

## **Lumiprobe Corporation**

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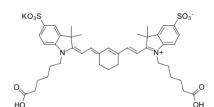
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## sulfo-Cyanine7 dicarboxylic acid

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

sulfo-Cyanine7 dicarboxylic acid (Cy7 analog) is a water-soluble, bifunctional NIR dye derivative bearing two carboxylic acid functional groups.



600 650 700 750 800 Wavelength, nm

Absorption

Structure of sulfo-Cyanine7 dicarboxylic acid

Absorption and emission spectra of sulfo-Cyanine7

## **General properties**

Appearance: dark green solid

Molecular weight: 847.09

Molecular formula:  $C_{42}H_{51}N_2KO_{10}S_2$ 

Solubility: good in water, DMF, DMSO

Quality control: NMR <sup>1</sup>H, 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: 750  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 240600 Emission maximum, nm: 773 Fluorescence quantum yield: 0.24  $CF_{260}$ : 0.04  $CF_{280}$ : 0.04