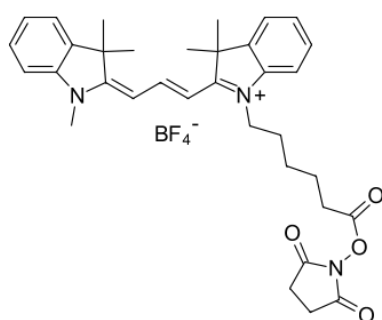


Cyanine3 NHS ester

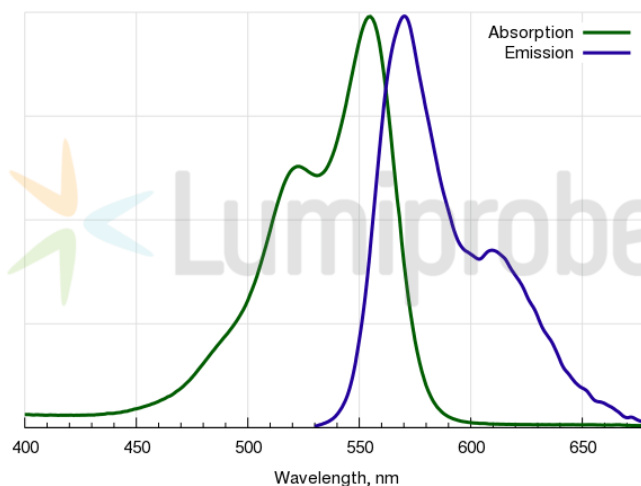
<http://www.lumiprobe.com/p/cy3-nhs-ester>

Cyanine3 NHS ester is a reactive dye for the labeling of amino-groups in biomolecules, an analog of Cy3® NHS ester. This reagent is ideal for the labeling of soluble proteins, peptides, and oligonucleotides/DNA. For delicate proteins consider using water-soluble [sulfo-Cyanine3 NHS ester](#) which does not require use of any co-solvent.

Cyanine3 NHS ester is a replacement for NHS esters of Cy3® and DyLight 549.



Structure of Cyanine3 NHS ester



Absorption and emission spectra of Cyanine3

General properties

Appearance:	red powder
Mass spec M+ increment:	439.5
Molecular weight:	641.5
CAS number:	2632339-91-2
Molecular formula:	C ₃₄ H ₄₀ N ₃ BF ₄ O ₄
IUPAC name:	3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propen-1-yl]-1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-3,3-dimethyl-, tetrafluoroborate
Solubility:	poorly soluble in water (2.3 mM = 1.5 g/L), soluble in organic solvents (DMF, DMSO, dichloromethane)
Quality control:	NMR ¹ H and 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.
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:	555
ε, L·mol ⁻¹ ·cm ⁻¹ :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.09

Cy® is a trademark of Cytiva.