

Lumiprobe Corporation

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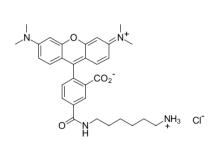
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TAMRA amine, 5-isomer

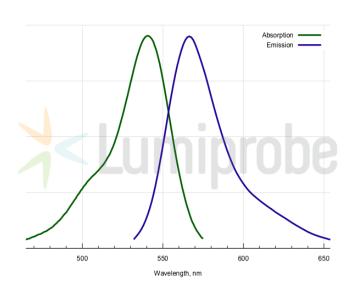
http://www.lumiprobe.com/p/tamra-amine-5

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 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.

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 , $L \cdot mol^{-1} \cdot cm^{-1}$: 84000 Emission maximum, nm: 567 Fluorescence quantum yield: 0.1 CF_{260} : 0.32 CF_{280} : 0.19