

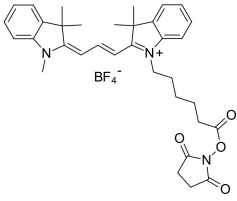
Cyanine 3 NHS ester (A270146)

Specifications:

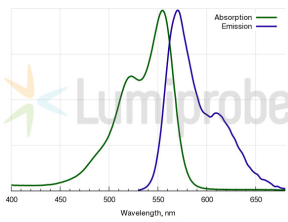
Name:	Cyanine 3 NHS ester
Description:	Cyanine 3 NHS ester is a reactive dye for the labeling of amino-groups in biomolecules, an analog of Cy3® NHS ester. This reagent is ideal for the labeling of soluble proteins, peptides, and oligonucleotides/DNA. For delicate proteins consider using water-soluble sulfo-Cyanine 3 NHS ester which does not require use of any co-solvent. Cyanine 3 NHS ester is a replacement for NHS esters of Cy3®, Alexa Fluor 546, and DyLight 549.
Absorption Maxima:	555 nm
Extinction Coefficient:	150000 M ⁻¹ cm ⁻¹
Emission Maxima:	570 nm
Fluorescence Quantum Yield:	0.31
CAS Number:	2632339-91-2
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.09
Mass Spec M+ Shift after Conjugation:	474.2
Purity:	> 95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C ₃₄ H ₄₀ N ₃ BF ₄ O ₄
Molecular Weight:	641.5 kDa
Product Form:	Red powder.
Solubility:	Poorly soluble in water (2.3 mM = 1.5 g/L). Soluble in organic solvents (DMF, DMSO, dichloromethane).
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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Images:



Structure of Cyanine 3 NHS ester.



Absorption and emission spectra of Cyanine 3 fluorophore.