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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C_{26}H_{27}ClN_{2}O_{3}S_{2}</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>515.09</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Off White solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 100 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20°C</td>
</tr>
<tr>
<td>Batch Molecular Structure</td>
<td><img src="image" alt="Molecular Structure" /></td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

- **TLC:** R_f = 0.36 (Chloroform:Methanol [9:1])
- **HPLC:** Shows 98.4% purity
- **^1H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:** 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
Product Information

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: C26H17ClN3O3S2
Batch Molecular Weight: 515.09
Physical Appearance: Off White 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: