

Product Name: MitoMark Red I

Catalog No.: 6445

Batch No.: 3

CAS Number: 167095-09-2

IUPAC Name: 9-[4-(Chloromethyl)phenyl]-2,3,6,7,12,13,16,17-octahydro-1*H*,5*H*,11*H*,15*H*-xantheno[2,3,4-*ij*:5,6,7-*ij'*]diquinolizin-18-ium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

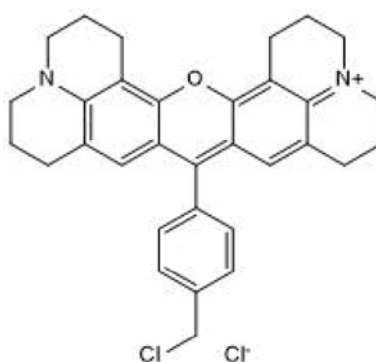
Batch Molecular Formula: C₃₂H₃₂Cl₂N₂O

Batch Molecular Weight: 531.52

Physical Appearance:

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

UV Spectrum: Consistent with structure

λ_{max}: 578 nm (MeOH)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

MitoMark Red I is a red fluorescent mitochondrial stain. Fluorescence intensity is dependent on mitochondrial membrane potential. Excitation/emission maxima $\lambda \sim 578/599$ nm. It is recommended to prepare stock solutions in DMSO.

Physical and Chemical Properties:

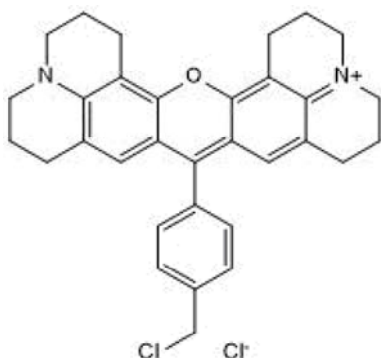
Batch Molecular Formula: C₃₂H₃₂Cl₂N₂O

Batch Molecular Weight: 531.52

Physical Appearance:

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Buckman *et al* (2001) MitoTracker labeling in primary neuronal and astrocytic cultures: influence of mitochondrial membrane potential and oxidants. *J.Neuroscience Methods*. **104** 165. PMID: 11164242.

Poot *et al* (1996) Analysis of mitochondrial morphology and function with novel fixable fluorescent stains. *J.Histochem.Cytochem.* **44** 1363. PMID: 8985128.

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