

Lumiprobe Corporation

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USA

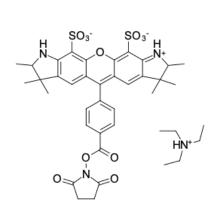
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AF 532 NHS ester

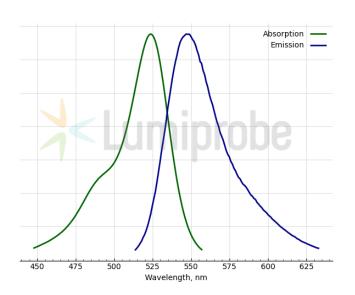
http://www.lumiprobe.com/p/af-532-nhs-ester

Activated NHS-ester of AF 532 dye. This NHS ester is an amine-reactive dye for labeling of amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

AF 532 is a bright, photostable, and hydrophilic fluorophore emitting in the yellow-green channel, an alternative to HEX, JOE, and SIMA. The dye is useful in super-resolution microscopy, particularly in stochastic optical reconstruction microscopy (STORM), as an activator in nSTORM and a reporter in dSTORM.



Structure of AF 532 NHS ester



Absorption and emission spectra of AF 532

General properties

Appearance: dark red powder

824.96 Molecular weight: Molecular formula: $C_{40}H_{48}N_4O_{11}S_2$ Solubility: water, DMSO, DMF

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.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety

and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro

diagnostic purposes, for humans or animals or for commercial purposes.

Spectral properties

Excitation/absorption maximum, nm: 524 ϵ , L·mol⁻¹·cm⁻¹: 80500 Emission maximum, nm: 547 Fluorescence quantum yield: 0.6 CF₂₆₀: 0.17 CF₂₈₀: 0.11