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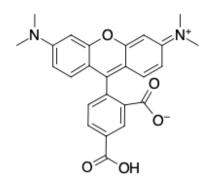
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TAMRA carboxylic acid, 5-isomer

http://www.lumiprobe.com/p/tamra-carboxylic-acid-5

Tetramethylrhodamine (TAMRA) is a xanthene dye with orange emission. The dye is a FRET acceptor for FAM and is sometimes used as a quencher of FAM. Like other xanthenes, TAMRA exists as two isomers (5- and 6-) with similar spectral properties. This compound is a pure 5-isomer of TAMRA.

TAMRA carboxylic acid is a non-reactive form of TAMRA dye that can be used as a reference standard in experiments involving TAMRA dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of TAMRA carboxylic acid, 5-isomer

General properties

Appearance: green powder

Molecular weight: 430.46 Molecular formula: $C_{25}H_{22}N_2O_5$

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: 24 months after receival at -20°C in the dark. Transportation: at room temperature

for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

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