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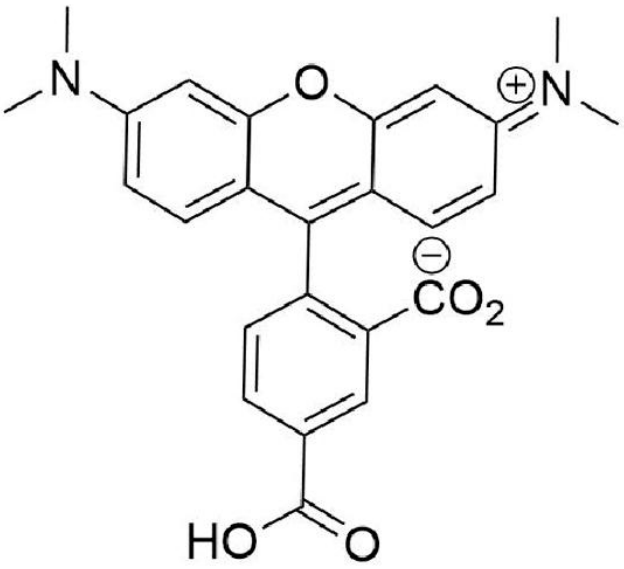
5-TAMRA ACID

SKU: FP-1252



Description

5-TAMRA Acid (5-Carboxytetramethylrhodamine) is a single, pure isomer of carboxytetramethylrhodamine (TMR) free acid. 5-TAMRA conjugates emit bright orange-fluorescence and its excitation band ideally suited to the 532 nm or 546 nm laser lines. It has been used widely for preparing peptide, protein, nucleotide and nucleic acid conjugates, especially fluorescent antibodies and avidin derivatives used in immunochemistry.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

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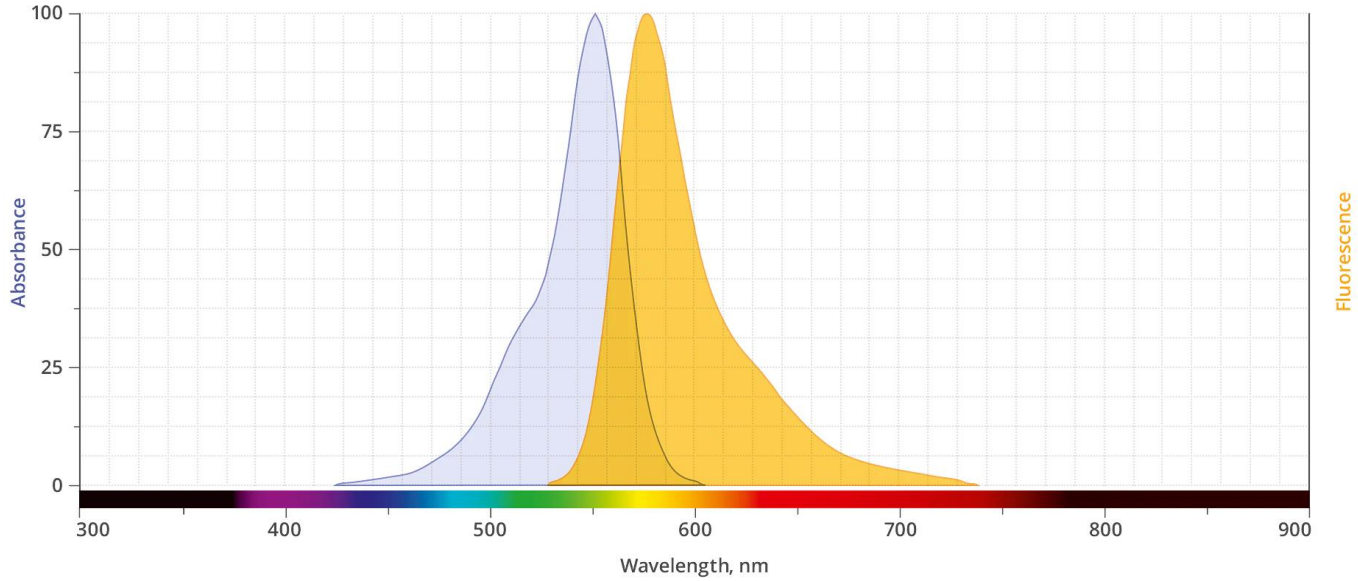
Although the mixed isomers of 5(6)-TAMRA Acid is a preferred, routinely used red fluorescent dye for staining proteins, labeling peptides and nucleotides, the purification of 5(6)-TAMRA labeled peptide and nucleotides might be troublesome due to significant signal broadening in HPLC purification. Peptides 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 is more often used for labeling peptides and proteins. 6-TAMRA is predominately used for labeling nucleotides and sequencing nucleic acids.

Abs/Em Spectra



Specifications

Unit Size	25 mg, 100 mg, 1000 mg, 5 g
Reactivity	Primary amines
Abs/Em Maxima	553/575 nm
Extinction coefficient	92,000 cm-1M-1
Solubility	DMSO, DMF, MeOH
Spectrally similar dyes	Alexa Fluor® 546, TAMRA, CF™ 543, MB™ 543
Molecular weight	430.46
Storage Conditions	-20°C.
Shipping Conditions	Ambient temperature

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