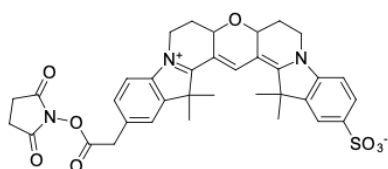


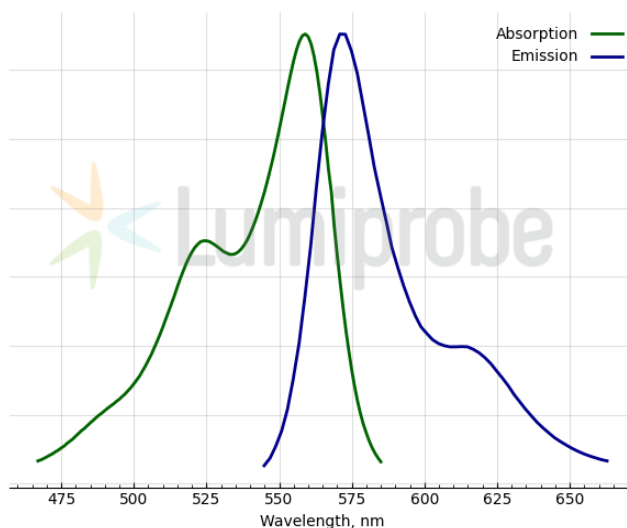
Cyanine3B NHS ester

<http://www.lumiprobe.com/p/cy3b-nhs-ester>

Cyanine3B NHS ester is a reactive dye for the specific labeling of amino-groups in biomolecules — antibodies, peptides, or oligonucleotides. Cyanine3B is an improved version of yellow Cyanine3 dye with significantly increased fluorescence quantum yield and photostability.



Structure of Cyanine3B NHS ester



Cyanine3B absorbance and emission spectra

General properties

Appearance:	dark red powder
Molecular weight:	657.75
CAS number:	228272-52-4
Molecular formula:	$C_{35}H_{35}N_3O_8S$
Solubility:	good in DMF, DMSO
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	559
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	121000
Emission maximum, nm:	571
Fluorescence quantum yield:	0.68
CF_{260} :	0.044
CF_{280} :	0.077