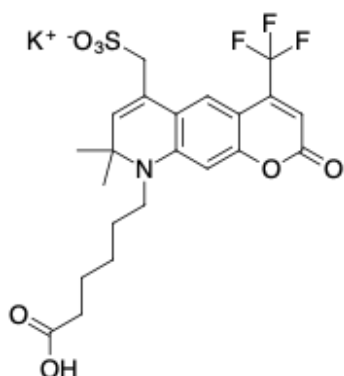


AF 430 carboxylic acid

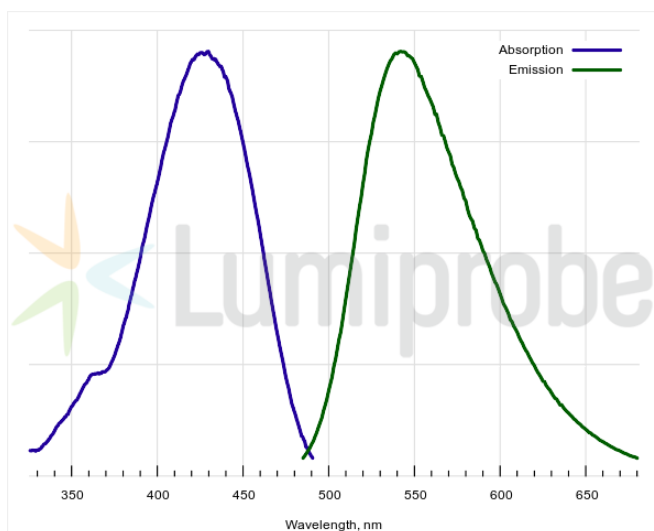
<http://www.lumiprobe.com/p/af-430-carboxylic-acid>

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

AF 430 carboxylic acid is a non-reactive form of AF 430 dye that can be used for the analysis of labeled samples as a reference standard in procedures where AF 430 dye conjugates are involved.



Structure of AF 430 carboxylic acid



Absorption and emission spectra of AF 430

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.
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:	430
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	15955
Emission maximum, nm:	542
Fluorescence quantum yield:	0.23