

ATTO 590 DBCO

Catalog Number: 70245 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	1267.87
Soluble In	DMSO
Chemical Structure	
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Spectral Properties

Excitation Wavelength	592 nm
Emission Wavelength	621 nm

Applications

<PATTO 590 is a rhodamine-based fluorescent dye characterized by its strong absorption, high fluorescence quantum yield, and excellent photostability and thermal stability. It exhibits moderate hydrophilicity and is optimally excited within the 575-610 nm wavelength range. ATTO 590 emits in the orange-red region of the visible spectrum, with fluorescence effectively quenched by BHQ®-2 dye. This dye is particularly suited for advanced applications in single-molecule detection and high-resolution microscopy techniques such as PALM, dSTORM, and STED microscopy. Additionally, it is compatible with flow cytometry (FACS), fluorescence in situ hybridization (FISH), FRET, and various other biological assays. ATTO 590 is a suitable alternative to Alexa Fluor® 594 for these applications.