

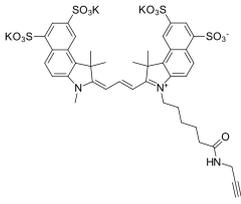
Sulfo-Cyanine 3.5 alkyne (A270268)

Specifications:

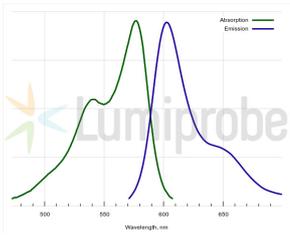
Name:	Sulfo-Cyanine 3.5 alkyne
Description:	Sulfo-Cyanine 3.5 is a dye with fluorescence in the orange spectrum range (absorption maximum at 576 nm; emission maximum at 603 nm). Its absorption and emission spectra are between those of Cyanine 3 and Cyanine 5. Therefore, Sulfo-Cyanine 3.5 is commonly used as a FRET-donor in a pair with Cyanine 5, as a FRET-acceptor in a pair with Cyanine 3, and in BRET experiments. Sulfo-Cyanine 3.5 is a sulfonated derivative with four sulfo groups, which allows its high hydrophilicity and performing all reactions with this reagent in aqueous solutions without adding organic solvents. The reagent is an alkyne derivative of sulfo-Cyanine 3.5 dye for copper-catalyzed Click chemistry. The terminal alkynyl (acetylene) group allows conjugating the fluorophore with the molecules containing an azide group through 1,3-dipolar cycloaddition in the presence of a copper(I) catalyst.
Absorption Maxima:	576 nm
Extinction Coefficient:	139000 M ⁻¹ cm ⁻¹
Emission Maxima:	603 nm
Fluorescence Quantum Yield:	0.11
CF ₂₆₀ :	0.16
CF ₂₈₀ :	0.17
Mass Spec M ⁺ Shift after Conjugation:	914.2
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₄₁ H ₄₀ N ₃ K ₃ O ₁₃ S ₄
Molecular Weight:	1028.32 kDa
Product Form:	Dark colored solid.
Solubility:	Good in water, DMF, and DMSO.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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Images:



Structure of Sulfo-Cyanine 3.5 alkyne.



Absorption and emission spectra of Sulfo-Cyanine 3.5.