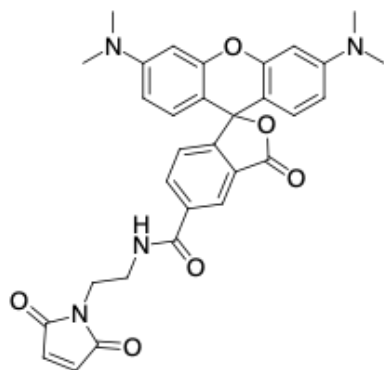


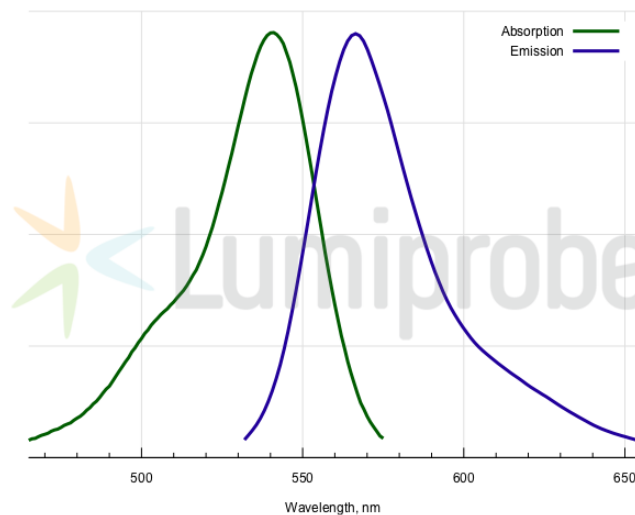
## TAMRA maleimide, 5-isomer

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

Maleimide derivative of TAMRA (tetramethylrhodamine) for the labeling of thiol groups. Pure 5-isomer of TAMRA.



**Structure of 5-TAMRA maleimide**



**Absorption and emission spectra of 5-TAMRA**

### General properties

Appearance: red powder

Mass spec 552.2

M+  
increment:

Molecular weight: 552.58

Molecular formula:  $C_{31}H_{28}N_4O_6$

IUPAC name: 1-[2-({3',6'-Bis(dimethylamino)-3-oxospiro[isobenzofuran-1,9'-xanthen]-5-yl} carbonylamino)ethyl]-1H-pyrrole-2,5-dione

Solubility: good in DMF, DMSO

Quality control: NMR  $^1H$ , HPLC-MS (95%)

Storage conditions: Storage: 12 months after receipt at  $-20^\circ C$  in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

### Spectral properties

Excitation maximum, nm: 541

$\epsilon$ ,  $L \cdot mol^{-1} \cdot cm^{-1}$ : 84000

Emission maximum, nm: 567

Fluorescence quantum yield: 0.1

$CF_{260}$ : 0.32

$CF_{280}$ : 0.19