

Certificate of Analysis

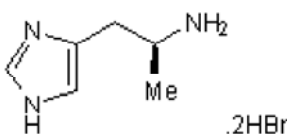
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Product Name: (S)-(+)- α -Methylhistamine dihydrobromide
IUPAC Name: (S)-(+)- α -Methyl-1*H*-imidazole-4-ethanamine dihydrobromide

Catalog No.: 0572 **Batch No.:** 3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₁₁N₃.2HBr
Batch Molecular Weight: 287
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol:Ammonia soln. [8:2:0:2])
Melting Point: At 181°C
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +3 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	25.11	4.57	14.64
Found	25.33	4.62	14.58

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

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Description:

Less active enantiomer of H₃ agonist R-(-)- α -methylhistamine; 120-fold less potent than R-(-) at H₃. R-enantiomer also available.

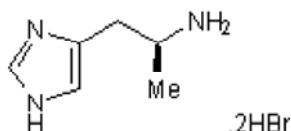
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Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

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:

Hill (1990) Distribution, properties and functional characteristics of three classes of histamine receptor. *Pharmacol.Rev.* **42** 45. PMID: 2164693.

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