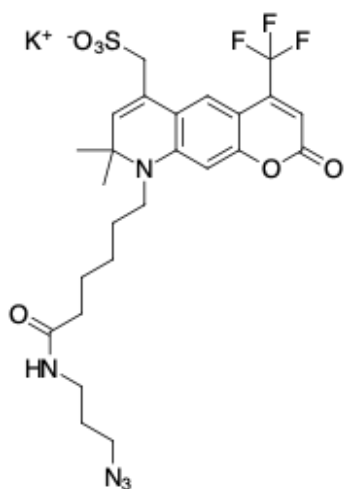


## AF 430 azide

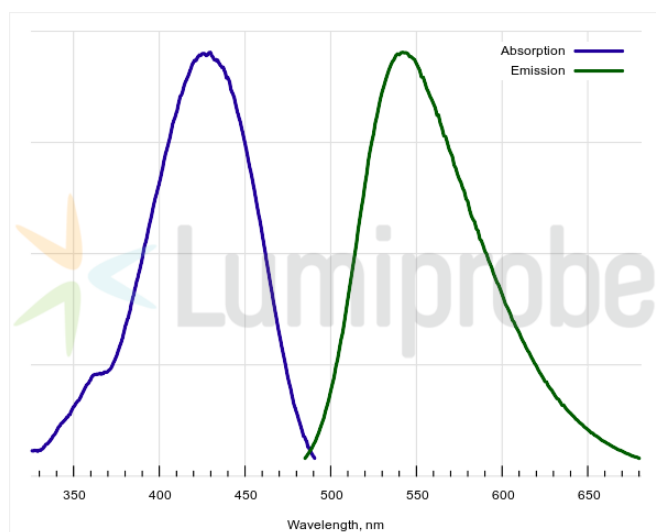
<http://www.lumiprobe.com/p/af-430-azide>

AF 430 is a fluorescent dye. It can be excited by 405 nm violet laser or 445 nm laser paired, for example, with 510/80 nm bandpass filter.

Azide moiety allows quick and effective labeling and detection of terminal alkynes via a copper-catalyzed click reaction (CuAAC) or of strained cyclooctynes via a copper-free click chemistry reaction (SPAAC). Mild reaction conditions are suitable for most biomolecules, cells, and tissues. The product is water soluble and insensitive to pH changes between pH 4 and pH 10.



**Structure of AF 430 azide**



**Absorption and emission spectra of AF 430**

### General properties

|                     |  |
|---------------------|--|
| Appearance:         | yellow solid   |
| Molecular weight:   | 623.69   |
| Molecular formula:  | C <sub>25</sub> H <sub>29</sub> N <sub>5</sub> F <sub>3</sub> KO <sub>6</sub> S  |
| Solubility:         | good in water, DMF, DMSO   |
| Quality control:    | NMR <sup>1</sup> 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.  |
| 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·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 15955 |
| Emission maximum, nm:                      | 542   |
| Fluorescence quantum yield:                | 0.23  |