

Certificate of Analysis

www.tocris.com

Product Name: Methimepip dihydrobromide

Catalog No.: 2947

Batch No.: 1

CAS Number: 817636-54-7

IUPAC Name: 4-(1*H*-Imidazol-4-ylmethyl)-1-methylpiperidine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₇N₃·2HBr

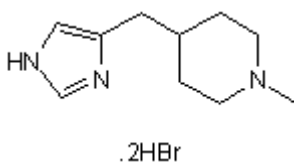
Batch Molecular Weight: 341.09

Physical Appearance: Light brown solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

Product Name: Methimepip dihydrobromide

Catalog No.: 2947

Batch No.: 1

CAS Number: 817636-54-7

IUPAC Name: 4-(1*H*-Imidazol-4-ylmethyl)-1-methylpiperidine dihydrobromide

Description:

Extremely selective histamine H₃ receptor agonist (pK_i values are 9.0, 5.7, < 5.0 and < 5.0 for hH₃, hH₄, hH₁ and hH₂ receptors respectively). Potently inhibits EFS-evoked contractions of guinea pig ileum (pD₂ = 8.26).

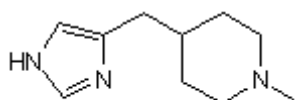
Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₁₇N₃.2HBr

Batch Molecular Weight: 341.09

Physical Appearance: Light brown solid

Batch Molecular Structure:



.2HBr

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival.

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:

Kitbunnadaj et al (2005) *N*-substituted piperidinyl alkyl imidazoles: discovery of methimepip as a potent and selective histamine H₃ receptor agonist. *J.Med.Chem.* **48** 2100. PMID: 15771452.

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

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