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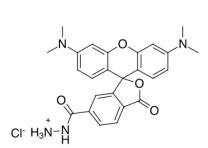
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TAMRA hydrazide, 6-isomer

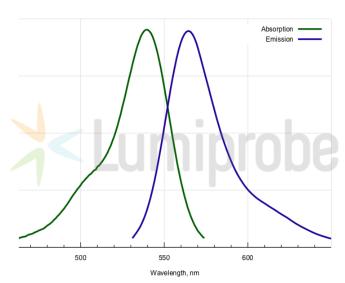
http://www.lumiprobe.com/p/tamra-hydrazide-6

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

 $\begin{array}{lll} \text{Mass spec M+ increment:} & 426.2 \\ \text{Molecular weight:} & 480.94 \\ \text{Molecular formula:} & C_{25} H_{25} N_4 \text{CIO}_4 \end{array}$

Solubility: good in DMF, DMSO, alcohols Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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} : 0.32 CF_{280} : 0.19