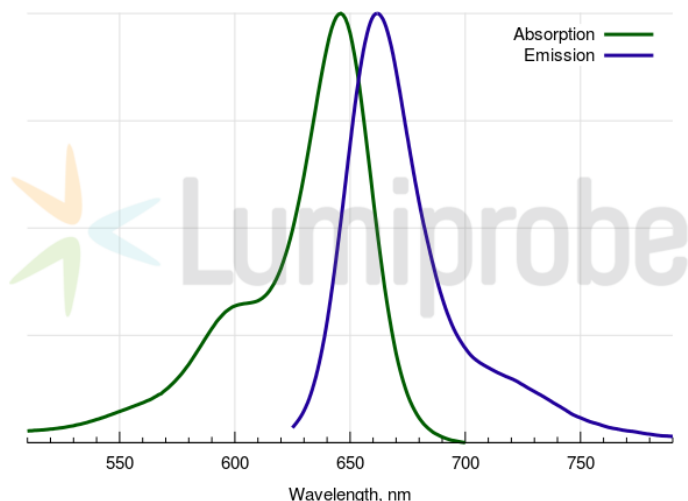


## sulfo-Cyanine5 alkyne NHS ester

<http://www.lumiprobe.com/p/sulfo-cyanine5-alkyne-nhs-ester>

sulfo-Cyanine5 alkyne NHS-ether is a water-soluble bifunctional cross-linker containing a red water-soluble sulfo-Cyanine5 dye core and two reactive groups of a terminal alkyne and NHS ester.

Activated NHS esters are reactive with primary and secondary amino groups, and they can be used to label amino groups in proteins, peptides, amino-modified oligonucleotides, and other target molecules. The terminal alkyne group is used for copper-catalyzed click chemistry (CuAAC) or Sonogashira coupling.



### Absorbance and emission spectra of sulfo-Cyanine5

#### General properties

Appearance:	dark blue powder
Molecular weight:	915.14
Molecular formula:	$C_{44}H_{51}KN_4O_{11}S_2$
Solubility:	good in DMF, DMSO, water
Quality control:	NMR $^1H$ and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

#### Spectral properties

Excitation/absorption maximum, nm:	646
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28
$CF_{260}$ :	0.04
$CF_{280}$ :	0.04