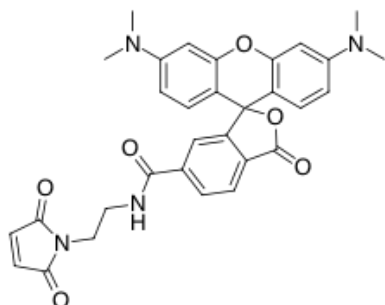


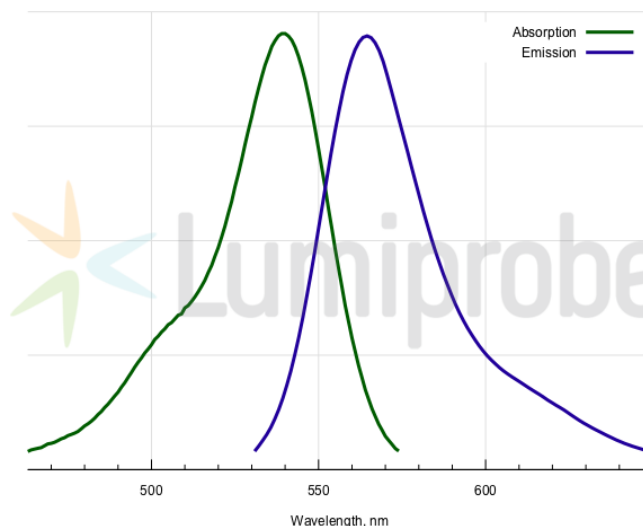
## TAMRA maleimide, 6-isomer

<http://www.lumiprobe.com/p/tamra-maleimide-6>

TAMRA (also known as TMR or tetramethylrhodamine) is a xanthene dye that has been used as a fluorescent label for decades. Xanthene dyes are available as two isomers (called 5- and 6-isomers) that have almost identical fluorescent properties but need to be separated to avoid doubling and smearing of labeled product peaks or bands during chromatography or electrophoresis. This is a pure 6-isomer of TAMRA maleimide, used to label proteins and peptides via thiol (SH) groups.



Structure of 6-TAMRA maleimide



Absorption and emission spectra of 6-TAMRA

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	551.2
Molecular weight:	552.58
Molecular formula:	C <sub>31</sub> H <sub>28</sub> N <sub>4</sub> O <sub>6</sub>
Solubility:	good in DMSO, DMF
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt 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
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF <sub>260</sub> :	0.32
CF <sub>280</sub> :	0.19