Product Name: MK 571
Catalog No.: 2338 Batch No.: 1
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: Yellow solid
   Solubility: DMSO to 100 mM
   Storage: Store at -20°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: \( R_f = 0.37 \) (Chloroform:Methanol [9:1])
   HPLC: Shows >96.9% purity
   \(^1\text{H}\) NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
      |   | Theoretical | Found |
      |   | Carbon | Hydrogen | Nitrogen |
      |   | 60.63% | 5.28% | 5.44% |
      |   | 60.93% | 5.44% | 5.26% |
**Product Information**

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**Description:**
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:** Yellow solid

**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. 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:**