

Certificate of Analysis

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Product Name: ImmePIP dihydrobromide

Catalog No.: 0932

Batch No.: 4

CAS Number: 164391-47-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₅N₃.2HBr

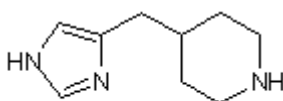
Batch Molecular Weight: 327.06

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



.2HBr

2. ANALYTICAL DATA

TLC: R_f = 0.1 (Dichloromethane:Methanol:Ammonia soln. [8:2:0.1])

Melting Point: Between 237 - 240°C

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	33.05	5.24	12.85
Found	32.75	5.15	12.55

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

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Description:

Potent histamine H₃ receptor agonist. Also binds to H₄ receptors (K_i values are 0.4 and 9 nM at human recombinant H₃ and H₄ receptors respectively). Equipotent to or slightly more active than (R)-α-methylhistamine at H₃ receptors.

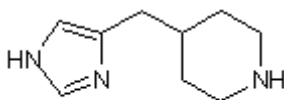
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Physical Appearance: White solid

Batch Molecular Structure:



.2HBr

Storage: Desiccate at RT

Solubility & Usage Info:

water 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:

Vollinga et al (1994) A new potent and selective histamine H₃ receptor agonist. *J.Med.Chem.* **37** 332. PMID: 8308858.

Coruzzi et al (1995) Cardiovascular effects of selective agonists and antagonists of histamine H₃ receptors in the anaesthetized rat. *Naunyn Schmiedebergs Arch.Pharmacol.* **351** 569. PMID: 7675114.

Liu et al (2001) Cloning and pharmacological characterization of a fourth histamine receptor (H₄) expressed in bone marrow. *Mol. Pharmacol.* **59** 420. PMID: 11179434.

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