

## **Lumiprobe Corporation**

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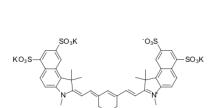
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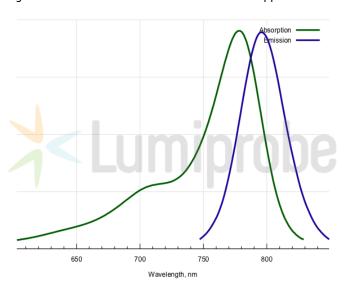
## sulfo-Cyanine 7.5 dimethyl

http://www.lumiprobe.com/p/sulfo-cy75-dimethyl

sulfo-Cyanine 7.5 dimethyl is a non-functionalized, water-soluble cyanine dye with bright near-infrared fluorescence. The dye possesses an extremely high molar absorption coefficient, making it a useful near infrared label for technical applications.



Structure of sulfo-Cyanine 7.5 dimethyl



Absorption and emission spectra of sulfo-Cyanine 7.5

## **General properties**

Appearance: green powder

Molecular weight: 983.30

Molecular formula:  $C_{40}H_{37}K_3N_2O_{12}S_4$ 

Solubility: good in water, DMF, DMSO, low in most organic solvents

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.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for

safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

## **Spectral properties**

Excitation/absorption maximum, nm: 778  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 222000 Emission maximum, nm: 797 Fluorescence quantum yield: 0.21  $CF_{260}$ : 0.09  $CF_{280}$ : 0.09