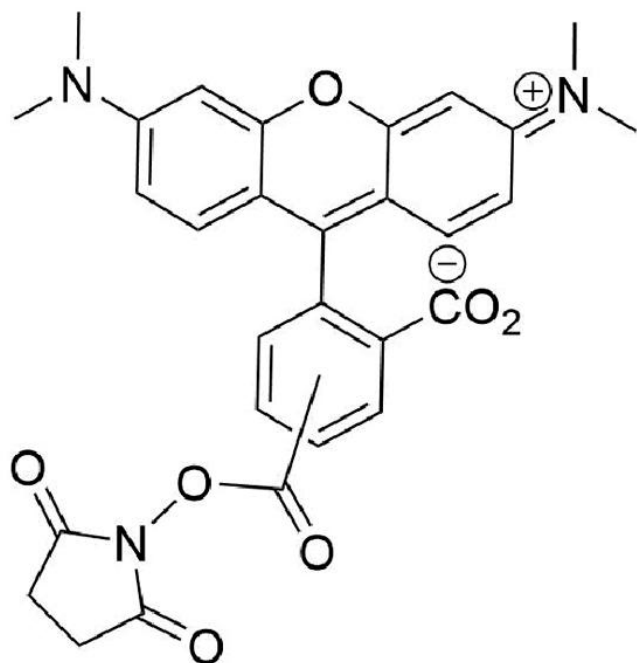


5(6)-TAMRA NHS ESTER

SKU: FP-1254



Description

488/532



Laser
line

TRITC



Common
filter set

556



Excitation
max

573



Emission
max

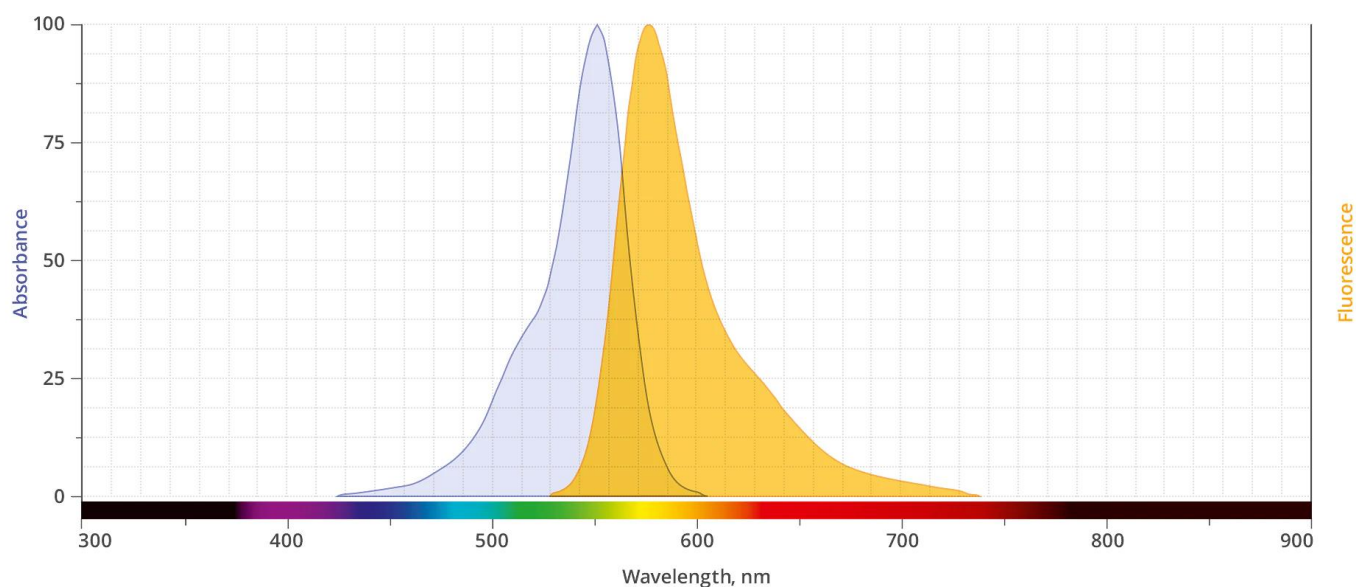
5(6)-TAMRA NHS Ester (5(6)-Carboxytetramethylrhodamine, TMR, TRITC) is a bright orange-fluorescent dye with excitation ideally suited to the 532 nm or 546 nm laser lines. It has been used widely for preparing peptide, protein, nucleotide and nucleic acid conjugates, especially

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fluorescent antibodies and avidin derivatives used in [immunochemistry](#). The absorbance and emission maxima of TAMRA conjugates are 553 nm and 575 nm respectively.

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.

Abs/Em Spectra



Specifications

Unit Size	25 mg, 100 mg, 1000 mg
Reactivity	Primary amines
Abs/Em Maxima	553/575 nm
Extinction coefficient	92,000 cm ⁻¹ M ⁻¹
Solubility	DMSO, DMF, MeOH
Spectrally similar dyes	Alexa Fluor® 546, TAMRA, CF™ 543, MB™ 543
Molecular weight	527.53
Storage Conditions	-20°C.

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Shipping Conditions Ambient temperature

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