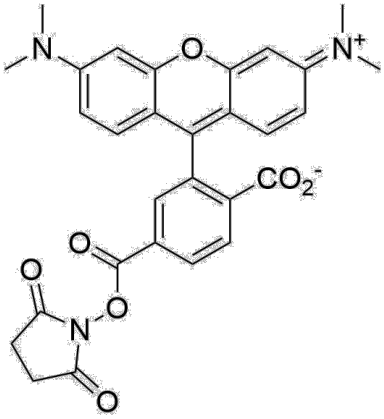
Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

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:	$C_{29}H_{25}N_3O_7$
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 ^1H, 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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	541
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF_{260}:	0.34
CF_{280}:	0.17