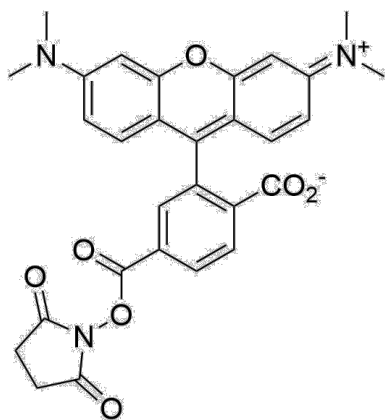


TAMRA NHS ester, 6-isomer

<http://www.lumiprobe.com/p/tamra-nhs-ester-6>

TAMRA (tetramethylrhodamine) is a xanthene dye with a fluorescence maximum at 567 nm.

This product is an N-Hydroxysuccinimide (NHS)-ester of TAMRA dye. Pure 6-isomer. TAMRA NHS-ester readily reacts with various amines and is used to generate fluorescently labeled proteins, peptides, antibodies, and other biomolecules.



Structure of TAMRA NHS ester, 6-isomer

General properties

Appearance:	red powder
Molecular weight:	527.53
CAS number:	150810-69-8
Molecular formula:	C ₂₉ H ₂₅ N ₃ O ₇
IUPAC name:	2-(6-(dimethylamino)-3-(dimethyliminio)-3H-xanthen-9-yl)-4-(((2,5-dioxopyrrolidin-1-yl)oxy)carbonyl)benzoate
Solubility:	good in DMF, DMSO
Quality control:	NMR ¹ H, HPLC-MS (90%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	541
ε, L·mol ⁻¹ ·cm ⁻¹ :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF ₂₆₀ :	0.34
CF ₂₈₀ :	0.17