

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

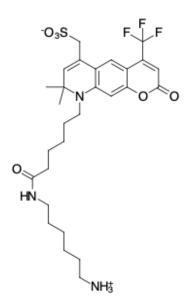
AF 430 amine

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

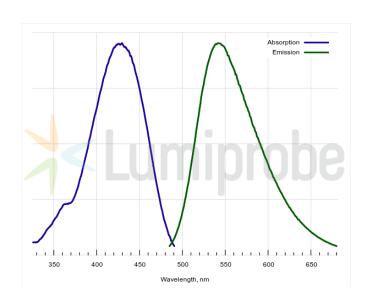
AF 430 is a stable dye over a broad pH range (from 4 to 10) with the fluorescence peak in the yellow-green region (at 542 nm).

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

yellow solid Appearance: 601.68 Molecular weight: 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 ¹H, HPLC-MS (95%)

Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to Storage conditions:

This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, Legal statement:

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 430 maximum, nm:

 ϵ , L·mol⁻¹·cm⁻¹: 15955 Emission maximum, 542

Fluorescence 0.23

quantum yield:

CF₂₆₀: 0.06 CF₂₈₀: 0.06