

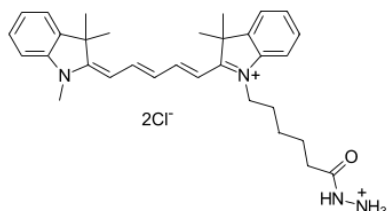
## Cyanine5 hydrazide

<http://www.lumiprobe.com/p/cy5-hydrazide>

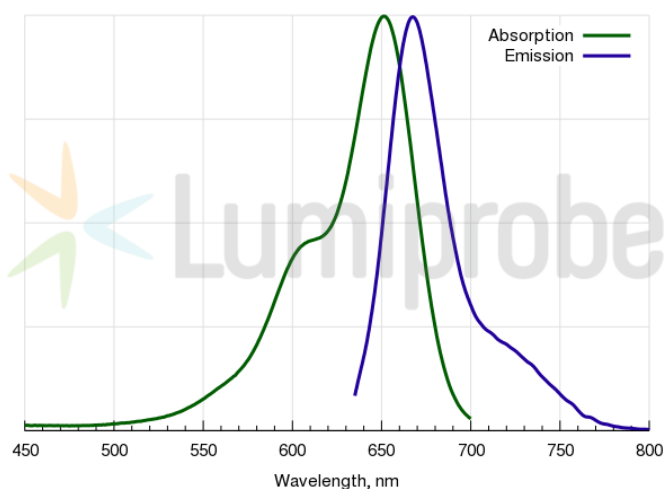
Cyanine5 hydrazide is a reactive dye for the labeling of aldehydes and ketones, an analog of Cy5® hydrazide.

This dye reacts smoothly and nearly quantitatively with various carbonyl groups encountered in biomolecules. Examples are proteins subjected to oxidative stress, glycosylated proteins pre-activated by periodate oxidation (including antibodies), and oligonucleotides with aldehyde moieties.

Cyanine5 hydrazide replaces carbonyl-reactive Cy5®, DyLight 649 dyes.



**Structure of Cyanine5 hydrazide**



**Cyanine5 absorbance and emission spectra**

### General properties

Appearance:	dark blue powder
Molecular weight:	569.61
CAS number:	1427705-31-4
Molecular formula:	C <sub>32</sub> H <sub>42</sub> Cl <sub>2</sub> N <sub>4</sub> O
Solubility:	moderate solubility in water, good in polar organic solvents (DMF, DMSO, alcohols)
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. 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:	646
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF <sub>260</sub> :	0.03
CF <sub>280</sub> :	0.04