

Product Name: MitoMark Green I

Catalog No.: 6444

Batch No.: 4

CAS Number: 201860-17-5

IUPAC Name: 2-[3-[5,6-Dichloro-1,3-bis[[4-(chloromethyl)phenyl]methyl]-1,3-dihydro-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-3-methylbenzoxazolium chloride

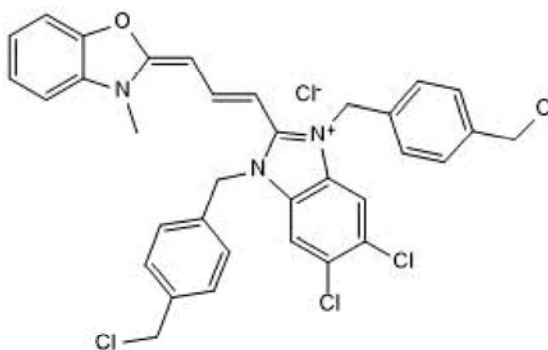
1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₂₈Cl₅N₃O

Batch Molecular Weight: 671.87

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 87.0% purity at 490 nm

λ_{max}: 490 nm (MeOH)

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

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Description:

MitoMark Green I is a green fluorescent mitochondrial stain. Localizes to mitochondria regardless of mitochondrial membrane potential. Excitation/emission maxima $\lambda \sim 490/516$ nm. It is recommended to prepare stock solutions in DMSO.

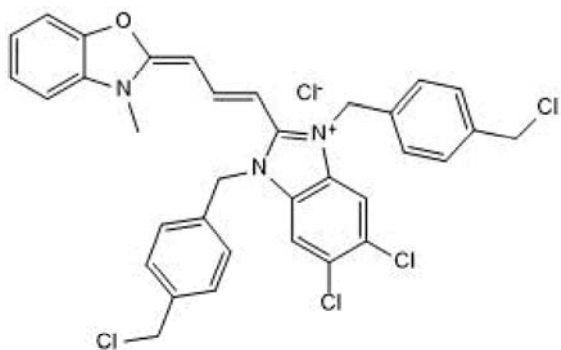
Physical and Chemical Properties:

Batch Molecular Formula: C₃₄H₂₈Cl₅N₃O

Batch Molecular Weight: 671.87

Minimum Purity: ≥85%

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:

Garner et al (1997) Fluorometric assessments of mitochondrial function and viability in cryopreserved bovine spermatozoa. *Biol.Reprod.* **57** 1401. PMID: 9408246.

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