

## **Lumiprobe Corporation**

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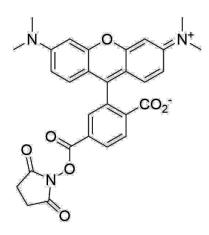
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## **TAMRA NHS ester, 6-isomer**

http://www.lumiprobe.com/p/tamra-nhs-ester-6

TAMRA (tetramethylrhodamine) is a xanthene dye with a fluorescence maximum at 567 nm.

This product is an N-Hydroxysuccinimide (NHS)-ester of TAMRA dye. Pure 6-isomer. TAMRA NHS-ester readily reacts with various amines and is used to generate fluorescently labeled proteins, peptides, antibodies, and other biomolecules.



Structure of TAMRA NHS ester, 6-isomer

## **General properties**

Appearance: red powder Molecular weight: 527.53 CAS number: 150810-69-8 Molecular formula: C29H25N3O7

IUPAC name: 2-(6-(dimethylamino)-3-(dimethyliminio)-3H-xanthen-9-yl)-4-(((2,5-dioxopyrrolidin-1-yl)oxy)carbonyl)benzoate

Solubility: good in DMF, DMSO Quality control: NMR 1H, HPLC-MS (90%)

Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Storage conditions:

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 541 maximum, nm:

 $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 84000 Emission maximum, 567

Fluorescence 0.1 quantum yield:

CF<sub>260</sub>: 0.34 CF<sub>280</sub>: 0.17