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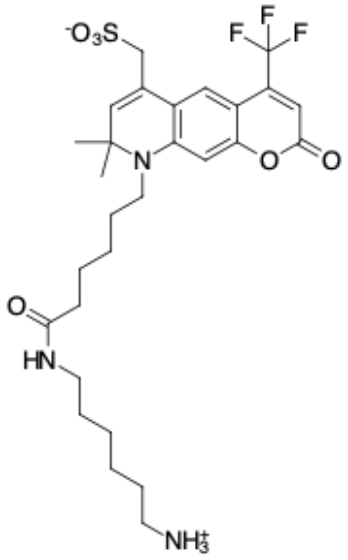
AF 430 amine

http://www.lumiprobe.com/p/af-430-amine

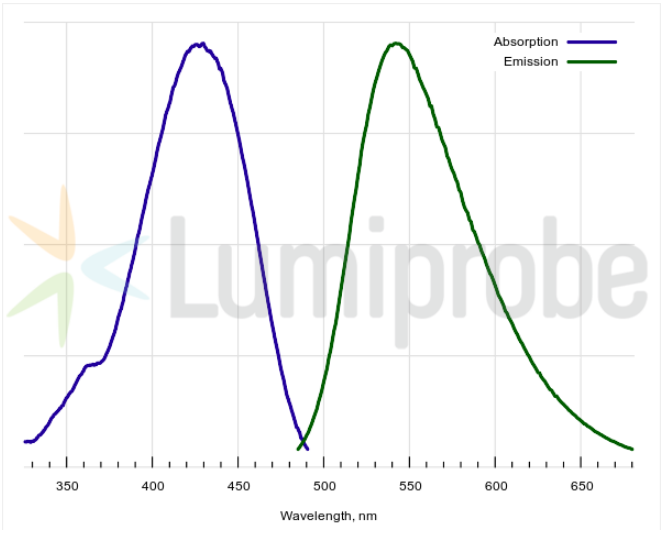
AF 430 is a stable dye over a broad pH range (from 4 to 10) with the fluorescence peak in the yellow-green region (at 542 nm).

Conjugates of biomolecules with AF 430 can be used in flow cytometry, for example in multicolor staining. AF 430 is also used in cell microscopy due to its high photostability.

AF 430 amine is soluble in water and can be conjugated with electrophiles and participate in enzymatic transamination.



Structure of AF 430 amine



Absorption and emission spectra of AF 430

General properties

Appearance:	yellow solid
Molecular weight:	601.68
Molecular formula:	$C_{28}H_{38}N_3F_3O_6S$
IUPAC name:	(9-(6-((6-ammoniohexyl)amino)-6-oxohexyl)-8,8-dimethyl-2-oxo-4-(trifluoromethyl)-8,9-dihydro-2H-pyrano[3,2-g]quinolin-6-yl)methanesulfonate
Solubility:	soluble in water, DMSO, DMF
Quality control:	NMR ^{1}H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:	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