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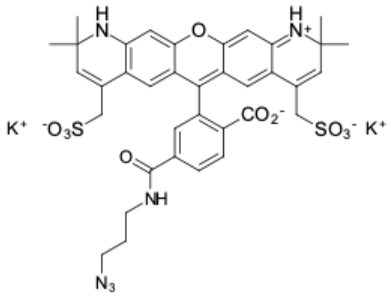
AF 568 azide

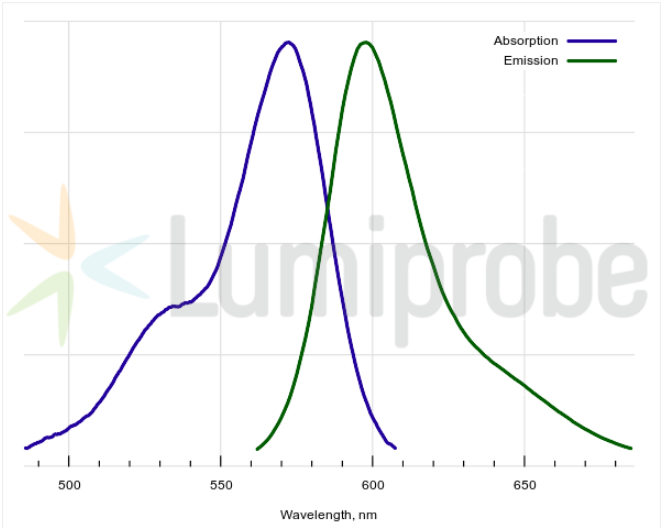
http://www.lumiprobe.com/p/alexa-fluor-568-azide-6

AF 568 is a fluorescent dye with excitation peak at 572 nm and emission peak at 598 nm. AF 568 azide is a photochemically stable, specific, and highly efficient tool for labeling biomolecules. It is water soluble and insensitive to pH changes between pH 4 and pH 10. The reaction conditions do not require high temperature or pressure.

Labeling with AF 568 azide via click chemistry is a powerful technique for the production of bioconjugates. AF 568 azide is an excellent tool for imaging purposes, including fluorescent microscopy and flow cytometry, where label brightness and photostability are essential.



Structure of AF 568 azide, 6-isomer



Absorption and emission spectra of AF 568

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	776.2
Molecular weight:	853.02
Molecular formula:	$C_{36}H_{34}N_6K_2O_{10}S_2$
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.

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