



MT-1522

Mitotracker Red CMXRos

Cat.n.	Description	Size
MT-1522-5	Mitotracker Red CMXRos	5 x 50 ug
MT-1522-10		10 x 50 ug
MT-1522-20		20 x 50 ug

Description:

Mitotracker 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. Mitotracker 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).

Appearance: dark green crystals

Molecular weight: 531.53

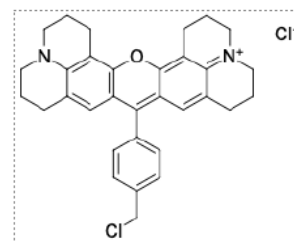
CAS number: 167095-09-2

Molecular formula: C₃₂H₃₂Cl₂N₂O

Solubility: DCM, DMF, methanol

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark.
Transportation: at room temperature for up to 3
Desiccate.



Structure of Tracker Mito Red

weeks.

Spectral properties

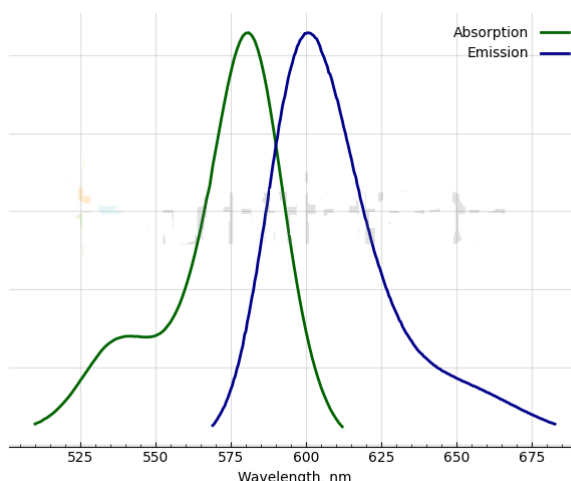
Excitation/absorption maximum, nm: 581

ε, L·mol⁻¹·cm⁻¹: 101000

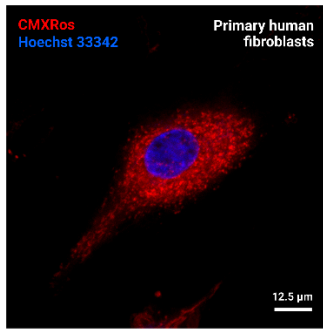
Emission maximum, nm: 600

Fluorescence quantum yield: 0.91

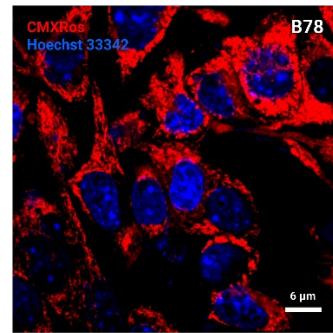
Absorption and emission spectra of Mitotracker Red CMXRos



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Vital staining of mitochondria in primary human fibroblasts with Mitotracker Red CMXRos



Vital staining of mitochondria of B78 melanoma cells with Mitotracker Red CMXRos