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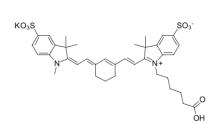
sulfo-Cyanine7 carboxylic acid

http://www.lumiprobe.com/p/sulfo-cy7-carboxylic-acid

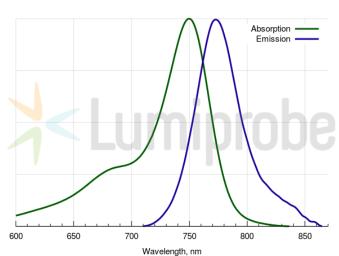
sulfo-Cyanine7 carboxylic acid is a non-reactive water-soluble near-infrared dye.

The reagent is useful as a fluorescent marker in the NIR range when attachment to other molecules is not desired. It has high hydrophilicity and aqueous solubility, improved quantum yield in the NIR range, and a very high molar extinction coefficient.

This reagent contains free carboxylic acid function. Pre-activated activated ester - <u>sulfo-Cyanine7 NHS ester</u> is also available.



Sulfo-Cyanine7 carboxylic acid



Sulfo-Cyanine7 absorbance and emission spectra

General properties

Appearance: dark green powder

Molecular weight: 746.97

CAS number: 2104632-29-1 (inner salt); 2104632-30-4 (sodium salt)

Molecular formula: $C_{37}H_{43}N_2KO_8S_2$

Soluble in water, DMF, DMSO (0.10 M = 76 g/L). Practically insoluble in non-polar

organic solvents.

Quality control: NMR ¹H, HPLC (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: 750 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 240600 Emission maximum, nm: 773 Fluorescence quantum yield: 0.24 CF_{260} : 0.04 CF_{280} : 0.04

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