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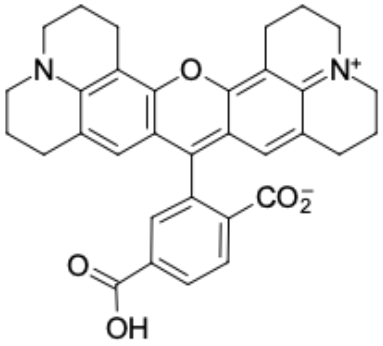
ROX carboxylic acid, 6-isomer

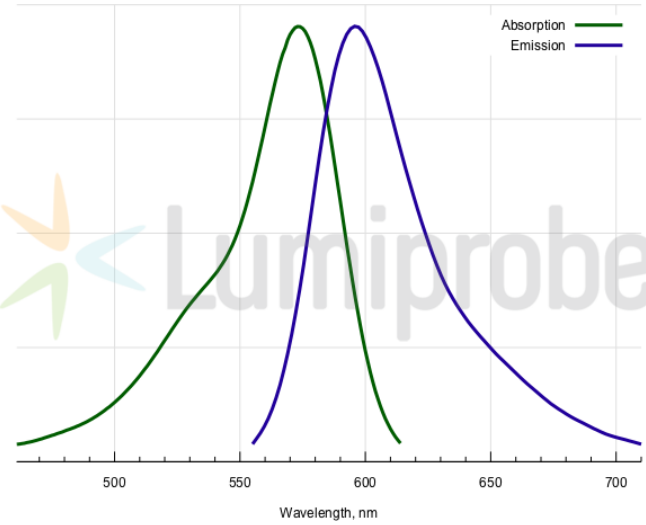
http://www.lumiprobe.com/p/rox-carboxylic-acid-6

ROX (Rhodamine X, Rhodamine 101) is a red-emitting fluorophore possessing high brightness and fluorescence quantum yield. This reagent is a pure 6-isomer.

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



Structure of ROX carboxylic acid, 6-isomer



Absorption and emission spectra of ROX

General properties

Appearance:	dark crystals
Molecular weight:	534.61
Molecular formula:	$C_{33}H_{30}N_2O_5$
Solubility:	good in DMSO, DMF, methanol, ethanol
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. Avoid prolonged exposure to light.
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:	570
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	93000
Emission maximum, nm:	591
Fluorescence quantum yield:	1.0
CF_{260}:	0.62
CF_{280}:	0.49