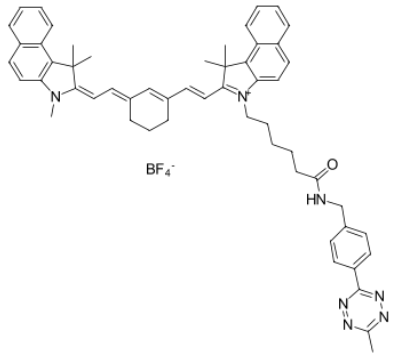
Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

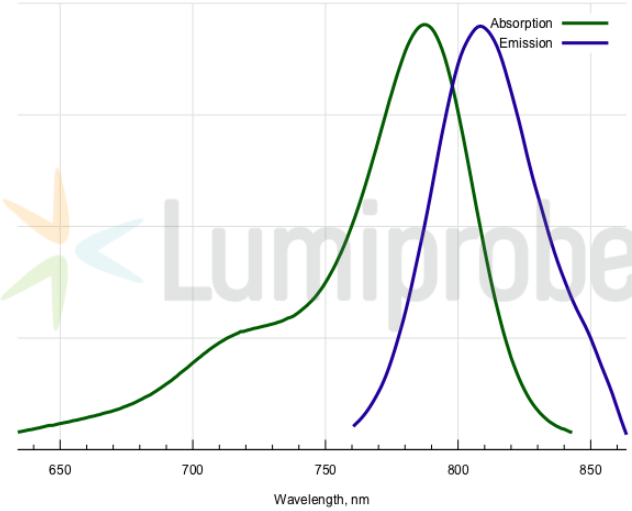
Cyanine7.5 tetrazine

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.

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