

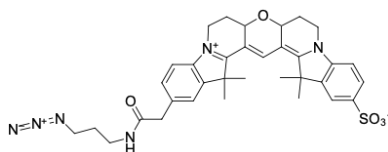
## Cyanine3B azide

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

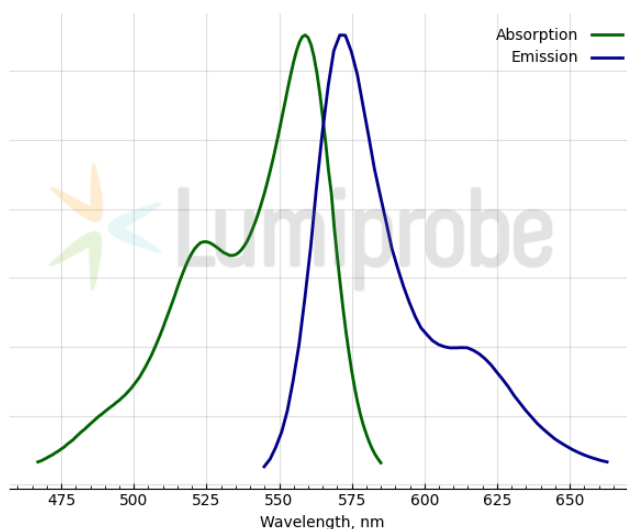
Cyanine3B dye azide for [click chemistry](#) conjugation with terminal alkynes via a copper-catalyzed click reaction or strained cyclooctynes via a copper-free click reaction.

Cyanine3B is a yellow-emitting cyanine dye that is an improved version of the Cyanine3 fluorophore with significantly higher fluorescence quantum yield and photostability. Due to the fixed conformation, Cyanine3B has the highest emission quantum yield compared to other dyes of this wavelength.

This is a sulfonated dye and can be used for efficient labeling in water media.



**Structure of Cyanine3B azide**



**Absorbance and emission spectra of Cyanine3B**

### General properties

Appearance:	dark red powder
Molecular weight:	642.78
CAS number:	1914113-85-1
Molecular formula:	C <sub>34</sub> H <sub>38</sub> N <sub>6</sub> O <sub>5</sub> S
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. Avoid prolonged exposure to light.
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