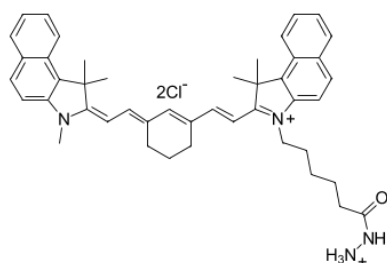


Cyanine7.5 hydrazide

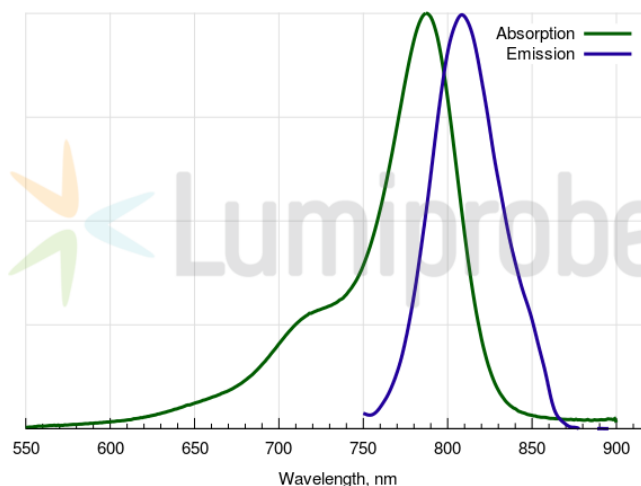
<http://www.lumiprobe.com/p/cy75-hydrazide>

A carbonyl-reactive hydrazide derivative of Cyanine7.5 near infrared (NIR) fluorophore. This dye has similar spectral properties with ICG (indocyanine green), but has a higher quantum yield of fluorescence. Hence, this fluorophore is ideal for in vivo imaging.

This is a carbonyl-reactive dye which is particularly useful for the labeling of antibodies after periodate oxidation. It also labels other carbonyl compounds (aldehydes and ketones), for example, many saccharides.



Structure of Cyanine7.5 hydrazide



Cyanine7.5 absorbance and emission spectra

General properties

| | |
|-------------------------|---|
| Appearance: | green powder |
| Mass spec M+ increment: | 644.4 |
| Molecular weight: | 735.82 |
| Molecular formula: | C ₄₅ H ₅₂ 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. |

Spectral properties

| | |
|--|--------|
| Excitation/absorption maximum, nm: | 788 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 223000 |
| Emission maximum, nm: | 808 |
| Fluorescence quantum yield: | 0.10 |

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