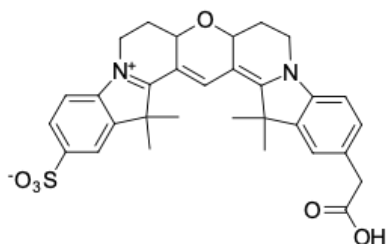


## Cyanine3B carboxylic acid

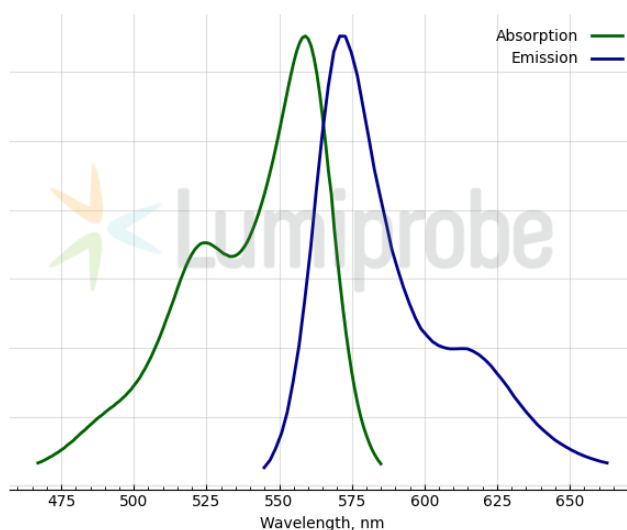
<http://www.lumiprobe.com/p/cy3b-carboxylic-acid>

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 <sub>31</sub> H <sub>32</sub> N <sub>2</sub> O <sub>6</sub> S
Solubility:	good in DMF, DMSO
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:	559
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	121000
Emission maximum, nm:	571
Fluorescence quantum yield:	0.68
CF <sub>260</sub> :	0.044
CF <sub>280</sub> :	0.077