

Lumiprobe Corporation

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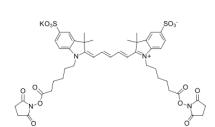
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sulfo-Cyanine5 bis-NHS ester

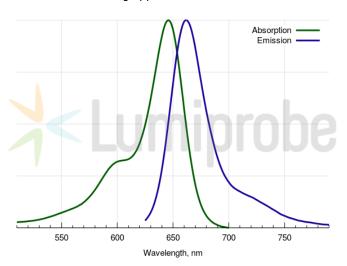
http://www.lumiprobe.com/p/sulfo-cy5-bis-nhs-ester

sulfo-Cyanine5 bis-NHS ester is a water soluble bifunctional dye possessing two NHS ester functions. It is an analog of Cy5® bis-NHS ester.

The dye is useful for the cross-conjugation of amines, and for other advanced labeling applications.



Structure of Sulfo-Cyanine5 bis-NHS ester



Absorption and emission spectra of sulfo-Cyanine5

General properties

Appearance: dark blue powder

Molecular weight: 975.14

Molecular formula: $C_{45}H_{51}KN_4O_{14}S_2$

Solubility: good in DMF, DMSO, water Quality control: NMR ¹H, HPLC-MS (895%)

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.

Spectral properties

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

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