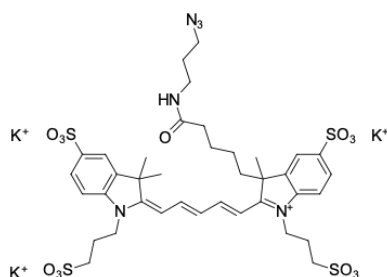


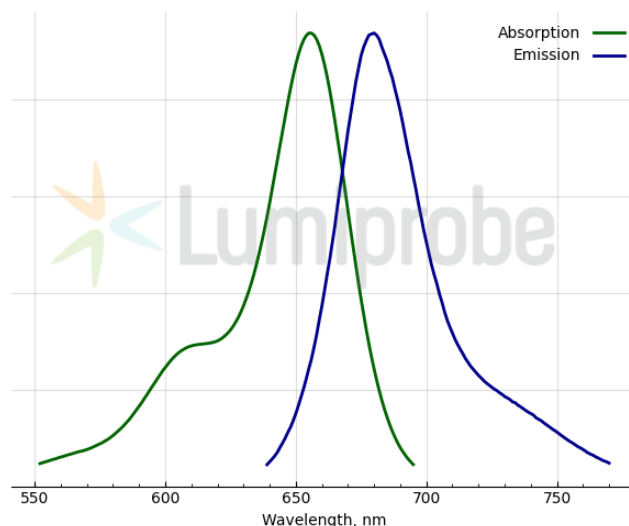
AF 647 azide

<http://www.lumiprobe.com/p/af647-azide>

AF 647 Azide is a fluorescently labeled azide that reacts with alkynyl derivatives of biomolecules (terminal alkynes and cyclooctynes) via click reactions to form stable adducts. AF 647 is a bright, photostable, and hydrophilic fluorophore emitting in the far-red channel (absorption max. is at 650 nm, emission max. is at 671 nm). AF 647 azide is useful for cell labeling, fluorescence microscopy, and flow cytometry.



Structure of AF 647 azide



Absorption and emission spectra of AF 647

General properties

Appearance: golden-blue solid
Molecular weight: 1041.37
Molecular formula: C₃₈H₄₇N₅O₁₃S₄
IUPAC name: 3-(5-((3-azidopropyl)amino)-5-oxopentyl)-2-((1E,3E)-5-((E)-3,3-dimethyl-5-sulfonato-1-(3-sulfonatopropyl)indolin-2-ylidene)penta-1,3-dien-1-yl)-3-methyl-1-(3-sulfonatopropyl)-3H-indol-1-ium-5-sulfonate
Solubility: good in water, DMSO, DMF
Quality control: NMR ¹H, 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: 655
ε, L·mol⁻¹·cm⁻¹: 191800
Emission maximum, nm: 680
Fluorescence quantum yield: 0.15
CF₃₆₀: 0.09
CF₂₈₀: 0.08