

## **Lumiprobe Corporation**

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

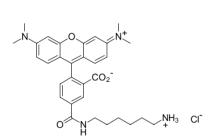
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

## TAMRA amine, 5-isomer

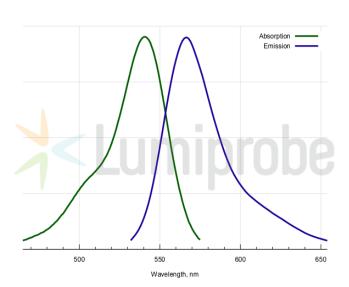
http://www.lumiprobe.com/p/tamra-amine-5

TAMRA (tetramethylrhodamine) is a well known fluorophore that has a long history of use in biomolecule labeling. TAMRA can serve as a FRET acceptor for FAM (fluorescein).

TAMRA amine is a derivative having a primary amine group that can be conjugated with various electrophiles like activated esters, epoxides, etc., used in reductive amination reactions, and in enzymatic transamination.



Structure of 5-TAMRA amine



Absorption and emission spectra of 5-TAMRA

## **General properties**

Appearance: dark red solid

Molecular weight: 565.1

CAS number: 2158336-47-9 (inner salt)

Molecular formula:  $C_{31}H_{37}N_4CIO_4$ 

Solubility: good in DMF, DMSO, alcohols Quality control: NMR <sup>1</sup>H, 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  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 84000 Emission maximum, nm: 567 Fluorescence quantum yield: 0.1  $CF_{260}$ : 0.32  $CF_{280}$ : 0.19