

## **Lumiprobe Corporation**

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

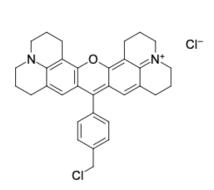
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

## LumiTracker® Mito Red CMXRos

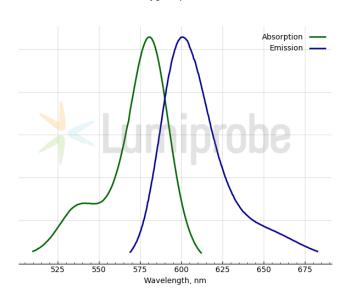
http://www.lumiprobe.com/p/mitotracker-red-cmxros

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 <sup>1</sup>H 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  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 101000 Emission maximum, nm: 600 Fluorescence quantum yield: 0.91