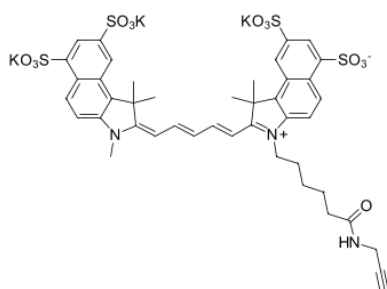


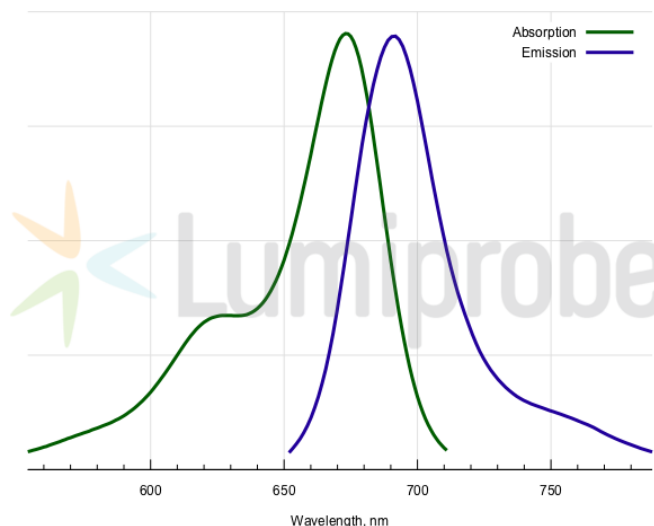
## sulfo-Cyanine5.5 alkyne

<http://www.lumiprobe.com/p/sulfo-cy55-alkyne>

sulfo-Cyanine5.5 is a far-red emitting fluorophore. It contains four sulfo groups, which provide great hydrophilicity and aqueous solubility. The reagent can be conjugated with various azides through a copper-catalyzed click chemistry reaction.



**sulfo-Cyanine5.5 alkyne**



**Absorption and emission spectra of sulfo-Cyanine5.5**

### General properties

Appearance: dark blue solid  
Molecular weight: 1054.36  
Molecular formula:  $C_{44}H_{40}N_4K_4O_{10}S_4$   
IUPAC name: (E)-4-[(2E,4E)-5-{3,3-Dimethyl-5-[6-oxo-6-(2-propynylamino)hexyl]-10-(oxysulfonyl)-12-sulfo-5-azatricyclo[7.4.0.0<sup>2,6</sup>]trideca-1,4,6,8,10,12-hexaen-4-yl]-2,4-pentadienylidene]-3,3-dimethyl-5-methyl-5-azatricyclo[7.4.0.0<sup>2,6</sup>]trideca-1,6,8,10,12-pentaene-10,12-disulfonic acid tripotassium salt  
Solubility: good in water, DMF, DMSO  
Quality control: NMR <sup>1</sup>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.  
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  
 $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 211000  
Emission maximum, nm: 691  
Fluorescence quantum yield: 0.21  
CF<sub>280</sub>: 0.09  
CF<sub>280</sub>: 0.11