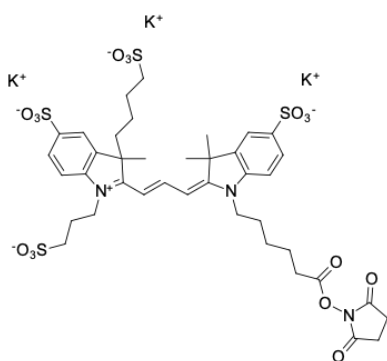


AF 555 NHS ester

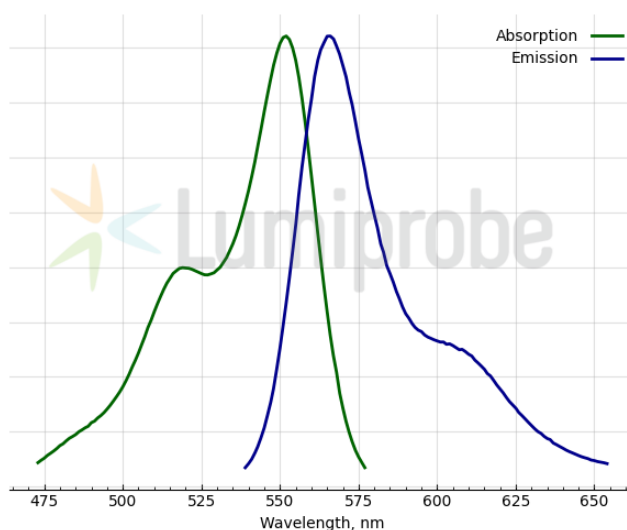
<http://www.lumiprobe.com/p/af-555-nhs-ester>

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°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	552
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	152000
Emission maximum, nm:	566
Fluorescence quantum yield:	0.14