

Lumiprobe Corporation

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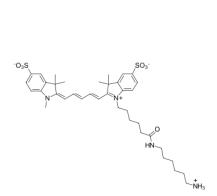
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sulfo-Cyanine5 amine

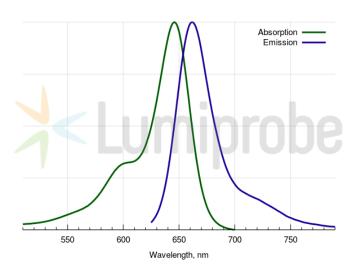
http://www.lumiprobe.com/p/sulfo-cy5-amine

Water soluble amino dye for enzymatic transamination labeling and other couplings with electrophiles. Cyanine5 is a popular fluorophore that is compatible with different fluorescence measuring instruments.

sulfo-Cyanine5 derivatives possess good water solubility.



Sulfo-Cyanine5 amine structure



Sulfo-Cyanine5 absorbance and emission spectra

General properties

Appearance: dark blue solid

Molecular weight: 740.98

CAS number: 2183440-44-8 Molecular formula: $C_{38}H_{52}N_4O_7S_2$

IUPAC name: 3H-Indolium, 1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-2-[5-(1,3-dihydro-1,3,3-

trimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadien-1-yl]-3,3-dimethyl-5-sulfo-, inner

salt

Solubility: moderate in water, well soluble in DMF, DMSO, alcohols

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. 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: 646 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 271000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.28 CF_{260} : 0.04 CF_{280} : 0.04

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