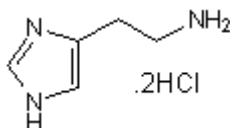


Product Name: Histamine dihydrochloride
CAS Number: 56-92-8
IUPAC Name: 2-(4-Imidazolyl)ethylamine dihydrochloride

Catalog No.: 3545 **Batch No.:** 1
EC Number: 200-298-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₉N₃.2HCl
Batch Molecular Weight: 184.07
Physical Appearance: white solid
Solubility: water to 100 mM
 DMSO 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

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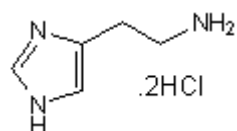
Description:

Endogenous agonist at histamine receptors (H₁₋₄). Released from mast cells and basophils and exhibits inflammatory, vasodilatory and bronchoconstrictory activity. Stimulates gastric acid secretion and acts as a neurotransmitter in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₅H₉N₃.2HCl
 Batch Molecular Weight: 184.07
 Physical Appearance: white solid

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Hill et al (1997) International union of pharmacology. XIII. Classification of histamine receptors. *Pharmacol.Rev.* **49** 253. PMID: 9311023.

Maintz and Novak (2007) Histamine and histamine intolerance. *Am.J.Clin.Nutr.* **85** 1185. PMID: 17490952.

Thurmond et al (2008) The role of histamine H₁ and H₄ receptors in allergic inflammation: the search for new antihistamines. *Nat.Rev.Drug Discov.* **7** 41. PMID: 18172439.

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