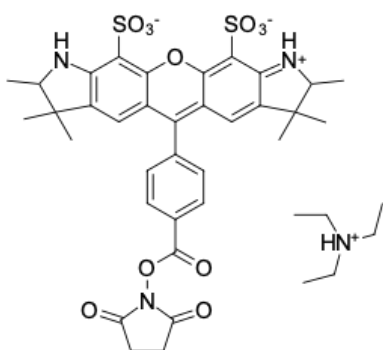


## AF 532 NHS ester

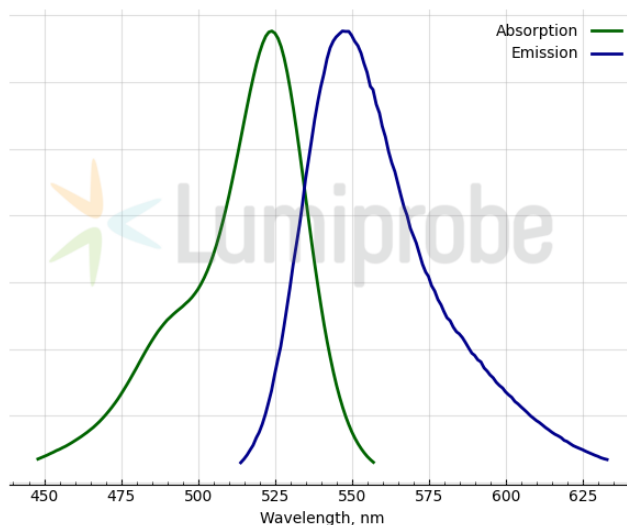
<http://www.lumiprobe.com/p/af-532-nhs-ester>

Activated NHS-ester of AF 532 dye. This NHS ester is an amine-reactive dye for labeling of amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

AF 532 is a bright, photostable, and hydrophilic fluorophore emitting in the yellow-green channel, an alternative to HEX, JOE, and SIMA. The dye is useful in super-resolution microscopy, particularly in stochastic optical reconstruction microscopy (STORM), as an activator in nSTORM and a reporter in dSTORM.



**Structure of AF 532 NHS ester**



**Absorption and emission spectra of AF 532**

### General properties

Appearance:	dark red powder
Molecular weight:	824.96
Molecular formula:	$C_{40}H_{48}N_4O_{11}S_2$
Solubility:	water, DMSO, DMF
Quality control:	NMR $^1H$ and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

### Spectral properties

Excitation/absorption maximum, nm:	524
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	80500
Emission maximum, nm:	547
Fluorescence quantum yield:	0.6
$CF_{260}$ :	0.17
$CF_{280}$ :	0.11