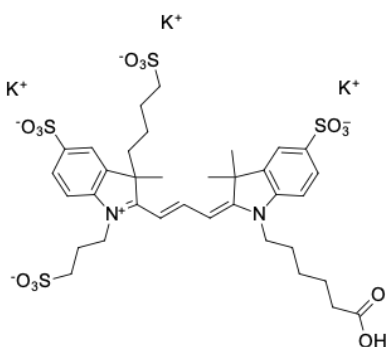


## AF 555 carboxylic acid

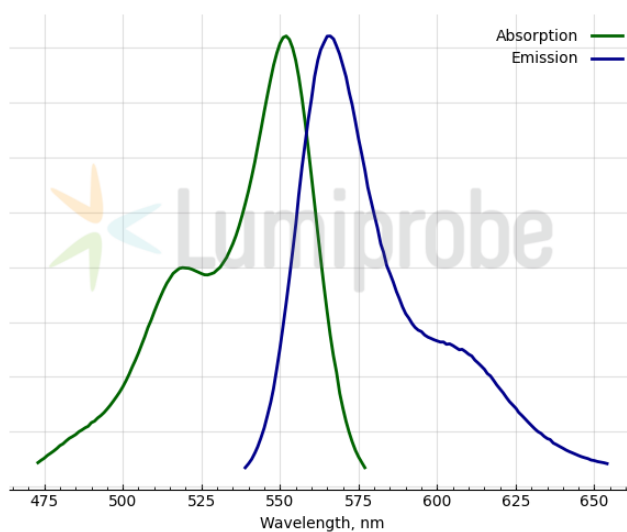
<http://www.lumiprobe.com/p/af-555-carboxylic-acid>

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.
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