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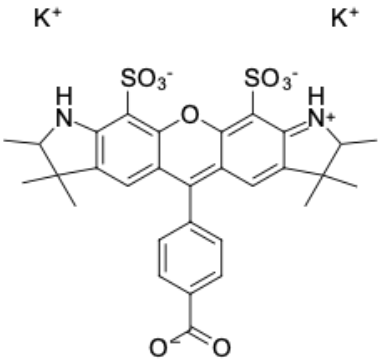
AF 532 carboxylic acid

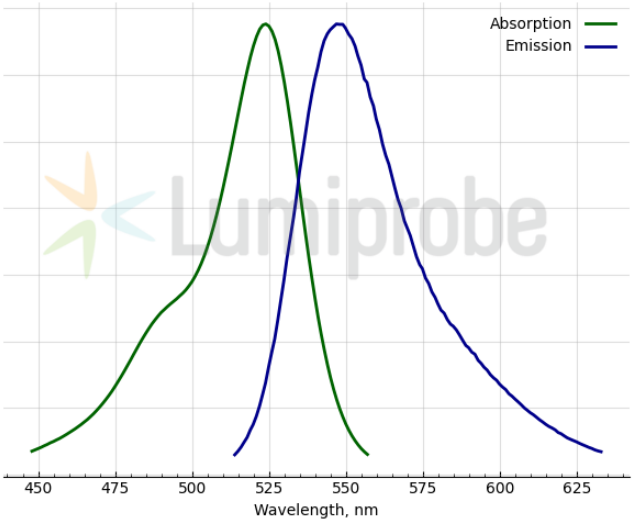
http://www.lumiprobe.com/p/af-532-carboxylic-acid-5

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
Molecular formula:	$C_{30}H_{28}K_2N_2O_9S_2$
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.
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:	524
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	80500
Emission maximum, nm:	547
Fluorescence quantum yield:	0.6
CF_{260}:	0.17
CF_{280}:	0.11