



Certificate of Analysis

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Product Name: VUF 5681 dihydrobromide Catalog No.: 2493 Batch No.: 1

CAS Number: 639089-06-8

IUPAC Name: 4-[3-(1*H*-Imidazol-4-yl)propyl]piperidine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{19}N_3.2HBr.\frac{1}{2}H_2O$

Batch Molecular Weight: 364.12 **Physical Appearance:** White solid

Solubility: water to 100 mM

DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

HN N NH

.2HBr

2. ANALYTICAL DATA

HPLC: Shows >99% purity

¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 36.28 6.09 11.54 Found 36.17 5.84 11.14

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Product Information

Print Date: Jan 23rd 2019

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CAS Number: 639089-06-8

IUPAC Name: 4-[3-(1*H*-Imidazol-4-yl)propyl]piperidine dihydrobromide

Description:

Potent histamine H_3 receptor silent antagonist (pK_i = 8.35).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₉N₃.2HBr.½H₂O

Batch Molecular Weight: 364.12 Physical Appearance: White solid

Minimum Purity: >98%

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).

Catalog No.: 2493

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:

Moreno-Delgado *et al* (2006) Constitutive activity of H₃ autoreceptors modulates histamine synthesis in rat brain through the cAMP/PKA pathway. Neuropharmacology *51* 517. PMID: 16769092.

Leurs *et al* (2005) The histamine H3 receptor: from gene cloning to H_3 receptor drugs. Nat.Rev.Drug Discov. **4** 107. PMID: 15665857. **Kitbunnadaj** *et al* (2004) Identification of 4-(1*H*-imidazol-4(5)-ylmethyl)pyridine (immethridine) as a novel, potent, and highly selective histamine H_3 receptor agonist. J.Med.Chem. **47** 2414. PMID: 15115383.