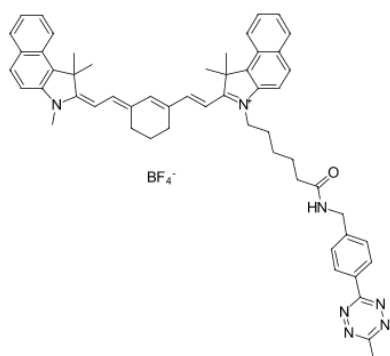


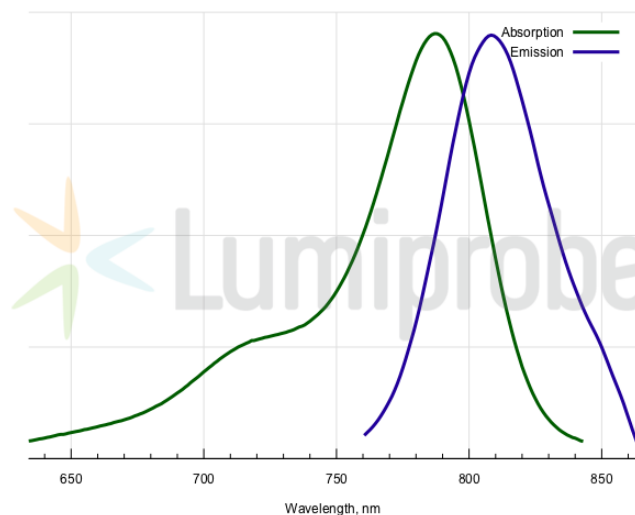
Cyanine7.5 tetrazine

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

Cyanine7.5 is a NIR fluorescent fluorophore suitable for *in vivo* infrared imaging. The absorption and emission spectra of Cyanine7.5 are similar to the corresponding spectra of ICG (indocyanine green), but this dye has a significantly higher fluorescence quantum yield. This derivative is tetrazine for TCO ligation and Diels-Alder reaction.



Structure of Cyanine7.5 tetrazine



Absorption and emission spectra of Cyanine7.5

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	802.5
Molecular weight:	919.9
Molecular formula:	C ₅₅ H ₅₈ N ₇ BF ₄ O
Solubility:	good in DMF, DMSO, dichloromethane
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