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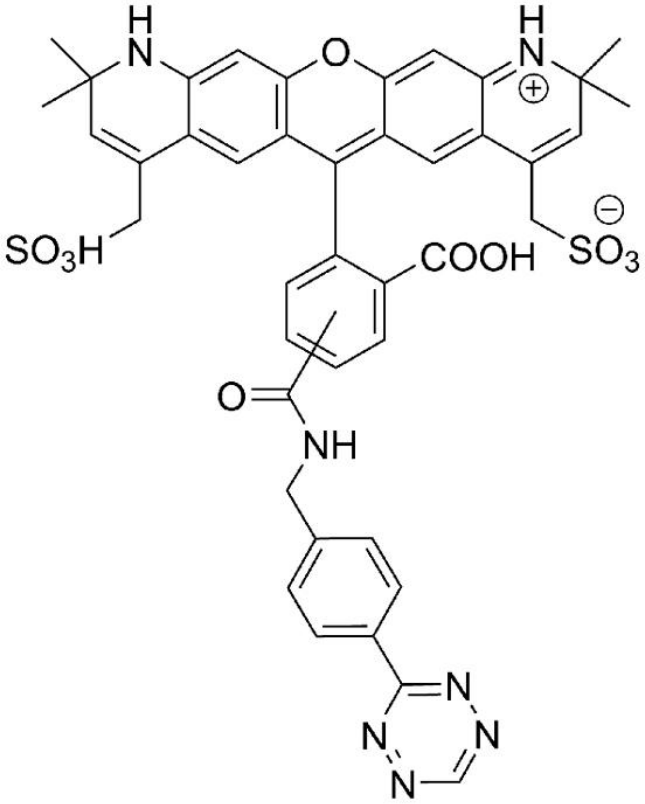
AZDYE 568 TETRAZINE

SKU: CCT-1363



DESCRIPTION

A bright, red-fluorescent probe used for detection TCO-tagged biopolymers. AZDye 568

Tetrazine demonstrates 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 applications such as in vivo cancer imaging or pre-targeted cell labeling studies where rapid reaction kinetics is a must AZDye 568 Tetrazine probe would of great value.

Tetrazines demonstrate exceptionally fast cycloaddition kinetics (up to 30 000 M^{-1} s^{-1}) with trans-

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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-cyclooctenea forms a stable covalent bond and does not require Cu-catalyst or elevated temperatures.

AZDye 568™ is a bright, and highly photostable, orange-fluorescent probe optimally excited by the 568 nm laser line on the Ar-Kr mixed-gas laser. This probe is water-soluble and its fluorescence is pH independent over a wide pH range. The brightness and photostability of this dye are best suited to direct imaging of low-abundance targets.

SPECIFICATIONS

Molecular Weight	863.92 (protonated)
Appearance	Red solid
Extinction Coefficient	88,000
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, MeOH, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 568, CF® 488 Dye
Excitation/Emission Maximum	578/602 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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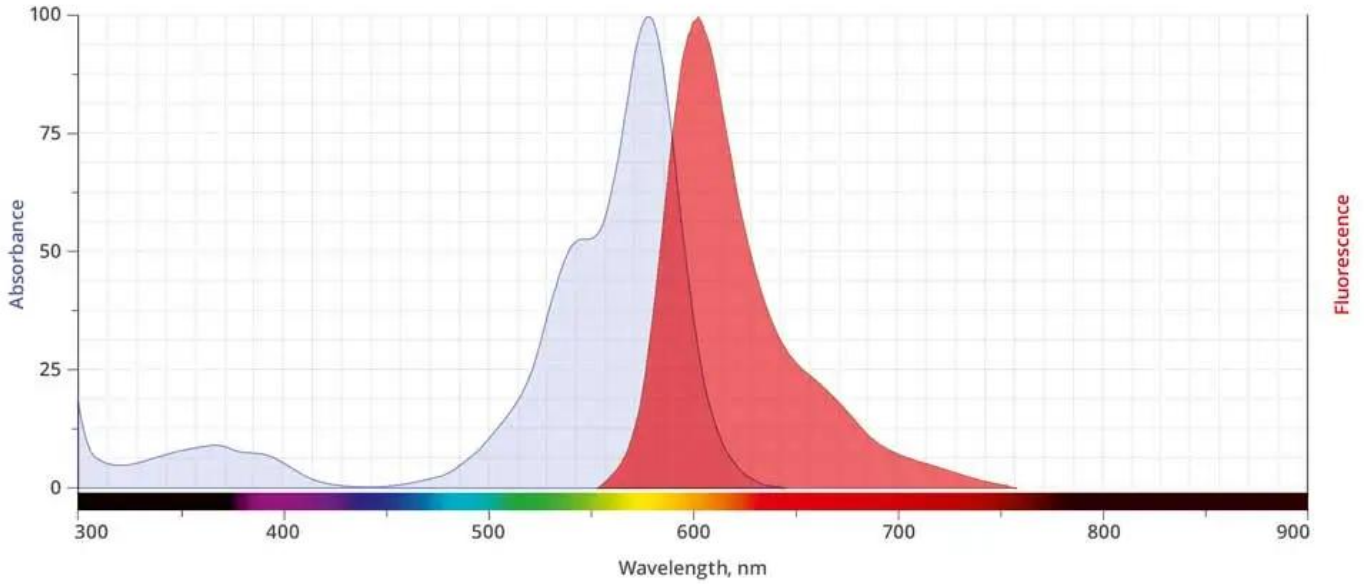
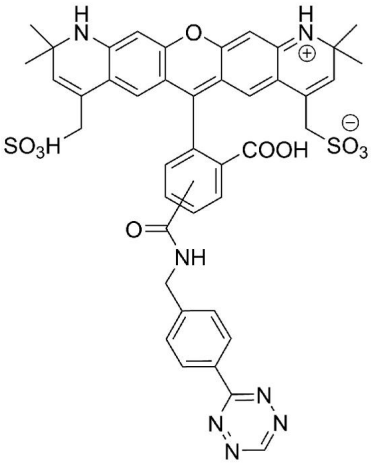


DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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