

Product Name: MK 571

Catalog No.: 2338

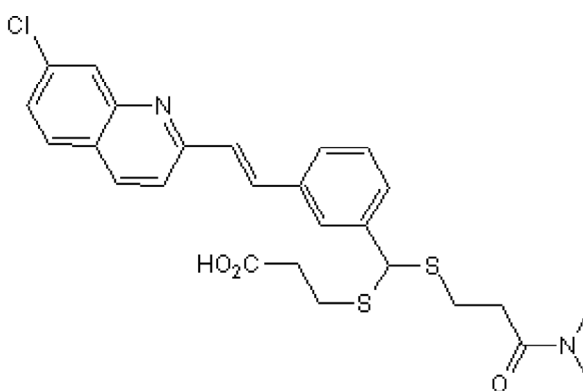
Batch No.: 3

CAS Number: 115104-28-4

IUPAC Name: 3-[[[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]][[3-(dimethylamino)-3-oxopropyl]thio]methyl]thio]propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇ClN₂O₃S₂
Batch Molecular Weight: 515.09
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Chloroform:Methanol [9:1])
HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	60.63	5.28	5.44
Found	60.63	5.32	5.51

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

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Description:

MK 571 is a potent CysLT₁ (LTD₄) leukotriene receptor inverse agonist (EC₅₀ = 1.3 nM). Antagonizes LTD₄-induced contractions of guinea pig trachea and ileum (pA₂ values are 9.4 and 10.5 respectively). Also inhibitor of multidrug resistance protein-1 (MRP1) mediated transport; in vitro augments the effects of cytotoxic agents on malignant cells.

Physical and Chemical Properties:

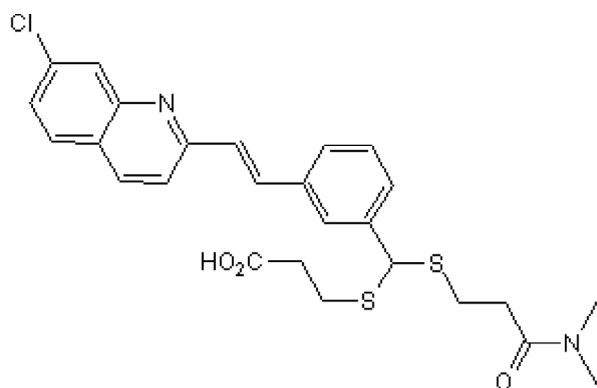
Batch Molecular Formula: C₂₆H₂₇ClN₂O₃S₂

Batch Molecular Weight: 515.09

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Dupre et al (2004) Inverse agonist activity of selected ligands of the cysteinyl-leukotriene receptor 1. *J.Pharmacol.Exp.Ther.* **309** 102. PMID: 14718577.

Blain and Sirois (2000) Involvement of LTD₄ in allergic pulmonary inflammation in mice: modulation by cysLT₁ antagonist MK-571. *Prost.Leuko.Essent.Fatty Acids* **62** 361.

Vellenga et al (1999) Interleukin-6 production by activated human monocytic cells is enhanced by MK-571, a specific inhibitor of the multi-drug resistance protein-1. *Br.J.Pharmacol.* **127** 441. PMID: 10385244.

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