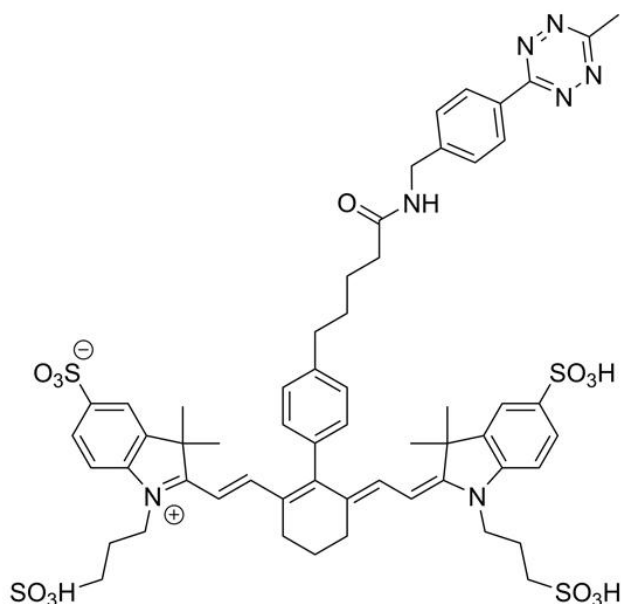


# CY7 METHYLTETRAZINE

SKU: CCT-1027



## Description

Methyltetrazine-activated Cy7 dye that 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 ( $k > 800 \text{ M}^{-1} \text{ s}^{-1}$ ) and selectivity. Such excellent reaction rate constants are unparalleled by any other bioorthogonal reaction pair described to date.

Cy7 Methyltetrazine is a bright and photostable near-IR probe that spectrally similar to Alexa Fluor® 750, DyLight® 750, and IRDye® 750 dye. The Cy7 Methyltetrazine is water-soluble, hydrophilic dye often a reagent of choice for assay where minimal non-specific binding and exceptional brightness is required. The fluorescence of Cy7 Methyltetrazine is pH insensitive from pH 4 to pH 10 and produces minimal autofluorescence of biological specimens in this region of the spectrum. Fluorescence of this long-wavelength Cyanine dye is not visible to the human eye but is readily detected by most imaging systems.

**For research use only. Not intended for animal or human therapeutic or diagnostic use.**

## Specifications

<b>Unit Size</b>	1 mg, 5 mg, 25 mg
<b>Abs/Em Maxima</b>	753/775 nm
<b>Extinction Coefficient</b>	255,000
<b>Spectrally Similar Dyes</b>	Alexa Fluor® 750, IRDye® 750, CF® 750 Dye, DyLight® 750
<b>Molecular weight</b>	1184.42
<b>CAS</b>	N/A
<b>Solubility</b>	Water, DMSO, DMF, MeOH
<b>Purity</b>	>95% (HPLC)
<b>Appearance</b>	Dark green solid
<b>Storage Conditions</b>	-20°C. Desiccate
<b>Shipping Conditions</b>	Ambient temperature

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