

Certificate of Analysis

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Product Name: Immethridine dihydrobromide

Catalog No.: 2315

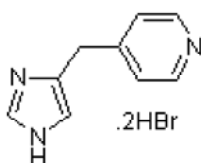
Batch No.: 3

CAS Number: 699020-93-4

IUPAC Name: 4-(1*H*-imidazol-4-ylmethyl)pyridine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₉N₃.2HBr
Batch Molecular Weight: 321.01
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	33.67	3.45	13.08
Found	33.43	3.48	12.72

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

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Catalog No.: 2315

Batch No.: 3

CAS Number: 699020-93-4

IUPAC Name: 4-(1*H*-imidazol-4-ylmethyl)pyridine dihydrobromide

Description:

Potent and highly selective histamine H₃ receptor agonist (pEC₅₀ = 9.74) that displays 300-fold selectivity over the H₄ receptor (pK_i values are 9.07 and 6.61 respectively). Does not bind to H₁ or H₂ receptors at concentrations up to 10 μM. .

Physical and Chemical Properties:

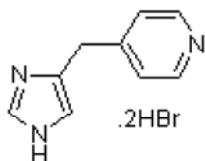
Batch Molecular Formula: C₉H₉N₃.2HBr

Batch Molecular Weight: 321.01

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



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:

Kitbunnadaj et al (2004) Identification of 4-(1*H*-imidazol-4(5)-ylmethyl)pyridine (immethridine) as a novel, potent, and highly selective histamine H₃ receptor agonist. *J.Med.Chem.* **47** 2414. PMID: 15115383.

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