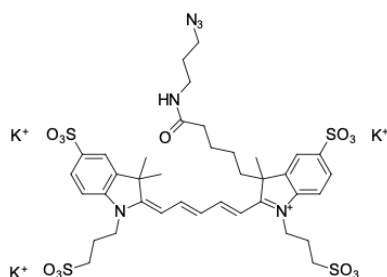


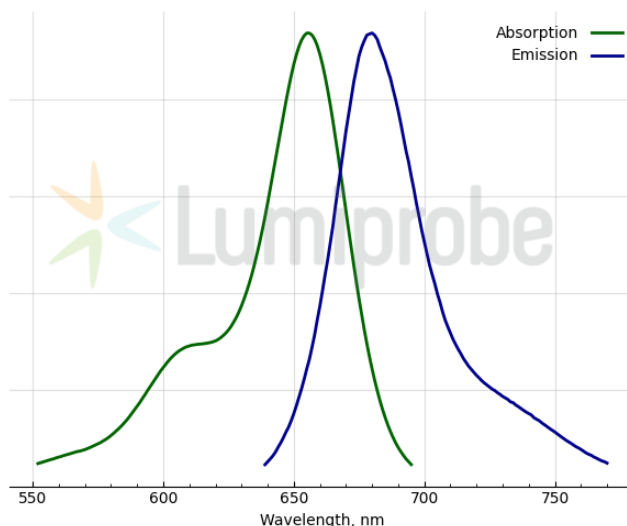
## AF 647 azide

<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:  $C_{38}H_{47}N_6K_3O_{13}S_4$   
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  $-20^\circ C$  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: 655  
 $\epsilon$ ,  $L \cdot mol^{-1} \cdot cm^{-1}$ : 191800  
Emission maximum, nm: 680  
Fluorescence quantum yield: 0.15  
 $CF_{260}$ : 0.09  
 $CF_{280}$ : 0.08