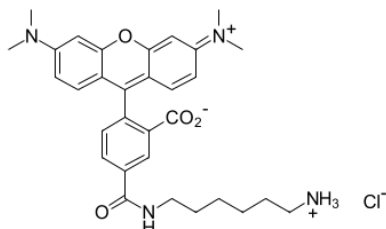


TAMRA amine, 5-isomer

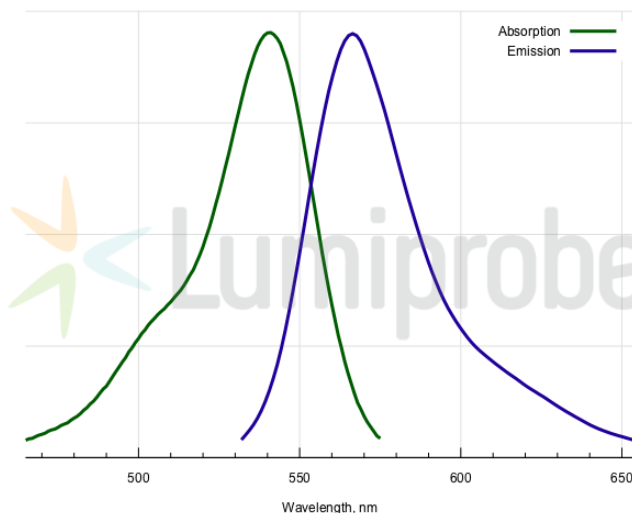
<http://www.lumiprobe.com/p/tamra-amine-5>

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:	$C_{31}H_{37}N_4ClO_4$
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR 1H , 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.
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