

Lumiprobe Corporation

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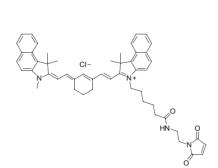
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Cyanine 7.5 maleimide

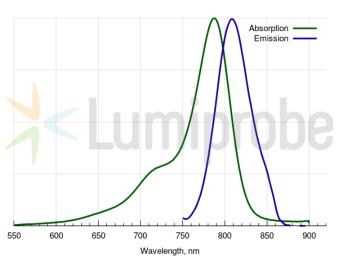
http://www.lumiprobe.com/p/cy75-maleimide

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 Cyanine 7.5 maleimide



Cyanine 7.5 absorbance and emission spectra

General properties

Appearance: green powder

Molecular weight: 807.46

CAS number: 2270866-73-2; 2270866-72-1(inner salt)

Molecular formula: $C_{51}H_{55}CIN_4O_3$

Solubility: soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water

Quality control: NMR ¹H, 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. Desiccate.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for

safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

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

 $\mbox{\rm Cy}\, \mbox{\rm \@Ball}$ is a trademark of GE Healthcare.