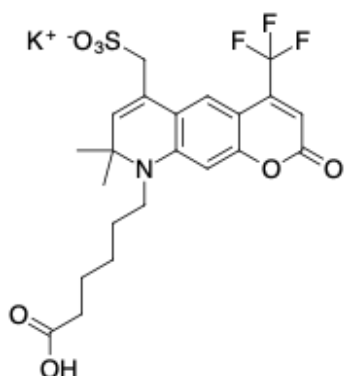


AF430 carboxylic acid

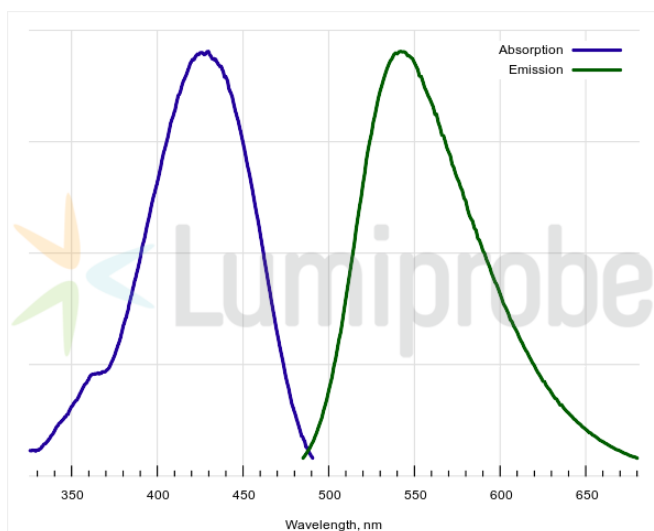
<http://www.lumiprobe.com/p/alexa-fluor-430-carboxylic-acid>

AF430's excitation maximum is at 430 nm, emission maximum is at 542 nm, and Stokes shift is 112 nm. AF430 exhibits high photostability and pH-insensitive fluorescence. The dye can be excited by 405 nm violet laser or 445 nm laser.

AF430 carboxylic acid is a non-reactive form of AF430 dye that can be used for the analysis of labeled samples — as a reference standard in procedures where AF430 dye conjugates are involved.



Structure of AF430 carboxylic acid



Absorption and emission spectra of AF430

General properties

Appearance:	yellow solid
Molecular weight:	541.58
Molecular formula:	$C_{22}H_{23}NF_3KO_7S$
Solubility:	good in DMF, DMSO, water
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	430
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	15955
Emission maximum, nm:	542
Fluorescence quantum yield:	0.23
CF_{260} :	0.06
CF_{280} :	0.06