

AF430 amine

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

AF430 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 AF430 can be used in flow cytometry, for example in multicolor staining. AF430 is also used in cell microscopy due to its high photostability.

AF430 amine is soluble in water and can be conjugated with electrophiles and participate in enzymatic transamination.



Structure of AF430 amine



Absorption and emission spectra of AF430

General properties

Appearance:	yellow solid
Molecular weight:	601.68
Molecular formula:	C ₂₈ H ₃₈ N ₃ F ₃ O ₆ S
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 receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	430
ϵ , L·mol ⁻¹ ·cm ⁻¹ :	15955
Emission maximum, nm:	542
Fluorescence quantum yield:	0.23
CF ₂₆₀ :	0.06
CF ₂₈₀ :	0.06