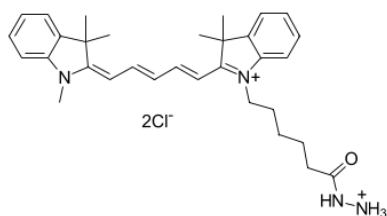


Cyanine5 hydrazide

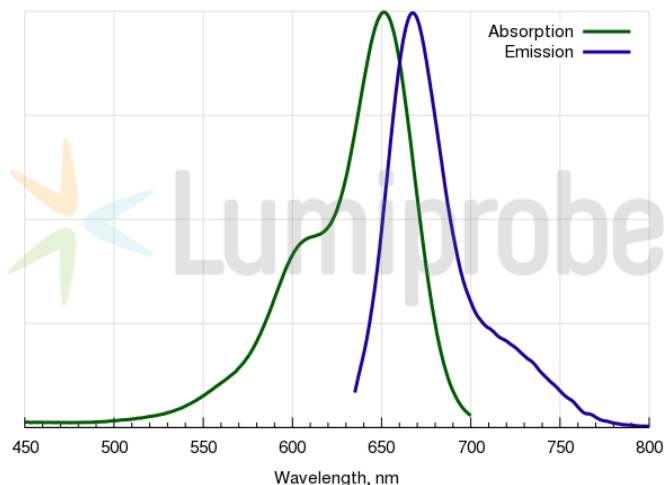
Cyanine5 hydrazide is a reactive dye for the labeling of aldehydes and ketones, an analog of Cy5® hydrazide.

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®, Alexa Fluor 647, DyLight 649 dyes.



Cy5 hydrazide structure



Cy5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	569.61
CAS number:	1427705-31-4
Molecular formula:	C ₃₂ H ₄₂ Cl ₂ N ₄ O
Solubility:	moderate solubility in water, good in polar organic solvents (DMF, DMSO, alcohols)
Quality control:	NMR ¹ 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.
TN VED Code:	3204190000

Spectral properties

Excitation maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.03
CF ₂₈₀ :	0.04

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