

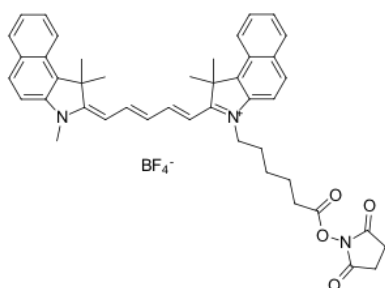
Cyanine5.5 NHS ester

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

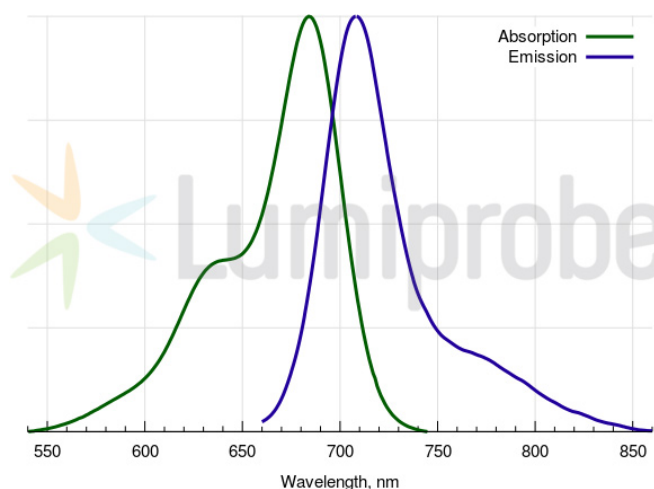
Cyanine5.5 NHS ester is a reactive dye for the labeling of amino-groups in peptides, proteins, and oligonucleotides, an analog of Cy5.5® NHS ester.

Cy5.5 is a far-red (and near-infrared) emitting dye which is ideal for fluorescence measurements where background fluorescence is a concern. It is also suitable for in vivo NIR imaging experiments.

This reagent can replace NHS esters of Cy5.5® and DyLight 680.



Cy5.5 NHS ester structure



Cy5.5 absorbance and emission spectra

General properties

Appearance:	dark blue to violet solid
Molecular weight:	767.66
CAS number:	2375105-86-3
Molecular formula:	C ₄₄ H ₄₆ N ₃ BF ₄ O ₄
IUPAC name:	1H-Benz[e]indolium, 2-[5-(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)-1,3-pentadien-1-yl]-3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,1-dimethyl-
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), practically insoluble in water (< 1 uM, < 1 mg/L)
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:	684
ε, L·mol ⁻¹ ·cm ⁻¹ :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.07
CF ₂₈₀ :	0.03

Cy® is a trademark of Cytiva.