1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{13}H_{13}N_{3}OS \)

Batch Molecular Weight: 259.33

Physical Appearance: Yellow solid

Solubility: DMSO to 30 mM ethanol to 15 mM with gentle warming

Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>60.21</td>
<td>60.39</td>
</tr>
<tr>
<td>H</td>
<td>5.05</td>
<td>5.07</td>
</tr>
<tr>
<td>N</td>
<td>16.2</td>
<td>16.21</td>
</tr>
</tbody>
</table>

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

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Product Name: Necrostatin-1
Catalog No.: 2324
Batch No.: 2

CAS Number: 4311-88-0
IUPAC Name: 5-(1H-Indol-3-ylmethyl)-3-methyl-2-thioxo-4-imidazolidinone

Description:
ATP-competitive, allosteric inhibitor of receptor-interacting protein kinase 1 (RIPK1) (EC₅₀ = 182 nM). Blocks non-apoptotic cell death via inhibition of a specific cellular pathway, necroptosis, which leads to necrosis (EC₅₀ = 494 nM). Reduces ischemic brain injury in a mouse model of stroke.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₃H₁₃N₂O₃S
Batch Molecular Weight: 259.33
Physical Appearance: Yellow solid
Minimum Purity: ≥99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 30 mM
ethanol to 15 mM with gentle warming

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: