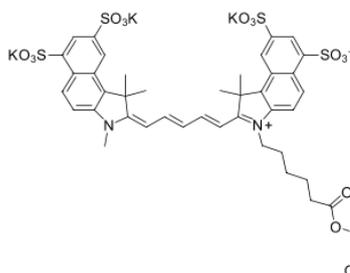


sulfo-Cyanine5.5 NHS ester

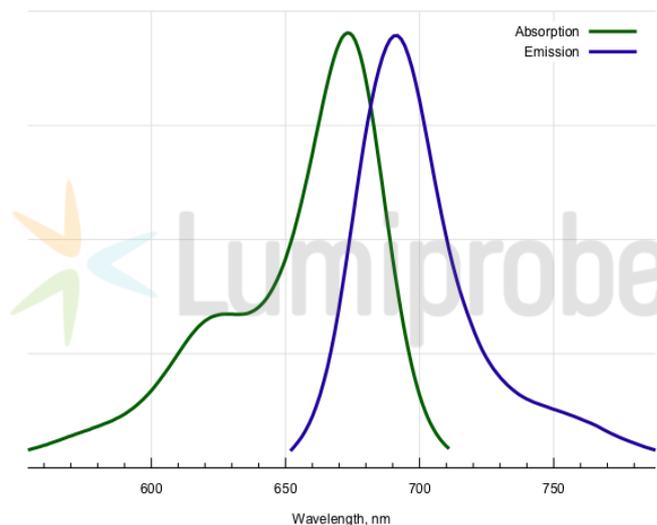
<http://www.lumiprobe.com/p/sulfo-cy55-nhs-ester>

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 ₃ K ₃ O ₁₆ S ₄
Solubility:	good in water, DMF, DMSO
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt 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·mol ⁻¹ ·cm ⁻¹ :	211000
Emission maximum, nm:	694
Fluorescence quantum yield:	0.21
CF ₂₆₀ :	0.09
CF ₂₈₀ :	0.11

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