

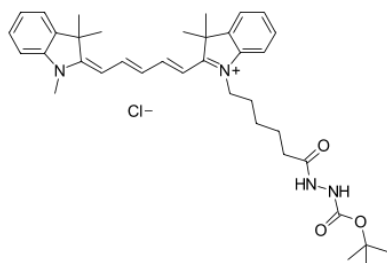
Cyanine5 Boc-hydrazide

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

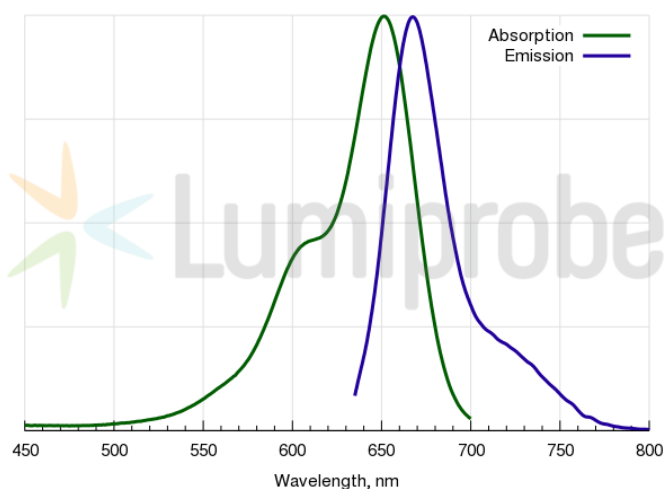
This product will be discontinued soon. We may still have some material in stock (please see availability above).

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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