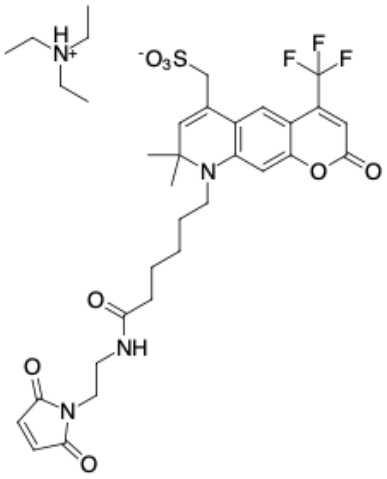
Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

AF 430 maleimide

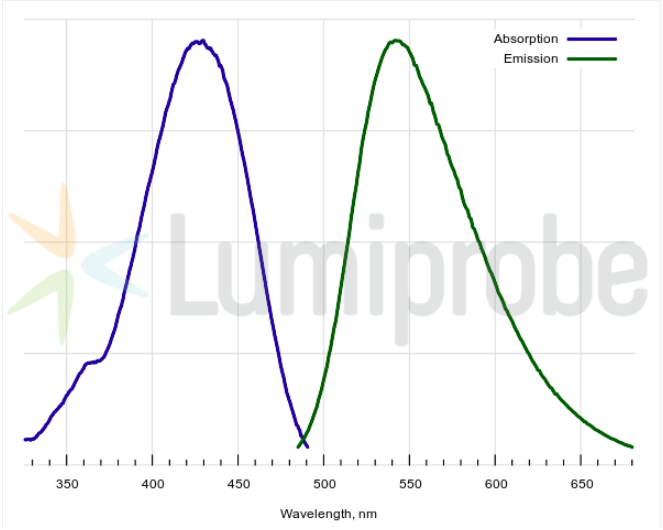
http://www.lumiprobe.com/p/af-430-maleimide

AF 430 is a hydrophilic dye of a coumarin nature. The dye is used in flow cytometry.

This maleimide derivative is reactive against thiol groups. Therefore, it allows labeling of many proteins, including those residing on the cell surface.



Structure of AF 430 maleimide



Absorption and emission spectra of AF 430

General properties

Appearance:	yellow solid
Mass spec M+ increment:	625.2
Molecular weight:	726.8
Molecular formula:	$C_{34}H_{45}N_4F_3O_8S$
IUPAC name:	(8-{6-[2-(2,5-Dioxo-1H-pyrrol-1-yl)ethylamino]-6-oxohexyl}-7,7-dimethyl-2-oxo-4-(trifluoromethyl)-1-oxa-8-aza-5,6,7,8-tetrahydroanthr-5-yl)methanesulfonic acid
Solubility:	soluble in water, polar organic solvents (DMF, DMSO)
Quality control:	NMR ^{1}H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receival at -20°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