

Texas Red TCO *Single isomer*Catalog number: 899
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	815.01
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	586 nm
Emission Wavelength	603 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 inverse electron demand cycloaddition reaction has gained popularity due to the potential for extremely fast cycloaddition kinetics with TCO as the dienophile. AAT Bioquest offers a group of tetrazine- and TCO-containing dyes for exploring various biological systems that can use this powerful click reaction. Texas Red-TCO can be readily used to label tetrazine-modified biological molecules for fluorescence imaging and other fluorescence-based biochemical analysis. It is widely used for labeling tetrazine-modified peptides, proteins and oligos etc.