

Lumiprobe Corporation

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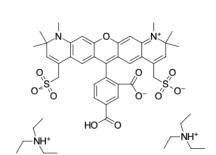
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AF 594 carboxylic acid

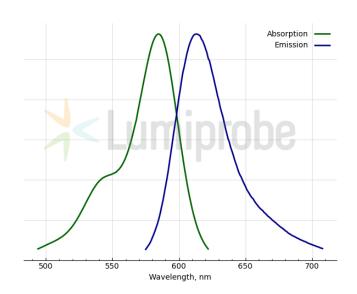
http://www.lumiprobe.com/p/af-594-carboxylic-acid-5

AF 594 is a bright, red-fluorescent dye with excitation maximum at 590 nm and emission maximum at 617 nm. This dye has better photostability and higher fluorescence quantum yield than traditional fluorescent stains (phycoerythrin PE, Texas Red etc.).

AF 594 carboxylic acid is a non-reactive form of AF 594 dye that can be used as a reference standard in experiments involving AF 594 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of AF 594 carboxylic acid



AF 594 absorbance and emission spectra

General properties

Appearance: black-blue crystals

 $\label{eq:molecular weight: 925.18} \mbox{Molecular formula:} \mbox{C_{47}H}_{64}\mbox{N_4O}_{11}\mbox{S_2}$

Solubility: soluble in water, DMSO, DMF

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. 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: 586 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 105000 Emission maximum, nm: 613 Fluorescence quantum yield: 0.77 CF_{260} : 0.28 CF_{280} : 0.51