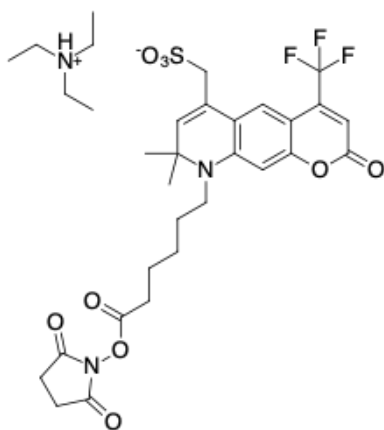


AF 430 NHS ester

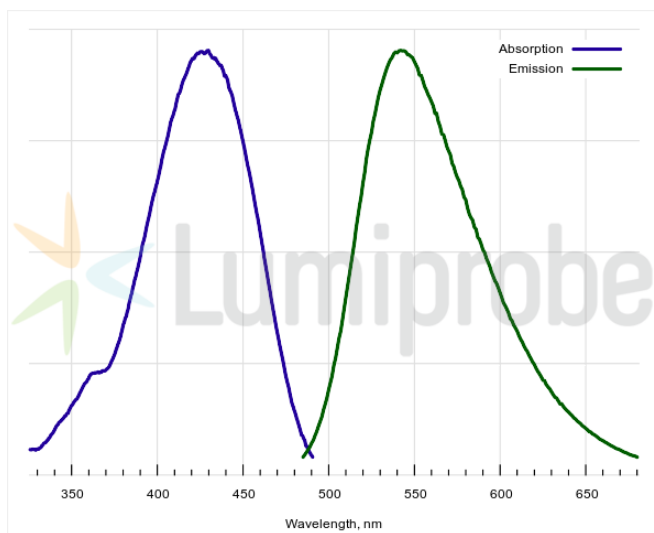
<http://www.lumiprobe.com/p/af430-nhs-ester>

AF 430 is a hydrophilic dye. It is used in flow cytometry and other applications.

The NHS ester functional group allows to conjugate the fluorophore efficiently with primary and secondary amine groups in both aqueous buffers and anhydrous conditions.



Structure of AF 430 NHS ester



Absorption and emission spectra of AF 430

General properties

| | |
|---------------------|---|
| Appearance: | yellow powder |
| Molecular weight: | 701.75 |
| CAS number: | 467233-94-9 |
| Molecular formula: | C ₃₂ H ₄₂ N ₃ F ₃ O ₉ S |
| Solubility: | good in water, DMF, DMSO |
| Quality control: | NMR ¹ 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 ⁻¹ ·cm ⁻¹ : | 15955 |
| Emission maximum, nm: | 542 |
| Fluorescence quantum yield: | 0.23 |
| CF ₂₆₀ : | 0,59 |
| CF ₂₈₀ : | 0,24 |