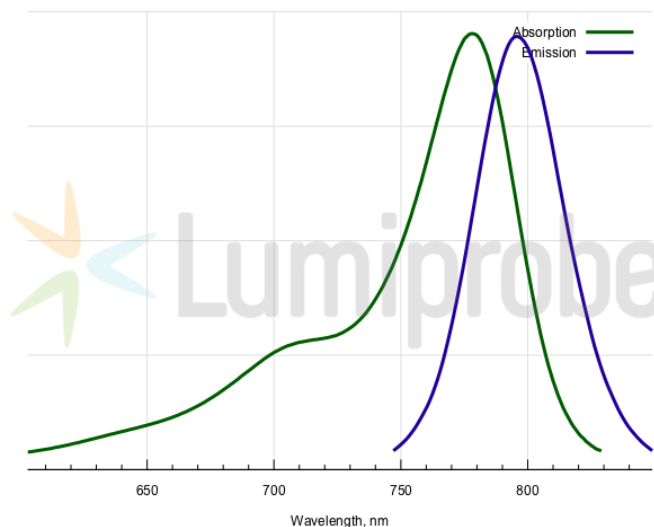
<http://www.lumiprobe.com/p/sulfo-cy75-alkyne>

Sulfo-Cyanine7.5 is a near infrared, sulfonated cyanine dye with rigidized trimethylene chain. The fluorophore is structurally very similar to indocyanine green (ICG) dye that has been approved for human use. However, the dye has an improved quantum yield because of its rigidized structure.

This is an alkyne derivative for copper catalyzed Click chemistry.



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.

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