TOCRIS
a bio-techne brand

Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: N^{α}-Methylhistamine dihydrochloride **Catalog No.: 0573** **Batch No.: 2**

CAS Number: 16503-22-3

IUPAC Name: *N*-Methyl-1*H*-imidazole-4-ethanamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{11}N_3.2HCl.¼H_2O$

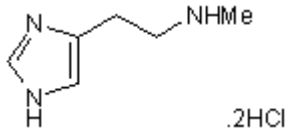
Batch Molecular Weight: 202.59

Physical Appearance: White solid

Solubility: water to 100 mM
phosphate buffered saline to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (Dichloromethane:Methanol:Ammonia soln. [8:2:0.2])

Melting Point: At 181°C

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.57	6.72	20.74
Found	35.57	6.57	20.5

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

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Description:

Potent histamine agonist, particularly at H_3 receptors (potency relative to histamine is 81, 185, and 270% at H_1, H_2 and H_3 respectively). Also displays agonist properties at H_4 receptors to which it binds with moderate affinity (K_i = 23 nM).

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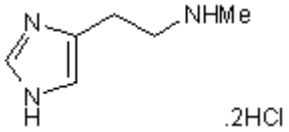

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
phosphate buffered saline 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* (1990) Distribution, properties, and functional characteristics of three classes of histamine receptor. Pharmacol.Rev. ***42*** 45. PMID: 2164693.

Schwartz *et al* (1990) A third histamine receptor subtype - characterization, localization and functions of the H_3-receptor. Agents Actions ***30*** 13. PMID: 1695431.

Zweig *et al* (1992) Characterization of digitonin-solubilized bovine brain H_3 histamine receptor coupled to a guanine nucleotide-binding protein. J.Neurochem. ***59*** 1661. PMID: 1328529.