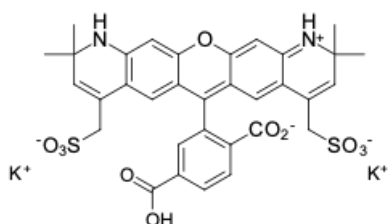


AF 568 carboxylic acid

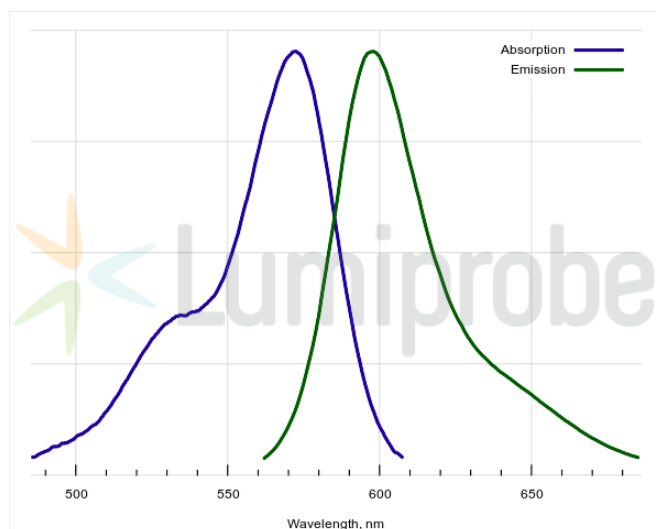
<http://www.lumiprobe.com/p/alexa-fluor-568-carboxylic-acid-6-isomer>

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
Molecular formula:	$C_{33}H_{28}N_2K_2O_{11}S_2$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	572
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	94238
Emission maximum, nm:	598
Fluorescence quantum yield:	0.912
CF_{260} :	0.4
CF_{280} :	0.32