

Lumiprobe Corporation

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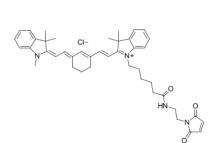
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Cyanine7 maleimide

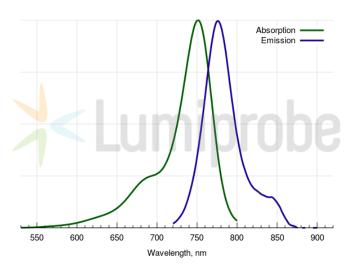
http://www.lumiprobe.com/p/cy7-maleimide

Near-infrared, sulfhydryl reactive Cyanine7 dye, an analog of Cy7® maleimide.

This reagent allows to attach near infrared Cyanine7 dye to proteins with free sulfhydryl groups. Labeled proteins thus obtained are used in NIR bioimaging applications. NIR imaging systems can be used to visualize distribution of labeled proteins in tissues even in live organism.



Structure of Cyanine7 maleimide



Cyanine7 absorbance and emission spectra

General properties

Appearance: green powder

Molecular weight: 707.34

CAS number: 2120392-49-4 (without anion)

Molecular formula: $C_{43}H_{51}CIN_4O_3$

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: 750 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 199000 Emission maximum, nm: 773 Fluorescence quantum yield: 0.3 CF_{260} : 0.022 CF_{280} : 0.029

Cy® is a trademark of GE Healthcare.