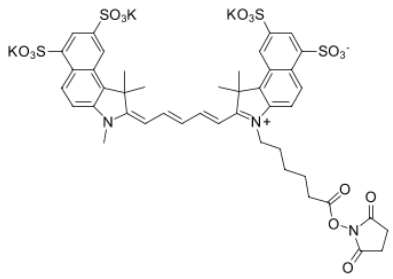
Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

sulfo-Cyanine5.5 NHS ester

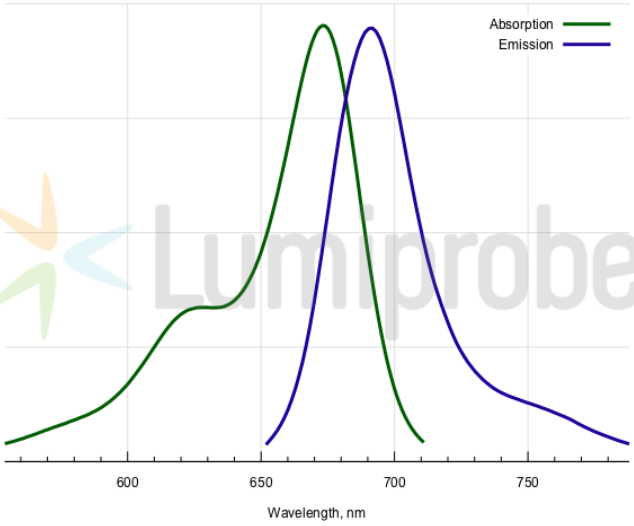
http://www.lumiprobe.com/p/sulfo-cy55-nhs-ester

sulfo-Cyanine5.5 NHS ester is an amine-reactive activated ester of sulfonated far-red Cyanine5.5 fluorophore, an analog of Cy5.5®. This is a reagent of choice for the labeling of antibodies, sensitive proteins, and others which require reactions in a purely aqueous environment or without any significant additions of organic co-solvents.

The dye is well-suitable for non-invasive *in vivo* NIR imaging and applications requiring low fluorescent background.



Structure of sulfo-Cyanine5.5 NHS ester



Absorption and emission spectra of sulfo-Cyanine5.5

General properties

Appearance:	dark blue solid
Mass spec M+ increment:	884.15
Molecular weight:	1114.37
CAS number:	2419286-92-1
Molecular formula:	$C_{44}H_{42}N_3K_3O_{16}S_4$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR ^1H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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:	675
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	211000
Emission maximum, nm:	694
Fluorescence quantum yield:	0.21
CF_{260}:	0.09
CF_{280}:	0.11

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