

XFD405 PEG4 DBCO

Catalog Number: 70015 Unit Size: 1 mg

Product Details	
Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	12 months upon recieving
Chemical Properties	
Appearance	Solid
Molecular Weight	1438.82
Soluble In	DMSO
Chemical Structure	
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Spectral Properties

Excitation Wavelength	401 nm
Emission Wavelength	421 nm

Applications

XFD405, manufactured by AAT Bioquest, is a blue-fluorescent dye that is structurally identical to Alexa Fluor™ 405 (ThermoFisher). The incorporation of a PEG4 linker enhances its aqueous ability, and it is effectively excited by the 407 nm krypton laser line or the 408 nm violet laser diode, making it suitable for a range of fluorescence-based techniques. XFD405 is pH-insensitive across a wide range (pH 4 - 10) and exhibits minimal quenching when conjugated to proteins, ensuring consistent fluorescence signals in live-cell imaging. With an excitation maximum at 401 nm and emission at 422 nm, XFD405 is well-suited for multicolor flow cytometry and super-resolution microscopy (STORM), providing reliable performance in applications requiring distinct spectral separation and photostability.