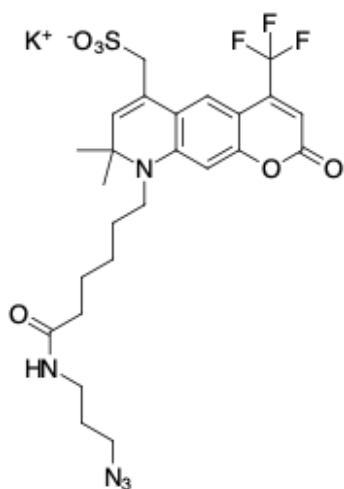


AF430 azide

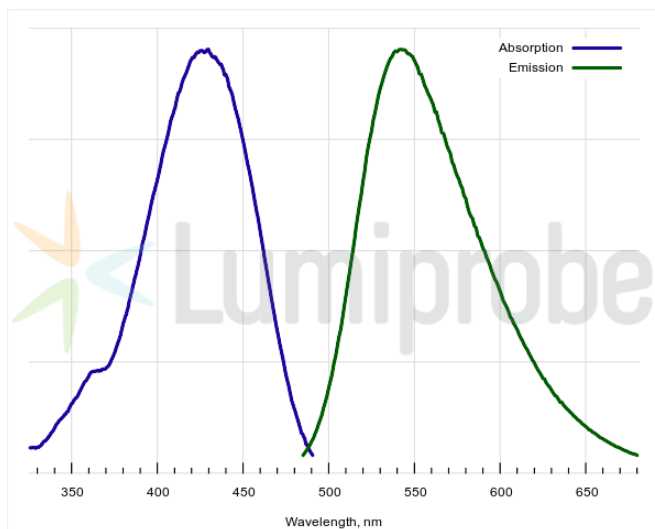
<http://www.lumiprobe.com/p/alexa-fluor-430-azide>

AF430 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. 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 AF430 azide



Absorption and emission spectra of AF430

General properties

Appearance:	yellow solid
Molecular weight:	623.69
Molecular formula:	C ₂₅ H ₂₉ N ₅ 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