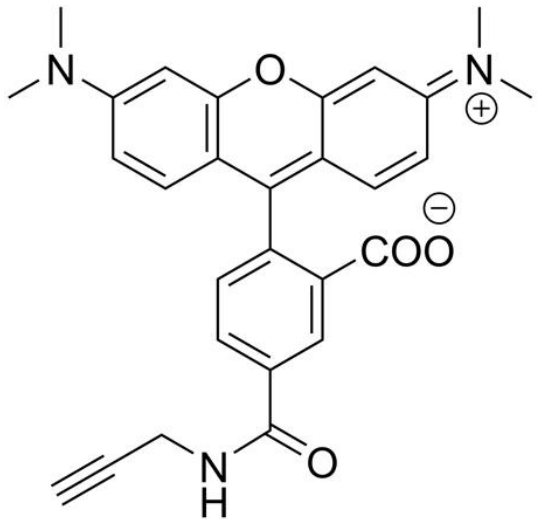
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5-TAMRA ALKYNE

SKU: CCT-1255



DESCRIPTION

5-TAMRA Alkyne (also known as TAMRA Alkyne, isomer 5) is the red-fluorescent probe that is compatible with various excitation sources including mercury arc, tungsten and xenon arc lamps, the 544 nm line of the Helium-Neon laser and the 532 nm green laser line. It is predominantly used for detection of terminal alkyne-tagged biomolecules via a copper-catalyzed click reaction (CUAAC). It also reacts with strained cyclooctyne via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures.

Although the mixed isomers of 5(6)-TAMRA Alkyne is a preferred, routinely used red fluorescent dye for staining proteins, labeling peptides and nucleotides with TAMRA mixed isomers might be troublesome due to significant signal broadening in HPLC purification. Peptides and nucleotides

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labeled with a single isomer TAMRA usually give better resolution in HPLC purification that is often required in the conjugation processes.

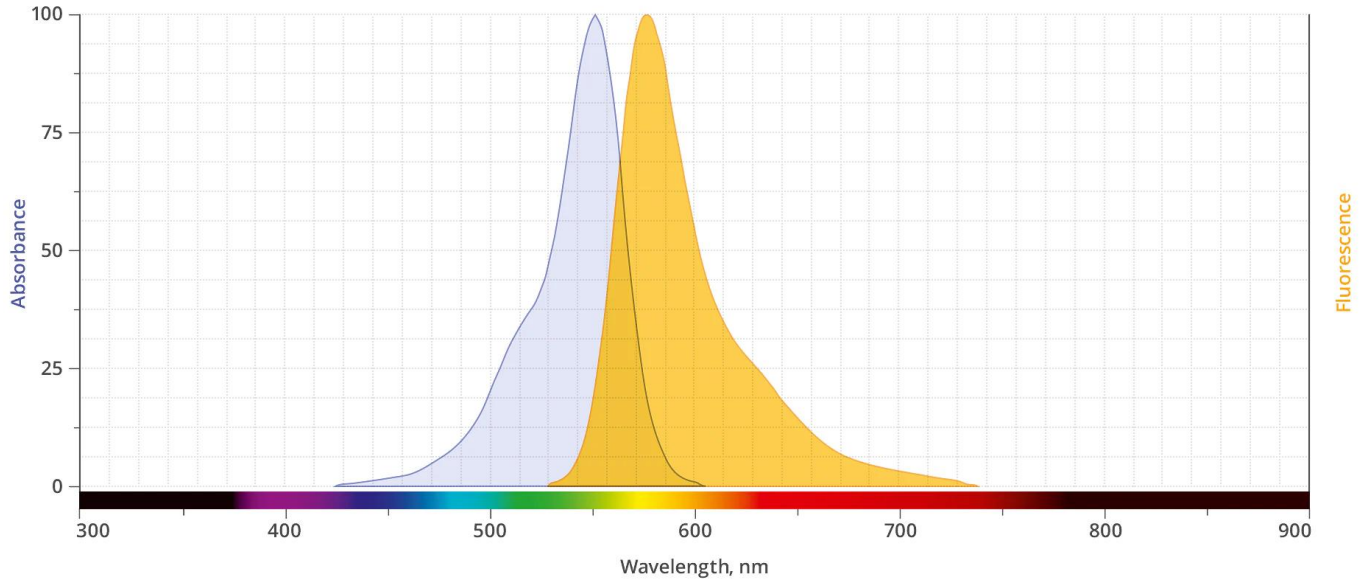
5-TAMRA Alkyne is structurally identical to Tetramethylrhodamine (TAMRA) Alkyne (5-Carboxytetramethylrhodamine, Propargylamide), 5-isomer ,Catalog number: T10183.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	467.52
Appearance	Dark red amorphous solid
Extinction Coefficient	89,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 546, Atto™ 543, CF® 543 Dye
Excitation/Emission Maximum	553/575 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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SELECTED REFERENCES

1. Kang, D., *et al.* (2021). Bioorthogonal Retro-Cope Elimination Reaction of N, N-Dialkylhydroxylamines and Strained Alkynes. *J Am Chem Soc.*, **143 (15)**, 5616-5621. [PubMed]
2. Ranzinger, R., *et al.* (2020). Mass Spectrometric Method for the Unambiguous Profiling of Cellular Dynamic Glycosylation. *ACS Chem. Biol.*, **15, 10**, 2692-2701. [ACSPublications]

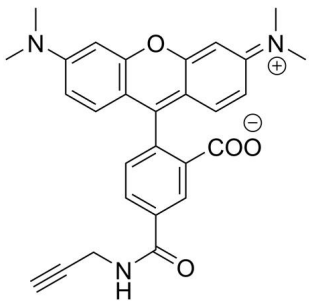
DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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