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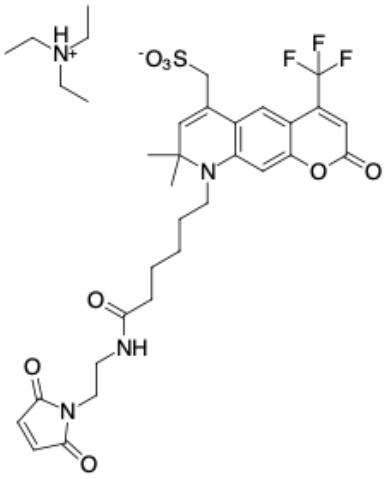
# AF 430 maleimide

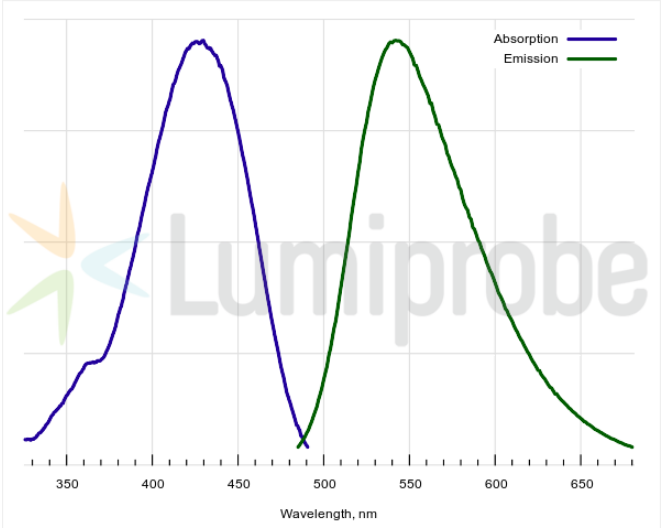
http://www.lumiprobe.com/p/alexa-fluor-430-maleimide

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. |

**Spectral properties**

| | |
|---|---|
| Excitation/absorption maximum, nm: | 430 |
| ε, L·mol$^{-1}$·cm$^{-1}$: | 15955 |
| Emission maximum, nm: | 542 |
| Fluorescence quantum yield: | 0.23 |