

Lumiprobe Corporation

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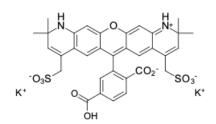
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AF 568 carboxylic acid

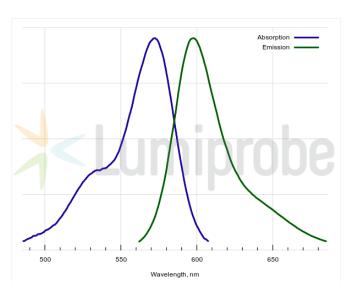
http://www.lumiprobe.com/p/af-568-carboxylic-acid-6-isomer

AF 568 is a fluorescent dye with excitation maximum at 572 nm and emission maximum at 598 nm. This dye has better photostability than traditional fluorescent stains (fluorescein isothiocyanate FITC, phycoerythrin PE etc.).

AF 568 carboxylic acid is a non-reactive form of AF 568 dye that can be used as a reference standard in experiments involving AF 568 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of AF 568 carboxylic acid



Absorption and emission spectra of AF 568

General properties

Appearance: violet solid Molecular weight: 770.91

 $\label{eq:controller} \text{Molecular formula:} \qquad \qquad C_{33} H_{28} N_2 K_2 O_{11} S_2$

Solubility: good in water, DMF, DMSO Quality control: NMR ¹H, HPLC-MS (95%)

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

temperature for up to 3 weeks. Avoid prolonged exposure to light. 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: 572 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 94238 Emission maximum, nm: 598 Fluorescence quantum yield: 0.912 CF_{260} : 0.4 CF_{280} : 0.32