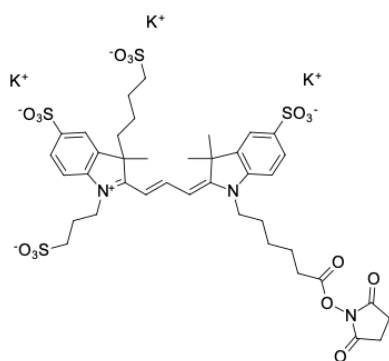


## AF 555 NHS ester

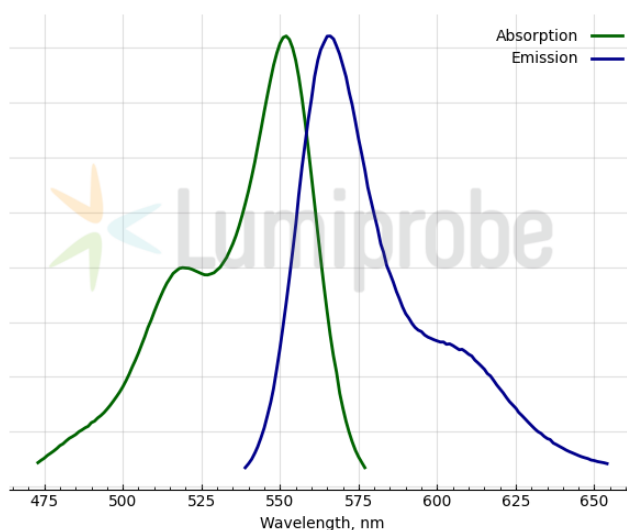
<http://www.lumiprobe.com/p/af-555-nhs-ester>

AF 555 NHS ester is a bright, photostable, and hydrophilic fluorescent dye for the yellow channel. This NHS ester is an amine-reactive dye; it can label amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

AF 555 is a hydrophilic fluorophore with high fluorescence quantum yield and high photostability, an alternative to tetramethylrhodamine (TAMRA, TMR) or Cyanine3 dyes. The dye is useful for many applications, including cytometry and microscopy.



**Structure of AF 555 NHS ester**



**Absorption and emission spectra of AF 555**

### General properties

Appearance:	dark red powder
Molecular weight:	1058.36
Molecular formula:	$C_{39}H_{46}K_3N_3O_{16}S_4$
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. Avoid prolonged exposure to light.
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:	552
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	152000
Emission maximum, nm:	566
Fluorescence quantum yield:	0.14