

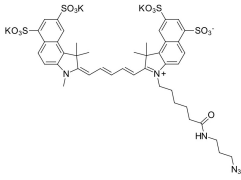
## Sulfo-Cyanine 5.5 azide (A270283)

### Specifications:

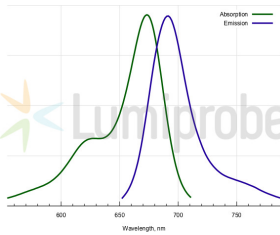
Name:	Sulfo-Cyanine 5.5 azide
Description:	Sulfo-Cyanine 5.5 is a water-soluble, hydrophilic fluorophore which possesses emission in far red area of the spectrum, an analog of Cy5.5®. As with other cyanine dyes, sulfo-Cyanine 5.5 has an outstanding molar extinction coefficient which gives rise to its 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-Cyanine 5.5 azide can be conjugated with terminal alkynes in the presence of copper(I) catalyst, or with cycloalkynes in copper free strain promoted reaction.
Absorption Maxima:	673 nm
Extinction Coefficient:	235000 M <sup>-1</sup> cm <sup>-1</sup>
Emission Maxima:	691 nm
CAS Number:	2382994-65-0
CF <sub>260</sub> :	0.09
CF <sub>280</sub> :	0.11
Mass Spec M+ Shift after Conjugation:	984.2
Purity:	95% (by <sup>1</sup> H NMR and HPLC-MS).
Molecular Formula:	C <sub>43</sub> H <sub>45</sub> K <sub>3</sub> N <sub>6</sub> O <sub>13</sub> S <sub>4</sub>
Molecular Weight:	1099.41 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:



Sulfo-Cyanine 5.5 azide structure.



Sulfo-Cyanine 5.5 absorption and emission spectra.