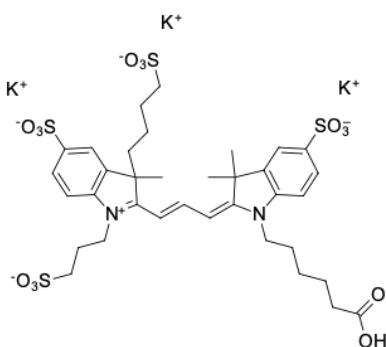


## AF 555 carboxylic acid

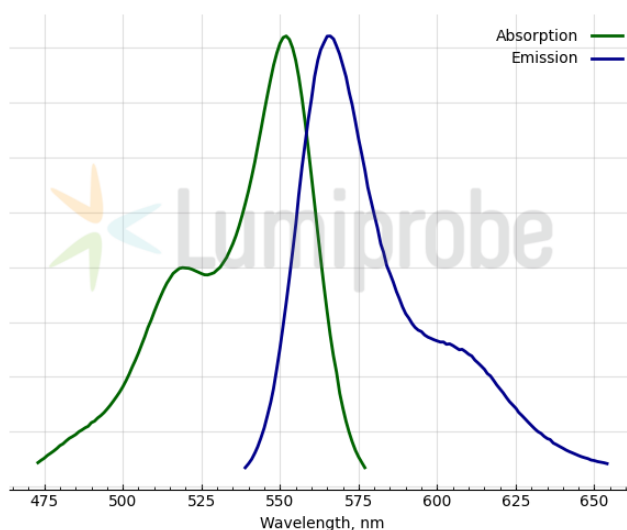
<http://www.lumiprobe.com/p/alexa-fluor-555-carboxylic-acid>

AF 555 is a hydrophilic fluorophore with high fluorescence quantum yield and high photostability, an alternative to tetramethylrhodamine (TAMRA, TMR) or Cyanine3 dyes.

AF 555 carboxylic acid is a non-reactive form of AF 555 dye that can be used as a reference standard in experiments involving AF 555 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



**Structure of AF 555 carboxylic acid**



**Absorption and emission spectra of AF 555**

### General properties

Appearance:	green red powder
Molecular weight:	961.29
Molecular formula:	$C_{35}H_{43}K_3N_2O_{14}S_4$
Quality control:	NMR $^1H$ and HPLC-MS (95+%)
Storage conditions:	24 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.

### 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