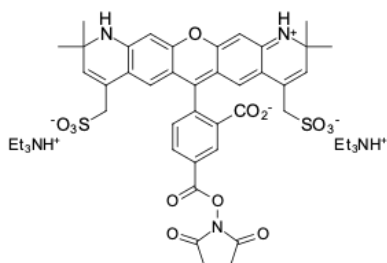


## AF 568 NHS ester

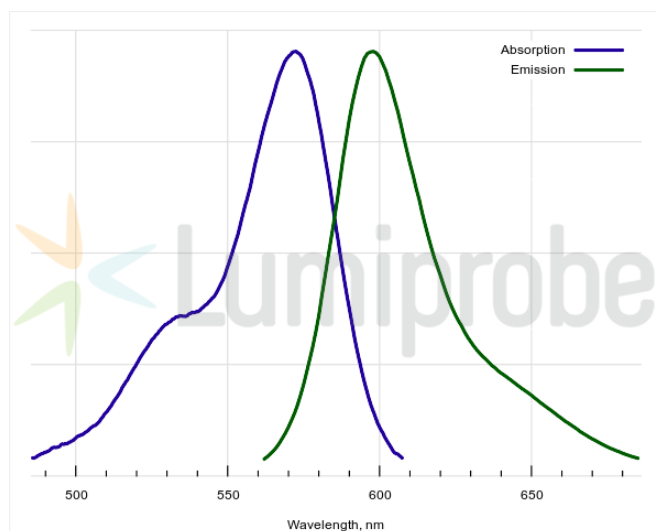
<http://www.lumiprobe.com/p/alexa-fluor-568-nhs-ester>

AF 568 is a synthetic fluorophore. The excitation peak of AF 568 lies at 572 nm and its emission peak is at 598 nm. It can be excited using a 561 nm laser. AF 568 is spectrally similar to TF4 (Tide Fluor™ 4), and sulfo-Cyanine3.5 dyes.

As AF 568 NHS ester can be conjugated with proteins and peptides, it is recommended for stable signal generation in imaging, including Western Blotting, fluorescence microscopy, and flow cytometry.



**Structure of AF 568 NHS Ester**



**Absorption and emission spectra of AF 568**

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	676.1
Molecular weight:	994.18
Molecular formula:	C <sub>49</sub> H <sub>63</sub> N <sub>5</sub> O <sub>13</sub> S <sub>2</sub>
Solubility:	good in water, DMSO, DMF
Quality control:	NMR <sup>1</sup> H, HPLC-MS (80%)
Storage conditions:	Storage: 12 months after receipt 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·mol <sup>-1</sup> ·cm <sup>-1</sup> :	94238
Emission maximum, nm:	598
Fluorescence quantum yield:	0.912
CF <sub>260</sub> :	0.4
CF <sub>280</sub> :	0.32

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