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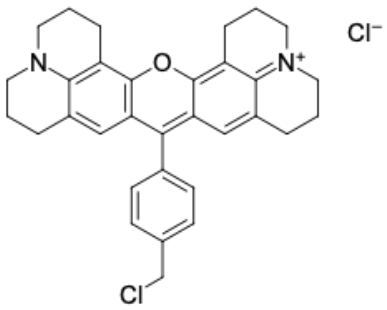
LumiTracker® Mito Red CMXRos

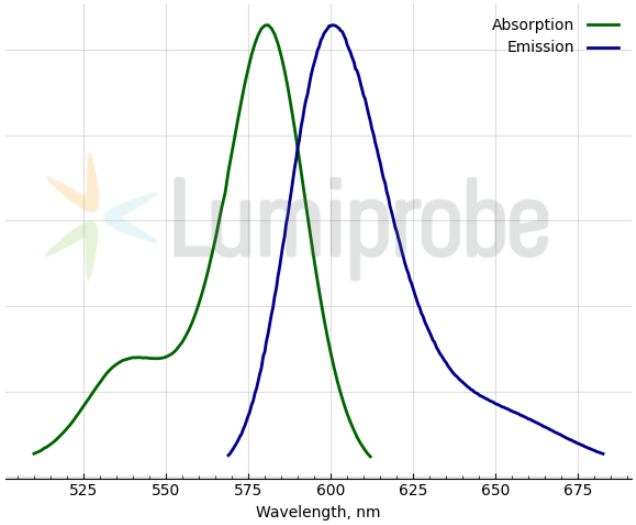
http://www.lumiprobe.com/p/mitotracker-red-cmxros

LumiTracker Mito Red CMXRos is a cationic, red-fluorescent dye for staining active mitochondria in live cells. CMXRos is a hydrophobic compound that passively diffuses across the plasma membrane and selectively accumulates in active mitochondria based on their membrane potential. LumiTracker Mito Red CMXRos is compatible with aldehyde fixation. This dye is useful to indicate cell health as well as for mitochondria localization.

Ros in the name of this product stands for rosamine and has nothing to do with the detection of reactive oxygen species (ROS).



Structure of Tracker Mito Red



Absorption and emission spectra of Mito Red CMXRos

General properties

Appearance:	dark green crystals
Molecular weight:	531.53
CAS number:	167095-09-2
Molecular formula:	$C_{32}H_{32}Cl_2N_2O$
Solubility:	DCM, DMF, methanol
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:	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:	581
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	101000
Emission maximum, nm:	600
Fluorescence quantum yield:	0.91