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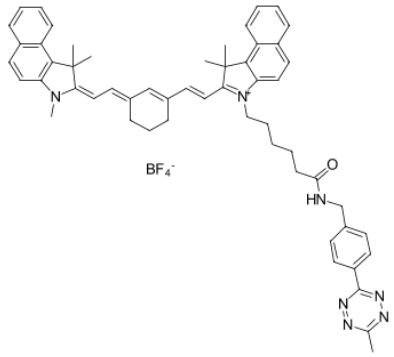
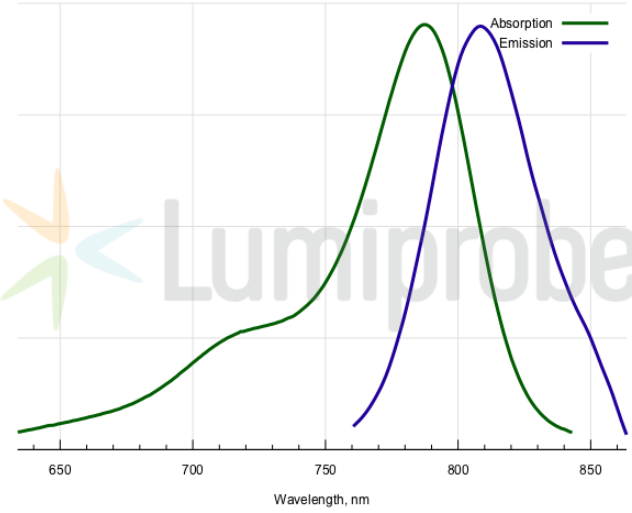
Cyanine7.5 tetrazine

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:	$C_{55}H_{58}N_7BF_4O$
Solubility:	good in DMF, DMSO, dichloromethane
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, $L \cdot mol^{-1} \cdot cm^{-1}$:	223000
Emission maximum, nm:	808
Fluorescence quantum yield:	0.10