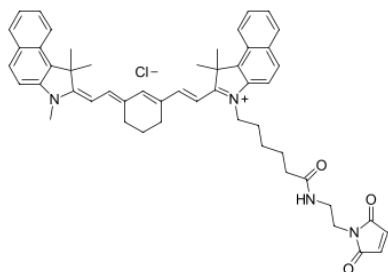


Cyanine7.5 maleimide

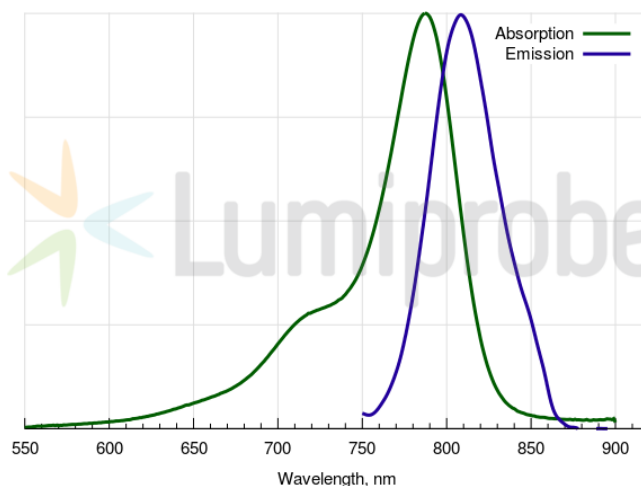
<http://www.lumiprobe.com/p/cy75-maleimide>

Thiol-reactive, near-infrared dye Cyanine7.5 for labeling of protein SH groups, an analog of Cy7.5® maleimide.

Most proteins contain sulfhydryl groups which can be selectively labeled with maleimides. With this reagent, these proteins can be converted to near-infrared (NIR) fluorescent conjugates. After it, the conjugates can be used in non-invasive live organism imaging to study distribution of the protein in tissues and organs.



Structure of Cyanine7.5 maleimide



Cyanine7.5 absorbance and emission spectra

General properties

Appearance:	green powder
Molecular weight:	807.46
Molecular formula:	C ₅₁ H ₅₅ ClN ₄ O ₃
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility 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. 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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