Product Name: Sulopenem
Catalog No.: 6337  Batch No.: 1
CAS Number: 120788-07-0
IUPAC Name: (5R,6S)-6-[(1R)-1-Hydroxyethyl]-7-oxo-3-[[1R,3S]-tetrahydro-1-oxido-3-thienyl][thio]-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{12}H_{15}NO_{5}S_{3}.\frac{1}{2}H_{2}O
   Batch Molecular Weight: 358.46
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM
               1.1eq. NaOH to 100 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.9% purity
   \textsuperscript{1}H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

      | Element | Theoretical | Found |
      |---------|-------------|-------|
      | Carbon  | 40.21       | 39.98 |
      | Hydrogen| 4.5         | 4.18  |
      | Nitrogen| 3.91        | 3.77  |

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

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C\(_{17}\)H\(_{16}\)NO\(_5\)S\(_3\); ½H\(_2\)O
- **Batch Molecular Weight:** 358.46
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Solubility & Usage Info:**

- **DMSO** to 100 mM
- **1.1eq. NaOH** to 100 mM

**Storage:** Store at +4°C

**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.

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