

Lumiprobe Corporation

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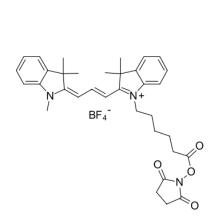
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Cyanine3 NHS ester

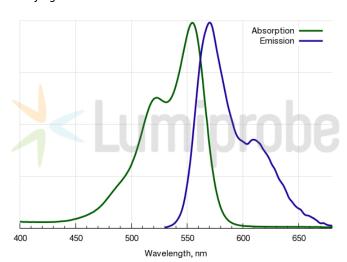
http://www.lumiprobe.com/p/cy3-nhs-ester

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: $C_{34}H_{40}N_3BF_4O_4$

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 ¹H and 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: 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

 $\ensuremath{\mathsf{Cy}}\xspace{\mathbb{R}}$ is a trademark of Cytiva.