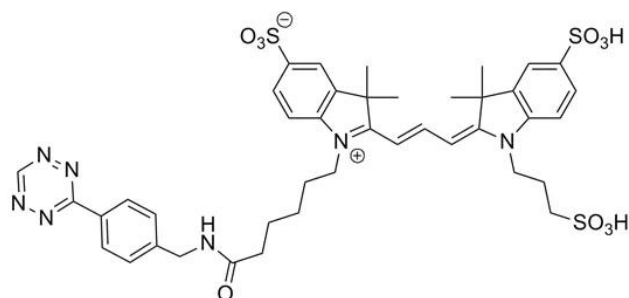


CY3 TETRAZINE

SKU: CCT-1204



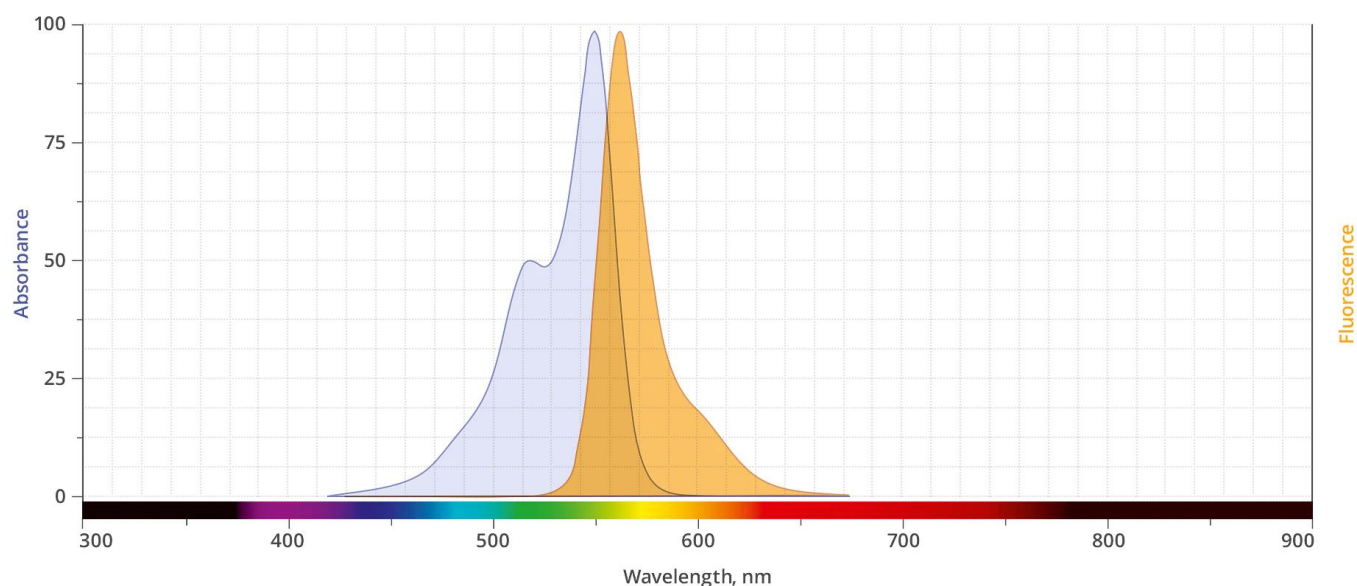
Description

Tetrazines demonstrate exceptionally fast cycloaddition kinetics (up to 30 000 M⁻¹ s⁻¹) with *trans*-cyclooctenes (TCO) as the dienophile, the fastest kinetics ever reported for any bioorthogonal reaction. In addition, inverse-Electron-Demand Diels-Alder reaction of tetrazines *trans*-cyclooctene forms a stable covalent bond and does not require Cu-catalyst or elevated temperatures. In applications such as *in vivo* cancer imaging or pre-targeted cell labeling studies where rapid reaction kinetics are desired, a faster hydrogen substituted Cy®3 Tetrazine probe would be a probe of choice.

Cy®3 is a bright, water-soluble, and pH insensitive orange-fluorescent dye that can be excited using the 532 nm or 555 nm laser line and visualized with TRITC (tetramethylrhodamine) filter sets. Cy3 conjugates give less background than TAMRA and most other commonly used fluorescent dyes.

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Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	553/569 nm
Extinction Coefficient	150,000
Flow Cytometry Laser Line	532 or 555 nm
Microscopy Laser Line	532 or 555 nm
Spectrally Similar Dyes	Alexa Fluor® 555, CF® 555 Dye, DyLight®555
Molecular weight	894.05
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Red solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

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