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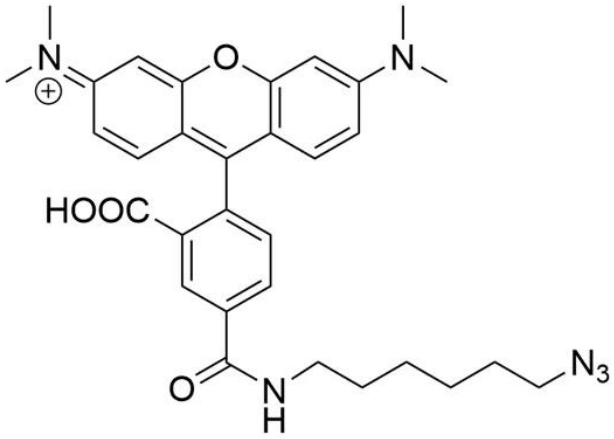
5-TAMRA AZIDE

SKU: CCT-1245



Description

Although the mixed isomers of 5(6)-TAMRA Acid is a preferred, routinely used orange-fluorescent dye for staining proteins, it is rearly used for labeling peptides and nucleotides. 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. 5-TAMRA dye is a bright fluorescent label 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.

TAMRA NHS Ester reacts specifically and efficiently with a primary amine (e.g., side chain of lysine residues or aminosilane-coated surfaces) at pH 7-9 to form a stable, covalent amide bond. The NHS ester (or succinimidyl ester) is the most popular tool for conjugating dyes to the primary amines of protein or antibody (Lys), amine-modified oligonucleotides, and other amine-containing molecules.

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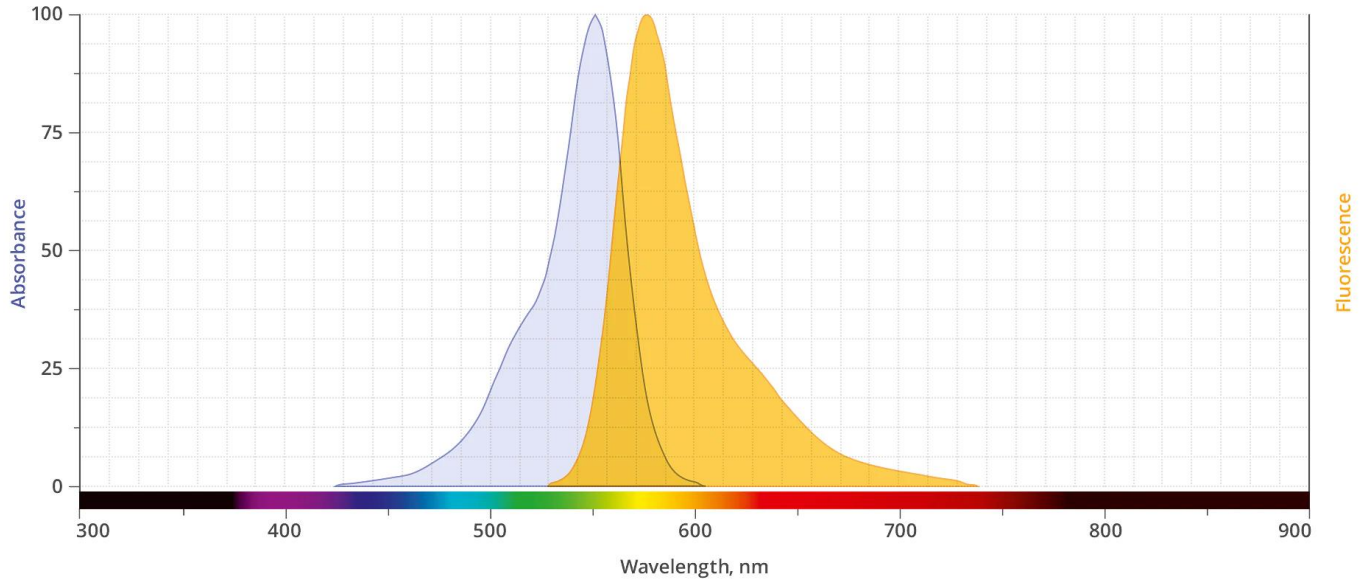

Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Abs/Em Maxima	553/575 nm
Extinction Coefficient	92,000
Flow Cytometry Laser Line	532 nm or 555 nm
Microscopy Laser Line	532 nm or 555 nm
Spectrally Similar Dyes	Alexa Fluor® 555, CF® 555, DyLight® 549
Molecular weight	527.53
CAS	150810-68-7
Solubility	Water, DMSO, DMF
Purity	>90% (HPLC)
Appearance	Dark red amorphous solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
