

Lumiprobe Corporation

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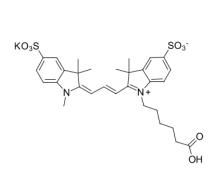
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sulfo-Cyanine3 carboxylic acid

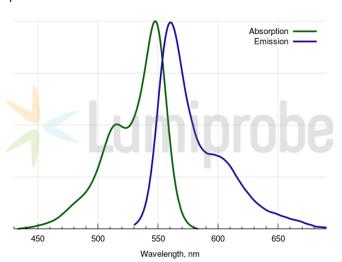
http://www.lumiprobe.com/p/sulfo-cy3-carboxylic-acid

Water soluble sulfo-Cyanine3 dye, free unactivated monofunctional carboxylic acid. This reagent can be used as a reference fluorophore for Cy3® detection channel, as a control in experiments with other sulfo-Cyanine3 labeled products. Carboxylic acid can be also activated with carbodiimides.

Absorbance and emission spectra are identical with Cy3® fluorophore.



sulfo-Cy3 carboxylic acid fluorophore structure



Sulfo-Cyanine3 absorbance and emission spectra

General properties

Appearance: dark red crystals

Molecular weight: 654.84

CAS number: 1121756-11-3 (inner salt); 1941997-61-0 (sodium salt)

Molecular formula: $C_{30}H_{35}N_2KO_8S_2$

IUPAC name: 3H-Indolium, 2-[3-[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-

ylidene]-1-propen-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt, potassium salt

Solubility: Well soluble in water, DMF, DMSO (0.55 M = 360 g/L). Practically insoluble in non-

polar organic solvents.

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.

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

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