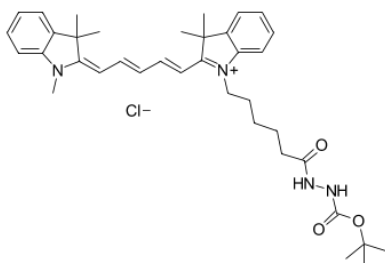


Cyanine5 Boc-hydrazide

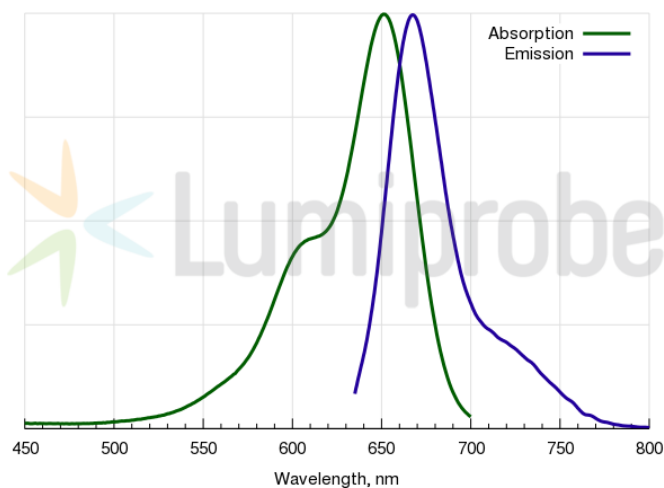
<http://www.lumiprobe.com/p/cy5-boc-hydrazide>

Boc-protected Cyanine5 hydrazide reactive dye for the labeling of aldehydes and ketones.

Boc- (tert-butoxycarbonyl) protective group can be removed with trifluoroacetic acid, or other strong acid. Reactive hydrazide is formed, which can then couple with various carbonyl groups yielding Cyanine5-labeled molecules.



Boc-Cyanine5 hydrazide structure



Cyanine5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	633.26
Molecular formula:	C ₃₇ H ₄₉ ClN ₄ O ₃
Solubility:	good in dichloromethane, polar organic solvents (DMF, DMSO), alcohols, low in water
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.

Spectral properties

Excitation/absorption 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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