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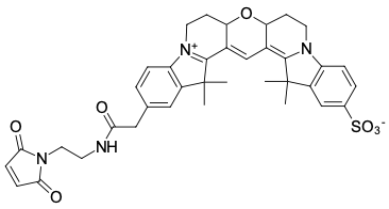
Cyanine3B maleimide

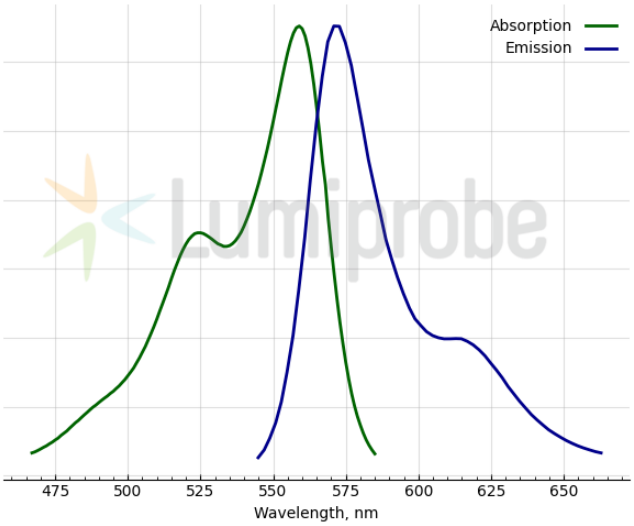
http://www.lumiprobe.com/p/cy3b-maleimide

Cyanine3B is one of the brightest fluorophores possessing high sensitivity. Cyanine3B dye maleimide is used to produce maleimide-thiol conjugates via thiols to antibodies, peptides, and other biomolecules with Cyanine3B fluorophore with high fluorescence quantum yield and photostability. Michael-addition of a thiol to a maleimide approach enables the selective method of antibody labeling.

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



Structure of Cyanine3B maleimide



Cyanine3B absorption and emission spectra

General properties

Appearance:	golden-purple powder
Molecular weight:	682.80
Molecular formula:	$C_{37}H_{38}N_4O_7S$
Solubility:	in DMSO, DMF
Quality control:	NMR ^1H and HPLC-MS (90+%)
Storage conditions:	12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

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