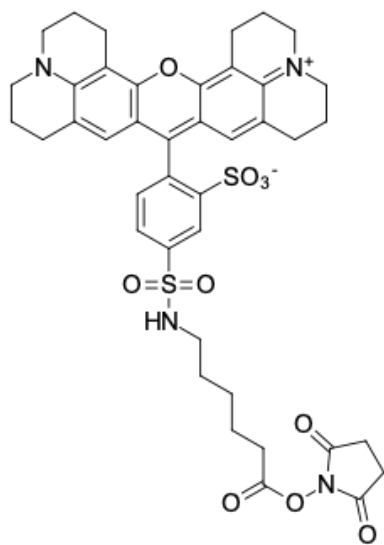


## TR-X-NHS ester, 5-isomer

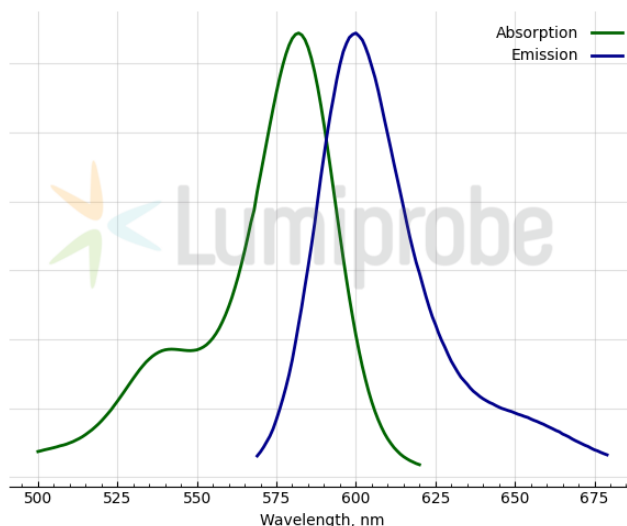
<http://www.lumiprobe.com/p/tr-x-nhs-ester-5>

TR is a sulfonated analog of ROX dye with similar spectral properties and emission in the red region of the spectrum. This derivative is a dye with an aminohexanoic acid linker that provides spacing between the fluorophore and the biomolecule to prevent undesired interactions.

NHS ester is reactive towards amine groups that are ubiquitous in proteins, peptides and other labeling targets.



**Structure of TR-X-NHS ester, 5-isomer**



**Absorption and emission spectra of TR**

### General properties

Appearance:	dark colored solid
Molecular weight:	816.95
CAS number:	178623-11-5
Molecular formula:	C <sub>41</sub> H <sub>44</sub> N <sub>4</sub> O <sub>10</sub> S <sub>2</sub>
Solubility:	good in polar organic solvents
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:	582
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	98000
Emission maximum, nm:	600
Fluorescence quantum yield:	0.79