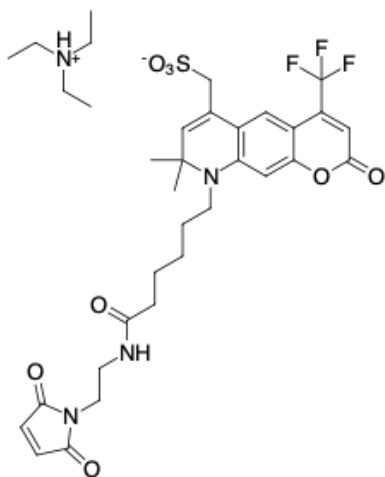


## AF430 maleimide

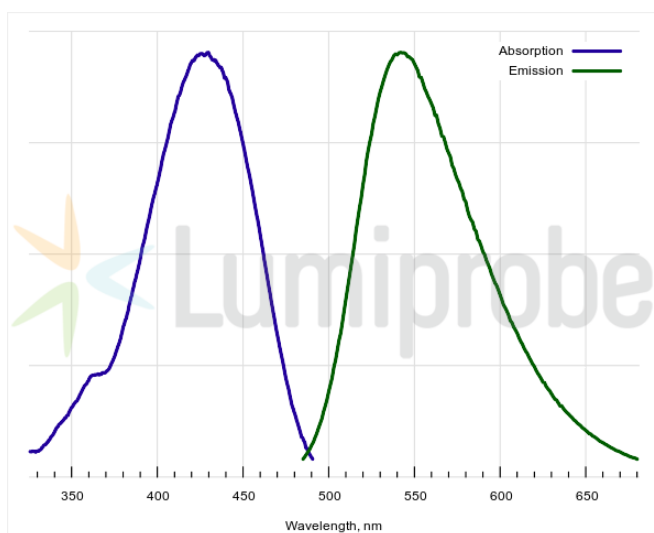
<http://www.lumiprobe.com/p/alexa-fluor-430-maleimide>

AF430 is a hydrophilic dye of coumarin nature, structurally identical to Alexa Fluor® 430. The dye is used in flow cytometry.

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



**Structure of AF430 maleimide**



**Absorption and emission spectra of AF430**

### General properties

Appearance:	yellow solid
Mass spec M+ increment:	625.2
Molecular weight:	726.8
Molecular formula:	C <sub>34</sub> H <sub>45</sub> N <sub>4</sub> F <sub>3</sub> O <sub>8</sub> S
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 <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

### Spectral properties

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

Alexa Fluor™ is a trademark of Thermo Fisher Scientific