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8:00 - 17:00 HKT

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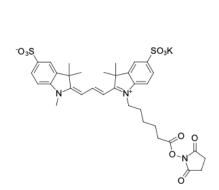
sulfo-Cyanine3 NHS ester

http://www.lumiprobe.com/p/sulfo-cy3-nhs-ester

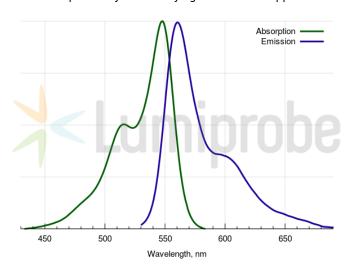
Water soluble, amino-reactive sulfo-Cyanine3 NHS ester that efficiently labels proteins and peptides in purely aqueous solution without needing organic co-solvent. Ideal for proteins with low solubility and proteins prone to denaturation.

This is the sulfonated, hydrophilic, and water-soluble dye. Non-sulfonated Cyanine3 NHS ester is also available.

This product is an analog of Cy3® NHS ester. sulfo-Cyanine3 NHS ester replaces Cy3® and DyLight 549 for all applications.



sulfo-Cyanine3 NHS ester structure



sulfo-Cyanine3 absorbance and emission spectra

General properties

Appearance: dark red crystals

Molecular weight: 751.91

CAS number: 1424150-38-8 (sodium salt); 1424433-17-9, 1518643-34-9 (inner salt)

Molecular formula: $C_{34}H_{38}N_3KO_{10}S_2$

IUPAC name: 3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-

yl]-1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-3,3-dimethyl-5-sulfo-, inner salt,

sodium salt

Solubility: soluble in water (0.62 M = 47 g/L), in polar organic solvents (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.

Spectral properties

Excitation/absorption maximum, nm: 548 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 162000 Emission maximum, nm: 563 Fluorescence quantum yield: 0.1 CF_{260} : 0.03 CF_{280} : 0.06

Cy® is a trademark of Cytiva.