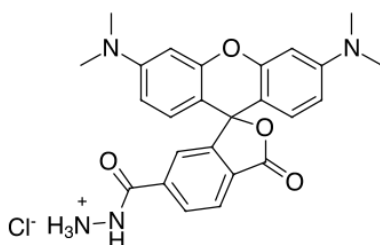


## TAMRA hydrazide, 6-isomer

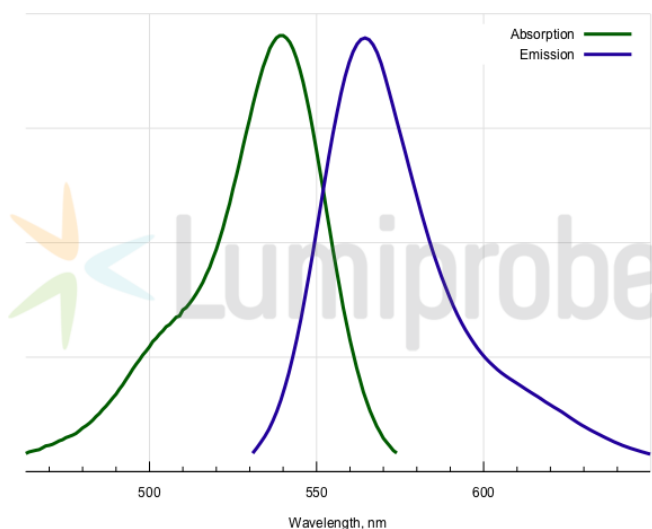
<http://www.lumiprobe.com/p/tamra-hydrazide-6>

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 <sub>25</sub> H <sub>25</sub> N <sub>4</sub> ClO <sub>4</sub>
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR <sup>1</sup> 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.

### Spectral properties

Excitation/absorption maximum, nm:	541
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF <sub>260</sub> :	0.32
CF <sub>280</sub> :	0.19