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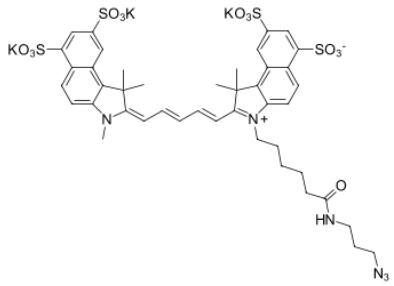
sulfo-Cyanine5.5 azide

http://www.lumiprobe.com/p/sulfo-cy55-azide

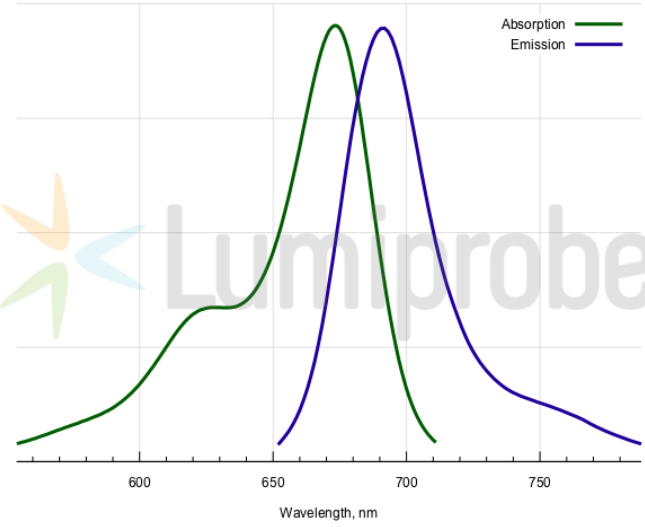
sulfo-Cyanine5.5 is a water-soluble, hydrophilic fluorophore with emission in the far-red area of the spectrum, an analog of Cy5.5®. Like other cyanine dyes, sulfo-Cyanine5.5 has an outstanding molar extinction coefficient, giving rise to its bright fluorescence. The molecule contains four sulfo groups that provide hydrophilicity and negative charge to the fluorophore — this minimizes non-specific binding.

The azide group of Sulfo-Cyanine5.5 azide can be conjugated with terminal alkynes in the presence of copper(I) catalyst or with cycloalkynes in copper-free strain-promoted reaction.

The reagent possesses high hydrophilicity and is recommended for labeling biomolecules in an aqueous environment.



Structure of sulfo-Cyanine5.5 azide



Absorption and emission spectra of sulfo-Cyanine5.5

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	984.2
Molecular weight:	1099.41
CAS number:	2382994-65-0
Molecular formula:	$C_{43}H_{45}K_3N_6O_{13}S_4$
Solubility:	good in water, DMF, DMSO
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:	673
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	211000
Emission maximum, nm:	691
Fluorescence quantum yield:	0.21

CF_{260}:	0.09
CF_{280}:	0.11