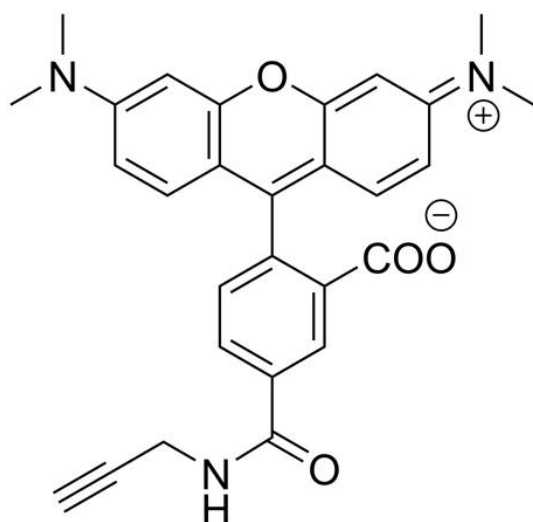


5-TAMRA ALKYNE

SKU: CCT-1255



Description

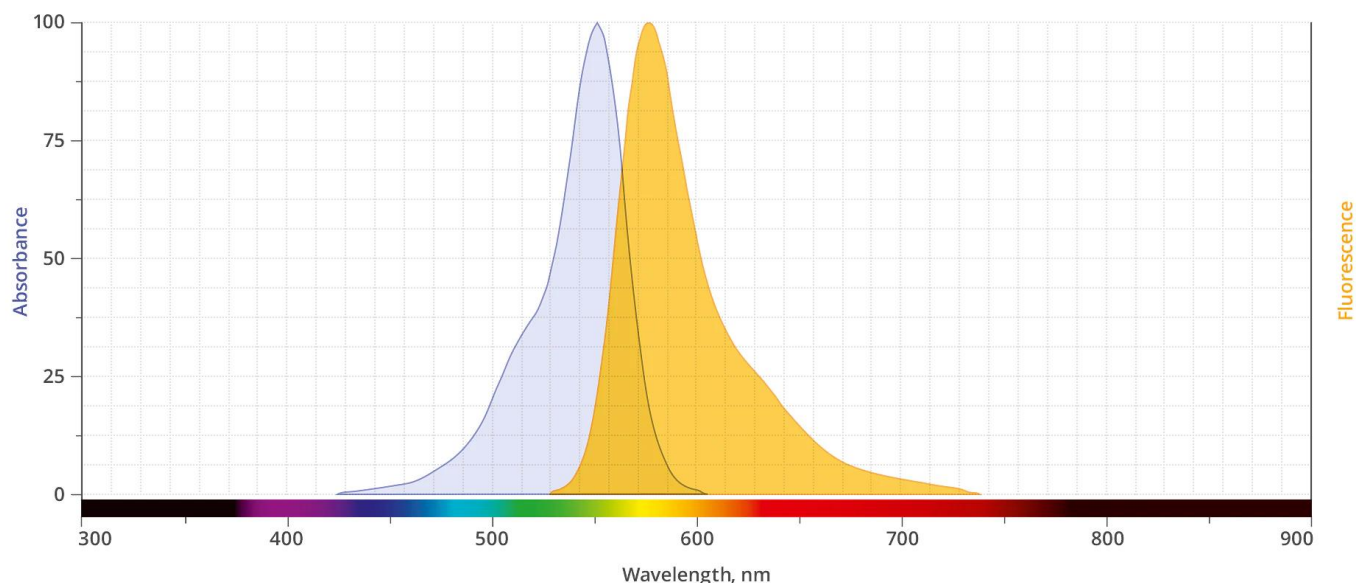
5-TAMRA Alkyne (also known as TAMRA Alkyne, isomer 5) is the red-fluorescent probe that is compatible with various excitation sources including mercury arc, tungsten and xenon arc lamps, the 544 nm line of the Helium-Neon laser and the 532 nm green laser line. It is predominantly used for detection of 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 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-

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

Carboxytetramethylrhodamine, Propargylamide), 5-isomer ,Catalog number: T10183.



Abs/Em Spectra

Specifications

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

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