

Lumiprobe Corporation

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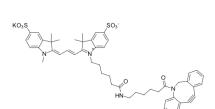
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sulfo-Cyanine3 DBCO

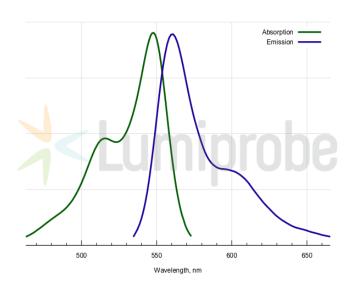
http://www.lumiprobe.com/p/sulfo-cy3-dbco

sulfo-Cyanine3 DBCO is a water-soluble fluorescent dye with cycloalkyne group for copper-free click chemistry.

DBCO (dibenzocyclooctyne) is a cyclooctyne with very high reactivity towards azides, still possessing good stability.



Structure of sulfo-Cyanine3 DBCO



Absorption and emission spectra of sulfo-Cyanine3

General properties

Appearance: red solid

Mass spec M+ increment: 916.4

Molecular weight: 955.23

Molecular formula: $C_{51}H_{55}N_aKO_aS_2$

Solubility: soluble in water (0.11 M = 11 g/L), DMF, DMSO

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 548 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 162000 Emission maximum, nm: 563 Fluorescence quantum yield: 0.1