Product Name: Burimamide oxalate
CAS Number: 163932-06-7
IUPAC Name: N-[4-(1H-Imidazol-4-yl)butyl]-N'-methylthiourea oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_{16}N_4S.C_2H_2O_4.\frac{1}{2}H_2O$
Batch Molecular Weight: 311.36
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

$^1H$ NMR: Consistent with structure
$^{13}C$ 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>Carbon</td>
<td>42.43</td>
<td>42.58</td>
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<tr>
<td>Hydrogen</td>
<td>6.15</td>
<td>6.19</td>
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<tr>
<td>Nitrogen</td>
<td>17.99</td>
<td>17.9</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Histamine H₂/H₃ receptor antagonist (Kᵢ values are 0.07, 7.8 and 290 μM for H₂, H₃ and H₁ receptors respectively). Displays partial agonist activity in SK-N-MC cells. Produces antinociceptive effects following intraventricular administration (ED₅₀ = 183 nmol/mouse in hot-plate test).

Physical and Chemical Properties:
Batch Molecular Formula: C₇₀H₆₉N₄S.C₂H₂O₄.½H₂O
Batch Molecular Weight: 311.36
Physical Appearance: White solid

Storage: Desiccate at +4°C

Solubility & Usage Info:
- Water to 100 mM
- 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: