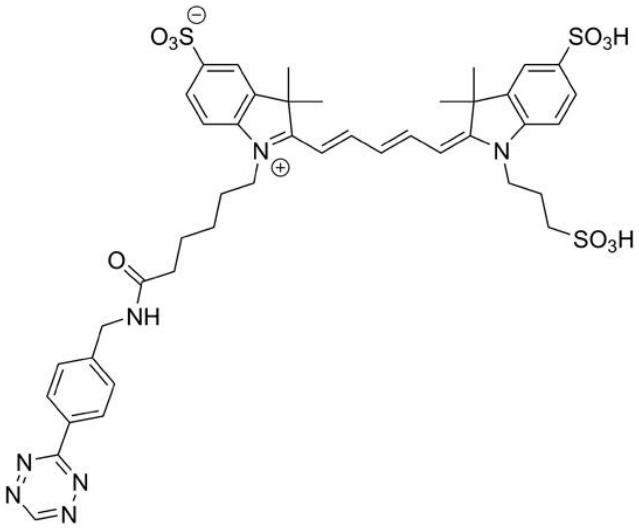
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

CY5 TETRAZINE

SKU: CCT-1189



Description

Terazine-activated Cy5 dye reacts with TCO-containing compounds via a Inverse-Electron-Demand Diels-Alder reaction to form a stable covalent bond and does not require Cu-catalyst or elevated temperatures. The inverse-electron demand Diels-Alder cycloaddition reaction of TCO with tetrazines is a bioorthogonal reaction that possesses exceptional kinetics and selectivity. Such excellent reaction rate constants are unparalleled by any other bioorthogonal reaction pair described to date.

Cy5 Tetrazine is a water-soluble, pH-insensitive from pH 4 to pH 10, far-red-fluorescent probe with excitation ideally suited for the 633 nm or 647 nm laser lines. Its absorption and emission spactra are almost identical to those of Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

This is sulfonated dye is also known as sulfo-Cyanine5.

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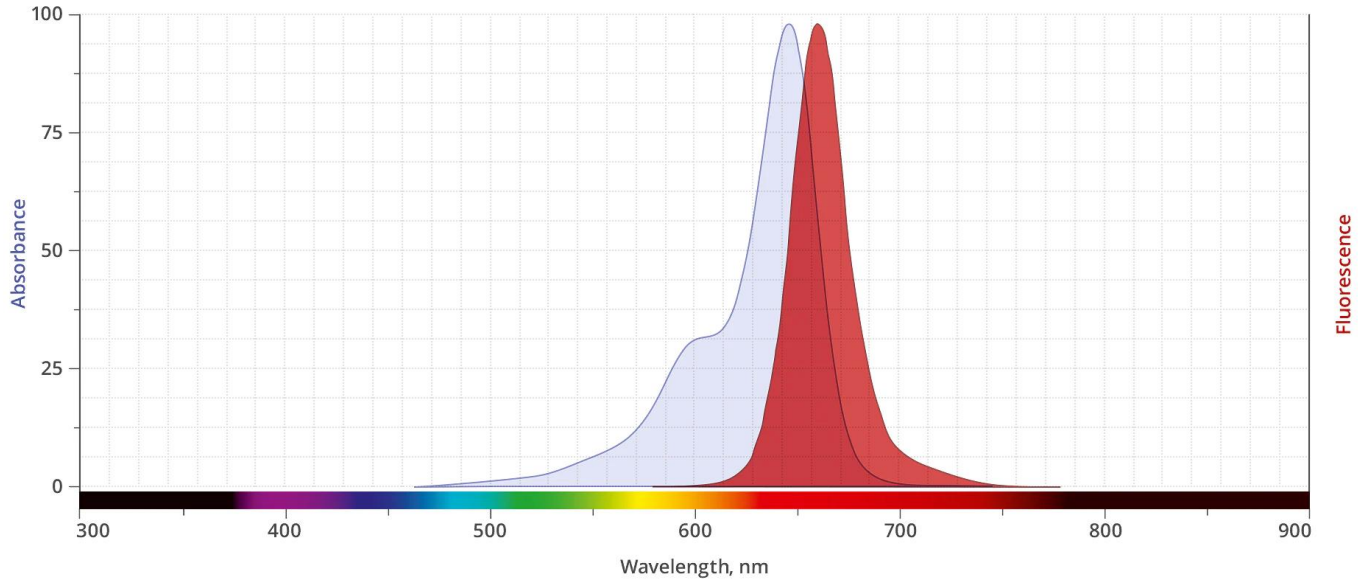

Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	649/671 nm
Extinction Coefficient	250,000
Flow Cytometry Laser Line	633 or 635 nm
Microscopy Laser Line	633 or 635 nm
Spectrally Similar Dyes	Alexa Fluor® 647, Atto™ 647, CF® 647 Dye, DyLight® 649
Molecular weight	919.27
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Blue solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature