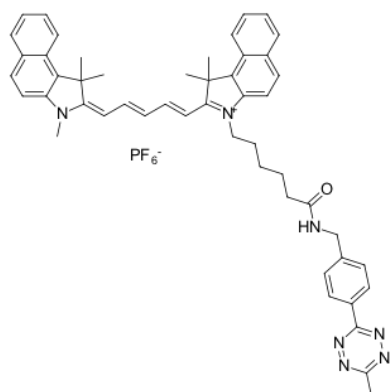


Cyanine5.5 tetrazine

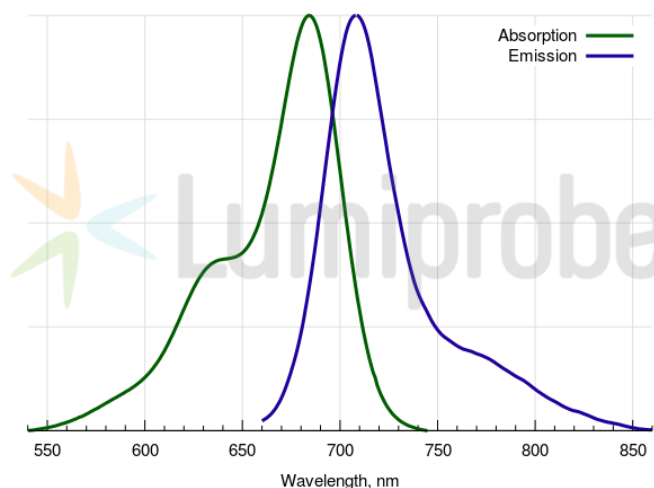
<http://www.lumiprobe.com/p/cy55-tetrazine>

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 ₅₀ H ₅₂ N ₇ F ₆ OP
Solubility:	good in DCM, DMF, DMSO
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:	684
ε, L·mol ⁻¹ ·cm ⁻¹ :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.07
CF ₂₈₀ :	0.03