

Lumiprobe Corporation

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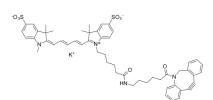
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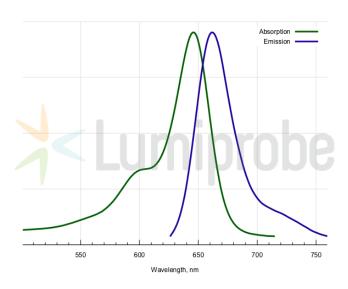
sulfo-Cyanine5 DBCO

http://www.lumiprobe.com/p/sulfo-cy5-dbco

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 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: 646 ϵ , L·mol⁻¹·cm⁻¹: 271000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.28