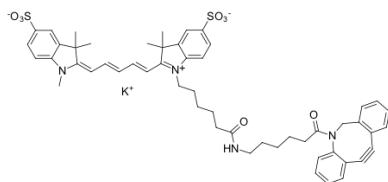


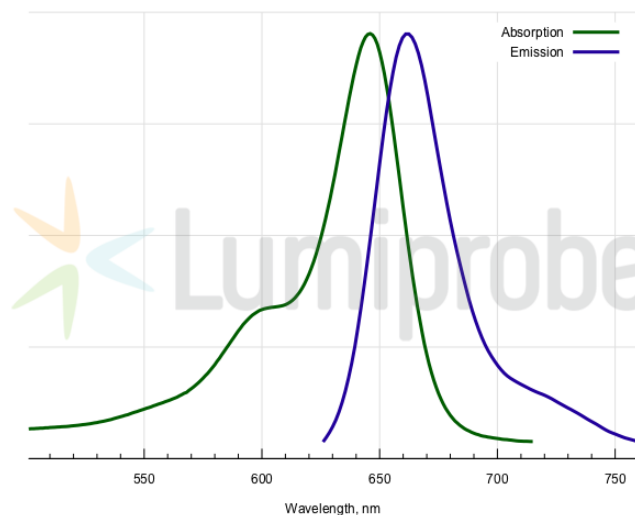
sulfo-Cyanine5 DBCO

<http://www.lumiprobe.com/p/sulfo-cy5-dbc>

Copper-free click chemistry reaction between strained cycloalkynes (cyclooctynes) and azides is a very fast and robust reaction. It can be used for fast labeling with fluorescent dyes. This reagent is a derivative of water-soluble sulfo-Cyanine5 dye, which emits in a red channel. It is useful for the labeling of biomolecules in aqueous media.



Structure of sulfo-Cyanine5 DBCO



Absorption and emission spectra of sulfo-Cyanine5

General properties

Appearance:	dark colored solid
Molecular weight:	981.27
Molecular formula:	$C_{53}H_{57}N_4KO_8S_2$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at $-20^\circ C$ 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:	646
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28