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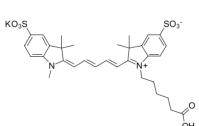
sulfo-Cyanine5 carboxylic acid

http://www.lumiprobe.com/p/sulfo-cy5-carboxylic-acid

Non-activated sulfo-Cyanine5 carboxylic acid, water soluble dye. This dye is highly hydrophilic and water-soluble. Nonsulfonated analog is available.

The fluorophore is an equivalent of Cy5® carboxylic acid.

For labeling applications consider using pre-activated sulfo-Cy5 NHS ester



Absorption 550 600 700 650 750 Wavelength, nm

Sulfo-Cyanine5 carboxylic acid dye structure

Sulfo-Cyanine5 absorbance and emission spectra

General properties

dark blue powder Appearance:

Molecular weight: 680,87

CAS number: 1144107-82-3 (potassium salt), 1121756-16-8 (inner salt), 2098639-31-5 (sodium

salt)

Molecular formula: $C_{32}H_{37}N_2KO_8S_2$

Solubility: Well soluble in water, DMF, DMSO (0.35 M = 240 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.

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

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: 646 ε. L·mol⁻¹·cm⁻¹: 271000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.28 0.04 CF₂₆₀: 0.04 CF₂₈₀:

Cy® is a trademark of GE Healthcare.