

## **Lumiprobe Corporation**

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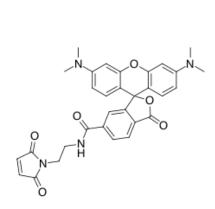
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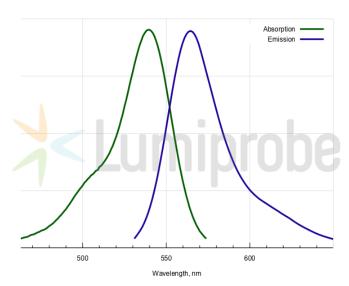
## **TAMRA** maleimide, 6-isomer

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, which can be 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:  $C_{31}H_{28}N_4O_6$ 

Solubility: good in DMSO, DMF

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 12 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  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 84000 Emission maximum, nm: 567 Fluorescence quantum yield: 0.1  $CF_{260}$ : 0.32  $CF_{280}$ : 0.19