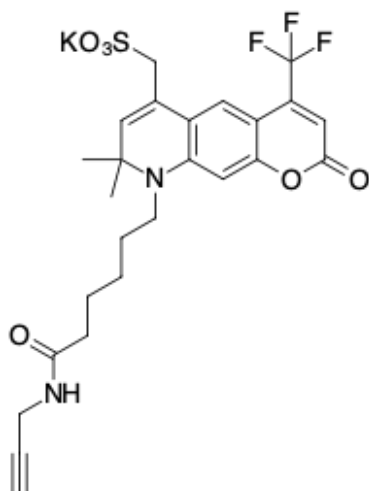


AF430 alkyne

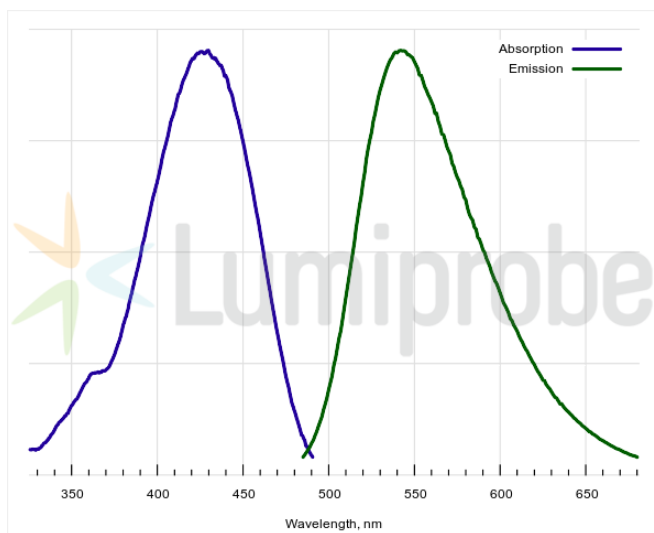
<http://www.lumiprobe.com/p/alexa-fluor-430-alkyne>

AF430 is a sulfonated coumarin dye that is useful for flow cytometry and antibody labeling. The fluorescence is constant in wide range of pH values.

This particular derivative contains terminal alkyne group that is suitable for copper catalyzed CuAAC reaction.



Structure of AF430 alkyne



Absorption and emission spectra of AF430

General properties

| | |
|---------------------|---|
| Appearance: | orange solid |
| Molecular weight: | 578.64 |
| Molecular formula: | C ₂₅ H ₂₆ N ₂ F ₃ KO ₆ S |
| Solubility: | good in water, DMF, DMSO |
| 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. Desiccate. |

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 |