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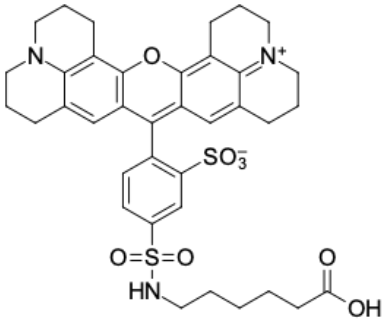
TR-X-carboxylic acid, 5-isomer

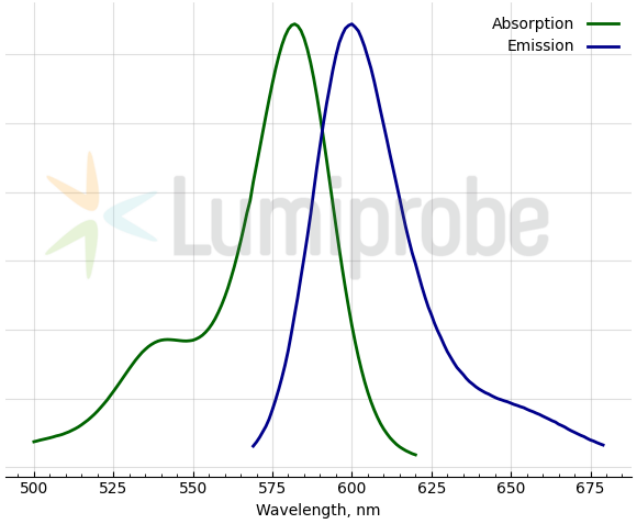
http://www.lumiprobe.com/p/tr-x-carboxylic-acid

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.

TR carboxylic acid is a non-reactive form of TR dye that can be used as a reference standard in experiments involving TR dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines after activation by carbodiimides such as EDAC.



Structure of TR-X-carboxylic acid, 5-isomer



Absorption and emission spectra of TR

General properties

Appearance:	dark crystals
Molecular weight:	719.88
CAS number:	199745-67-0
Molecular formula:	$C_{37}H_{41}N_3O_8S_2$
Solubility:	good in polar organic solvents
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

Spectral properties

Excitation/absorption maximum, nm:	582
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	98000
Emission maximum, nm:	600
Fluorescence quantum yield:	0.79