

#### **Lumiprobe Corporation**

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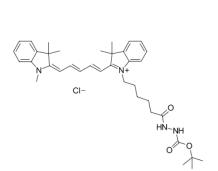
## **Cyanine5 Boc-hydrazide**

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

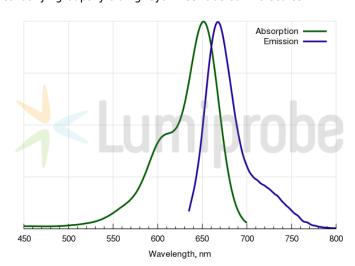
# This product will be discontinued soon. We may still have some material in stock (please see availability above).

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:  $C_{37}H_{49}CIN_4O_3$ 

Solubility: good in dichloromethane, polar organic solvents (DMF, DMSO), alcohols, low in water

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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  $\epsilon$ , 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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