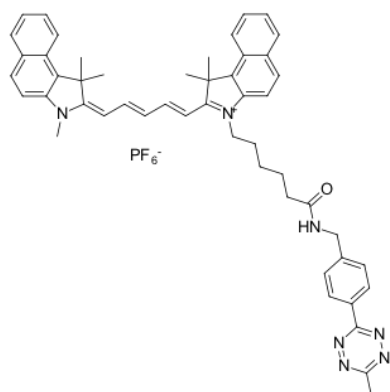


## Cyanine5.5 tetrazine

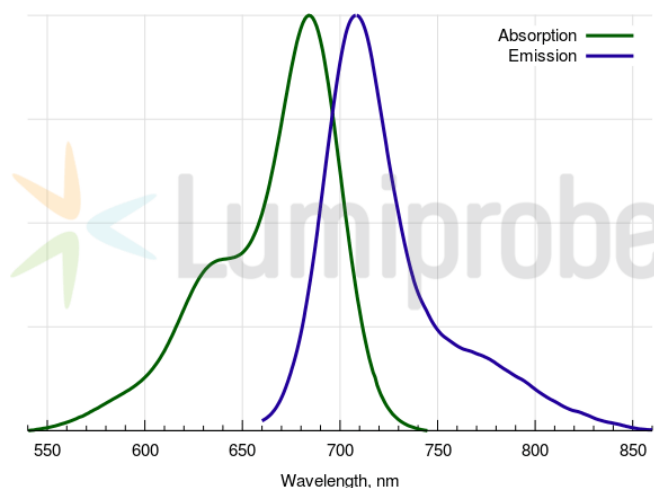
<http://www.lumiprobe.com/p/cy55-tetrazine>

Cyanine5.5 is a far red emitting dye for *in vivo* imaging and applications requiring low background. This Cyanine5.5 derivative contains tetrazine moiety that reacts with trans-cyclooctenes, cyclopropenes, and some strained cyclooctynes to form stable conjugates.

This labeling reaction is extremely fast and can be used *in vivo*.



**Structure of Cyanine5.5 tetrazine**



**Absorption and emission spectra of Cyanine5.5**

### General properties

Appearance:	dark blue solid
Mass spec M+ increment:	737.4
Molecular weight:	911.96
Molecular formula:	C <sub>50</sub> H <sub>52</sub> N <sub>7</sub> F <sub>6</sub> OP
Solubility:	good in DCM, DMF, DMSO
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:	684
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF <sub>260</sub> :	0.07
CF <sub>280</sub> :	0.03