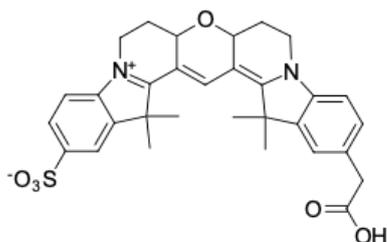


Cyanine3B carboxylic acid

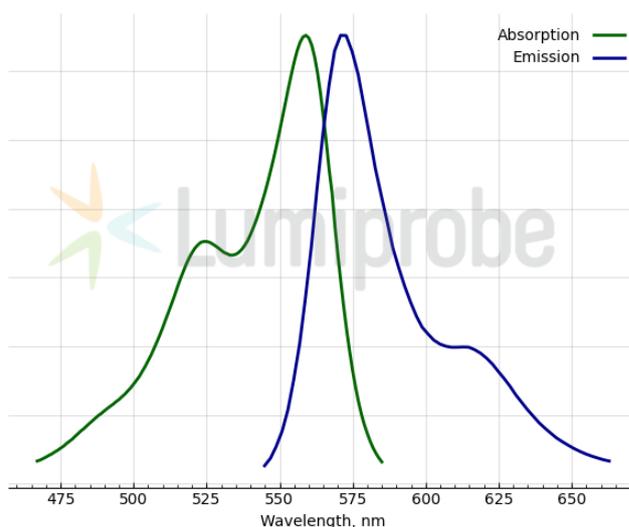
<http://www.lumiprobe.com/p/cy3b-carboxylic-acid>

Cyanine3B is a yellow-emitting cyanine dye that is an improved version of the Cyanine3 fluorophore with significantly higher fluorescence quantum yield and photostability.

Cyanine3B carboxylic acid is a non-reactive form of Cyanine3B that can be used as a reference standard in experiments using conjugates of this fluorophore. Cyanine3B carboxylic acid can also be used to synthesize activated esters or modified with hydrazines, hydroxylamines, and amines for subsequent conjugation with biomolecules.



Structure of Cyanine3B carboxylic acid



Cyanine3B absorbance and emission spectra

General properties

Appearance:	dark red powder
Molecular weight:	560.67
CAS number:	228272-69-3
Molecular formula:	$C_{31}H_{32}N_2O_6S$
Solubility:	good in DMF, DMSO
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 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