

Lumiprobe Corporation

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USA

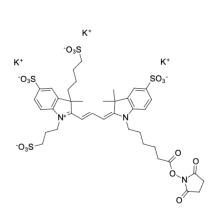
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AF 555 NHS ester

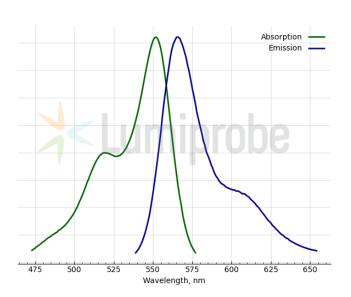
http://www.lumiprobe.com/p/af-555-nhs-ester

AF 555 NHS ester is a bright, photostable, and hydrophilic fluorescent dye for the yellow channel. This NHS ester is an amine-reactive dye; it can label amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

AF 555 is a hydrophilic fluorophore with high fluorescence quantum yield and high photostability, an alternative to tetramethylrhodamine (TAMRA, TMR) or Cyanine3 dyes. The dye is useful for many applications, including cytometry and microscopy.



Structure of AF 555 NHS ester



Absorption and emission spectra of AF 555

General properties

Appearance: dark red powder

Molecular weight: 1058.36

Molecular formula: $C_{39}H_{46}K_3N_3O_{16}S_4$

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: 12 months after receival at -20°C in the dark. Transportation: at room temperature

for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

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: 552 ϵ , L·mol⁻¹·cm⁻¹: 152000 Emission maximum, nm: 566 Fluorescence quantum yield: 0.14