

Lumiprobe Corporation

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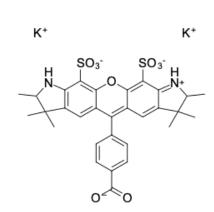
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AF 532 carboxylic acid

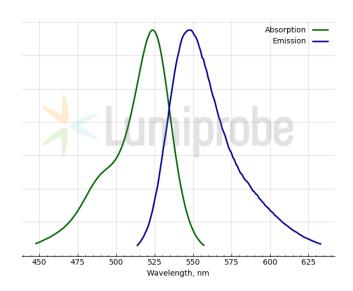
http://www.lumiprobe.com/p/af-532-carboxylic-acid-5

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.

AF 532 carboxylic acid is a non-reactive form of AF 532 dye that can be used as a reference standard in experiments involving AF 532 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of AF 532 carboxylic acid



Absorption and emission spectra of AF 532

General properties

Appearance: reddish-brown powder

Molecular weight: 702.88

 $\label{eq:controller} \text{Molecular formula:} \qquad \qquad C_{30} H_{28} K_2 N_2 O_9 S_2$

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

Storage conditions: 24 months after receival at -20°C in the dark. Transportation: at room temperature

for up to 3 weeks. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 524 ϵ , L·mol⁻¹·cm⁻¹: 80500 Emission maximum, nm: 547 Fluorescence quantum yield: 0.6 CF_{260} : 0.17 CF_{280} : 0.11