

iFluor™ 647 TetrazineCatalog number: 1019
Unit size: 1 mg**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	1156.25
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	656 nm
Emission Wavelength	670 nm

Applications

The tetrazine-trans-cyclooctene (TCO) ligation constitutes a non-toxic biomolecule labeling method of unparalleled speed. A tetrazine-functionalized molecule reacts with a TCO-functionalized molecule, forming a stable conjugate via a dihydropyrazine moiety. This has gained popularity due to its extremely fast kinetics. AAT Bioquest offers a group of tetrazine- and TCO-containing dyes for exploring various biological systems that can use this powerful click reaction. iFluor™ 647 tetrazine can be readily used to label TCO-modified biological molecules for fluorescence imaging and other fluorescence-based biological applications. The conjugates prepared with iFluor™ 647 dye have spectral properties almost identical to the popular Cy5 and Alexa Fluor® 647. In the most cases, the antibody conjugates prepared with iFluor™ 647 tend to have higher signal/background ratio than the spectrally similar dye conjugates (sch as Cy5 and Alexa Fluor® 647, Alexa Fluor® is the trademark of Invitrogen).