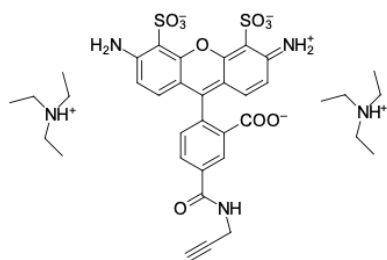


## AF 488 alkyne

<http://www.lumiprobe.com/p/af-488-alkyne-5>

Alkyne derivative of AF 488 dye for copper-catalyzed cycloaddition to azides (CuAAC). AF 488 alkyne is used for fluorescent labeling of azidated biomolecules, polymers, and surfaces. AF 488 is sulfonated rhodamine, a bright, photostable, and hydrophilic fluorophore that emits in the green channel (absorption max. is at 495 nm, emission max. is at 519 nm).



**Structure of AF 488 alkyne, 5-isomer**

### General properties

|                     |  |
|---------------------|--|
| Appearance:         | orange solid   |
| Molecular weight:   | 647.72   |
| Molecular formula:  | C <sub>24</sub> H <sub>15</sub> K <sub>2</sub> N <sub>3</sub> O <sub>10</sub> S <sub>2</sub>   |
| Quality control:    | NMR <sup>1</sup> H and HPLC-MS (95+%)  |
| Storage conditions: | 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.   |
| 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:         | 495   |
| ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 71800 |
| Emission maximum, nm:                      | 519   |
| Fluorescence quantum yield:                | 0.91  |
| CF <sub>260</sub> :                        | 0.16  |
| CF <sub>280</sub> :                        | 0.10  |