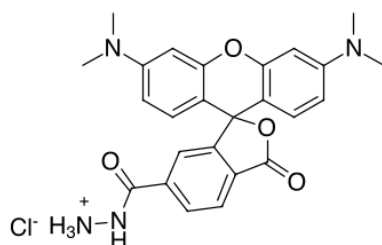


TAMRA hydrazide, 6-isomer

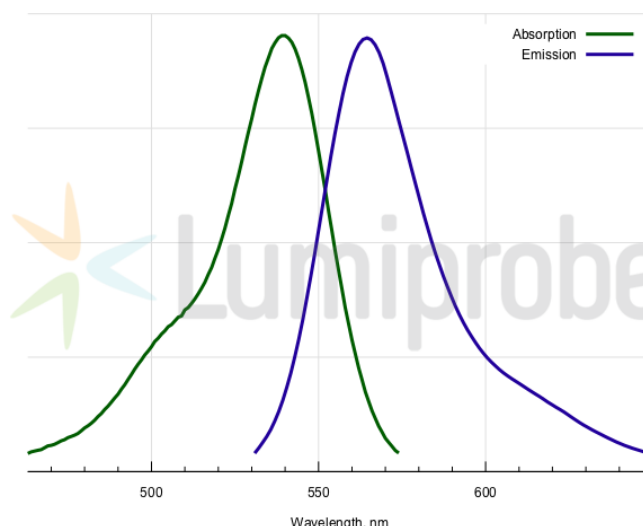
<http://www.lumiprobe.com/p/tamra-hydrazide-6>

Dye hydrazides are useful for the labeling of carbonyl compounds like aldehydes and ketones. Many sugars can be converted to carbonyl compounds by periodate oxidation.

Tetramethylrhodamine (TAMRA) is a xanthene fluorophore. This derivative is a pure 5-isomer of TAMRA bearing hydrazide group for the coupling with carbonyl compounds.



Structure of 6-TAMRA hydrazide



Absorption and emission spectra of 6-TAMRA

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	426.2
Molecular weight:	480.94
Molecular formula:	C ₂₅ H ₂₅ N ₄ ClO ₄
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 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·mol ⁻¹ ·cm ⁻¹ :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF ₂₆₀ :	0.32
CF ₂₈₀ :	0.19