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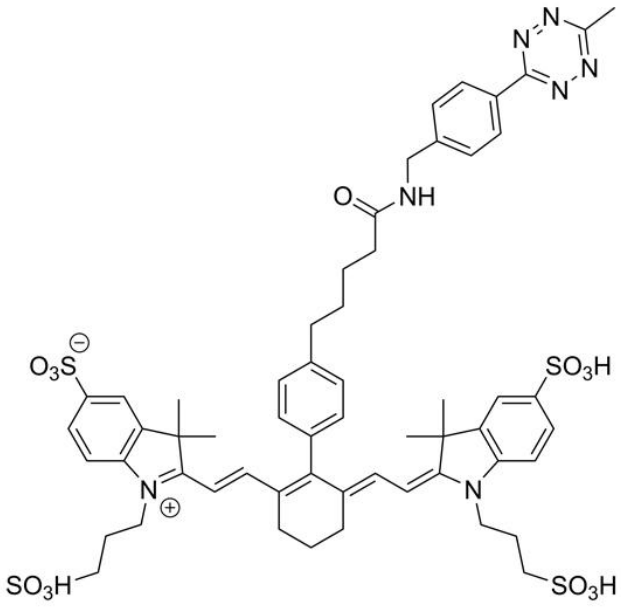
# CY7 METHYLTETRAZINE

**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 $M^{-1}$ $s^{-1}$) 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

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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.

# SPECIFICATIONS

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

# ABS/EM SPECTRA

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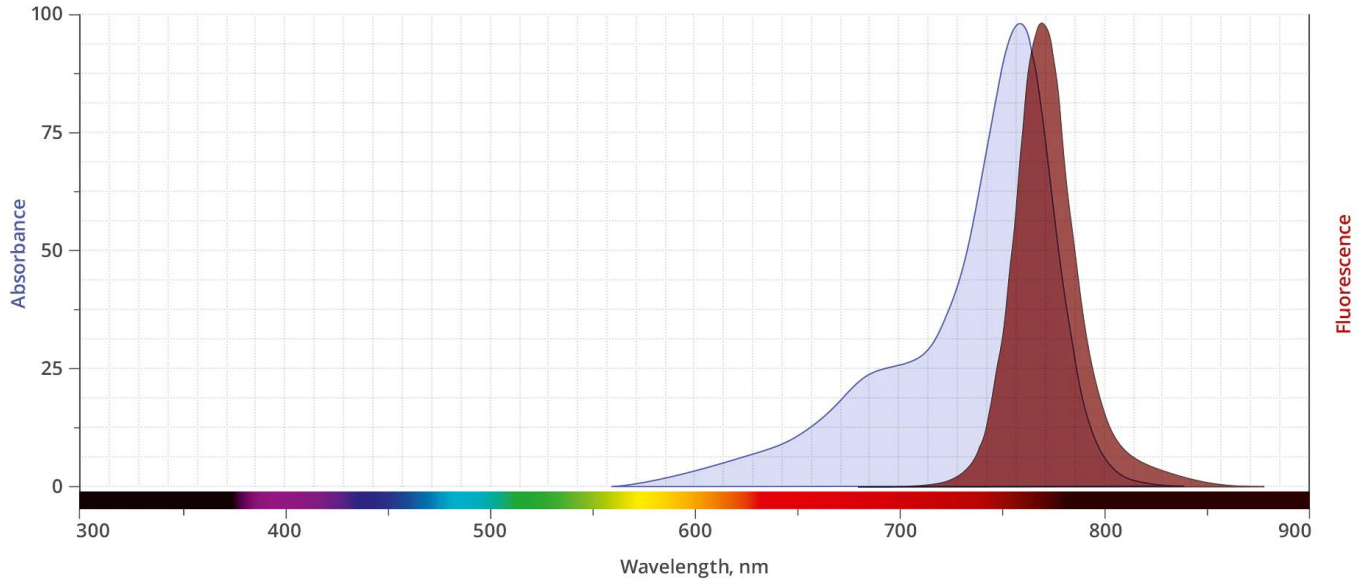
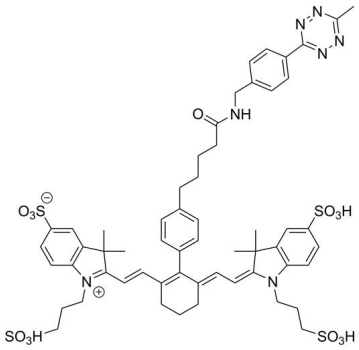



## DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

## GALLERY IMAGES

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