

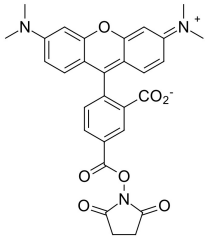
TAMRA NHS ester, 5-isomer (A270324)

Specifications:

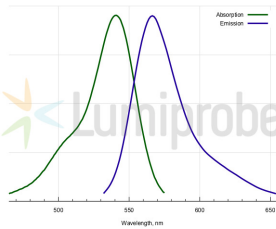
Name:	TAMRA NHS ester, 5-isomer
Description:	TAMRA (tetramethylrhodamine) is a xanthene dye of rhodamine series. This fluorophore has been used for quite a long time for the preparation of dual labeled qPCR TaqMan oligonucleotide probes containing TAMRA and fluorescein (FAM). Just like many other xanthene fluorophores, TAMRA is available as two isomers (5- and 6-isomer) which have nearly identical optical properties. This product is an isomerically pure 5-TAMRA. TAMRA NHS is an amine reactive reagent. It can be used for the labeling of proteins, peptides, and modified oligonucleotides containing amine groups.
Absorption Maxima:	541 nm
Extinction Coefficient:	84000 M ⁻¹ cm ⁻¹
Emission Maxima:	567 nm
Fluorescence Quantum Yield:	0.1
CAS Number:	321862-17-3
CF ₂₆₀ :	0.32
CF ₂₈₀ :	0.19
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₂₉ H ₂₅ N ₃ O ₇
Molecular Weight:	527.53 kDa
Product Form:	Dark colored solid.
Solubility:	Good in DMF and DMSO. Low in water.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

TAMRA NHS ester, 5-isomer (A270324)

Images:



Structure of 5-TAMRA NHS ester.



Absorption and emission spectra of 5-TAMRA.