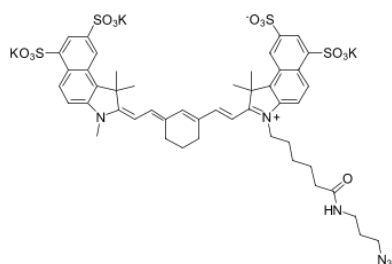


sulfo-Cyanine7.5 azide

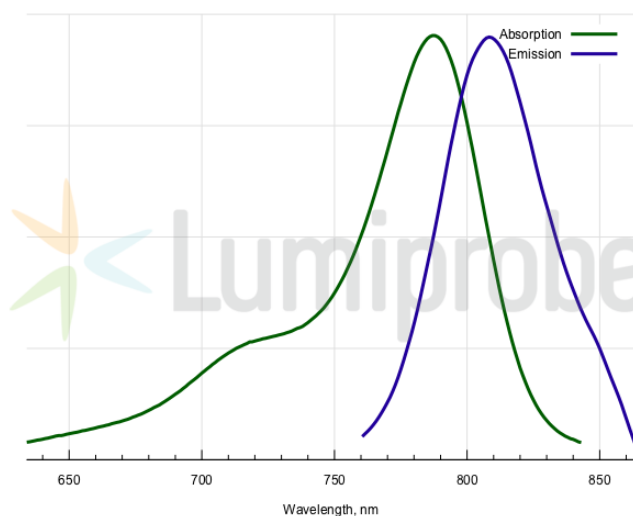
<http://www.lumiprobe.com/p/sulfo-cy75-azide>

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 ₆ 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