

Certificate of Analysis

Product Name: Burimamide oxalate

Catalog No.: 1857

Batch No.: 1

CAS Number: 163932-06-7

IUPAC Name: *N*-[4-(1*H*-Imidazol-4-yl)butyl]-*N*-methylthiourea oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₆N₄S.C₂H₂O₄.½H₂O

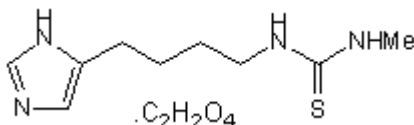
Batch Molecular Weight: 311.36

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

¹³C NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.43	6.15	17.99
Found	42.58	6.19	17.9

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

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Description:

Histamine H₃/H₂ receptor antagonist (K_i values are 0.07, 7.8 and 290 μM for H₃, H₂ 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).

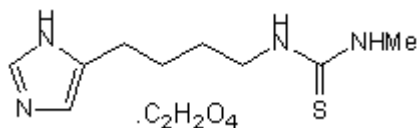
Physical and Chemical Properties:

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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:

Lamberti et al (1996) Investigation into the role of histamine receptors in rodent antinociception. *Pharmacol.Biochem.Behav.* **53** 567. PMID: 8866956.

Hough et al (2000) Antinociceptive activity of derivatives of improgran and burimamide. *Pharmacol.Biochem.Behav.* **65** 61. PMID: 10638637.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956