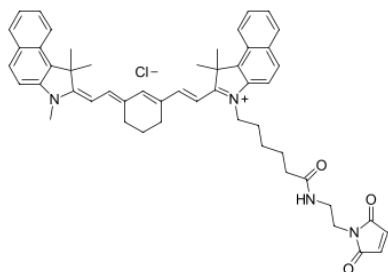


## Cyanine7.5 maleimide

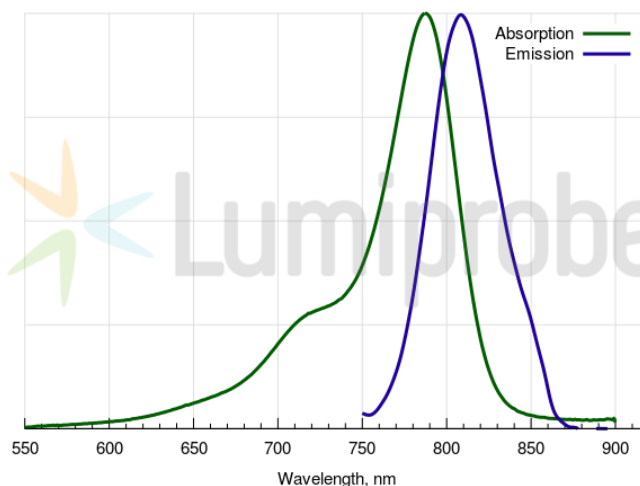
<http://www.lumiprobe.com/p/cy75-maleimide>

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
CAS number:	2270866-73-2; 2270866-72-1(inner salt)
Molecular formula:	C <sub>51</sub> H <sub>55</sub> ClN <sub>4</sub> O <sub>3</sub>
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water
Quality control:	NMR <sup>1</sup> 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.
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 <sup>-1</sup> ·cm <sup>-1</sup> :	223000
Emission maximum, nm:	808
Fluorescence quantum yield:	0.10

Cy® is a trademark of GE Healthcare.