

Lumiprobe Corporation

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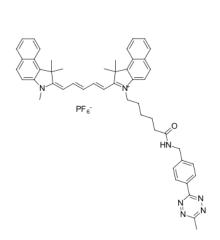
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Cyanine 5.5 tetrazine

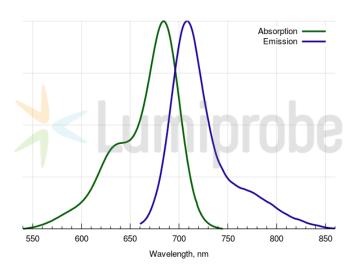
http://www.lumiprobe.com/p/cy55-tetrazine

Cyanine 5.5 is a far red emitting dye for *in vivo* imaging and applications requiring low background. This Cyanine 5.5 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 Cyanine 5.5 tetrazine



Absorption and emission spectra of Cyanine 5.5

General properties

Appearance: dark blue solid

Mass spec M+ increment: 737.4 Molecular weight: 911.96 Molecular formula: $C_{50}H_{52}N_7F_6OP$

Solubility: good in DCM, DMF, DMSO

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: 684 ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: 198000 Emission maximum, nm: 710 Fluorescence quantum yield: 0.2 CF_{260} : 0.07 CF_{280} : 0.03