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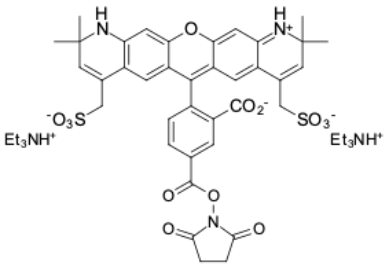
AF 568 NHS ester

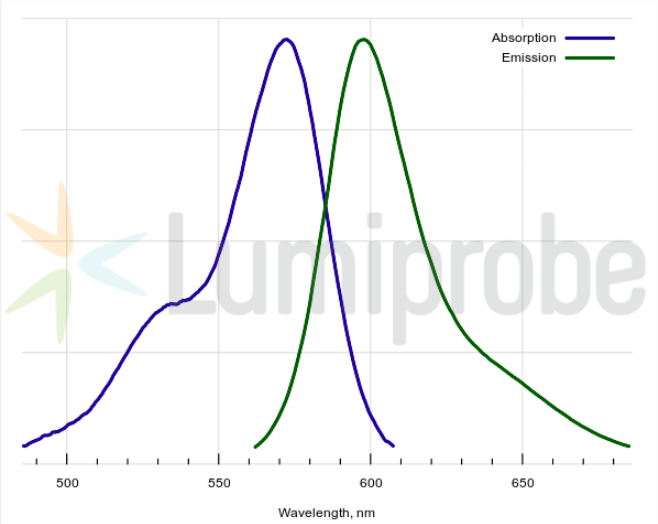
http://www.lumiprobe.com/p/af-568-nhs-ester

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:	$C_{49}H_{63}N_5O_{13}S_2$
Solubility:	good in water, DMSO, DMF
Quality control:	NMR ^1H, HPLC-MS (80%)
Storage conditions:	Storage: 12 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, $L \cdot mol^{-1} \cdot cm^{-1}$:	94238
Emission maximum, nm:	598
Fluorescence quantum yield:	0.912
CF_{260}:	0.4
CF_{280}:	0.32

Tide Fluor™ is a trademark of AAT Bioquest.