

Product Name: Clobenpropit dihydrobromide

Catalog No.: 0752

Batch No.: 3

CAS Number: 145231-35-2

IUPAC Name: *N*-(4-Chlorobenzyl)-*S*-[3-(4(5)-imidazolyl)propyl]isothiourea dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₇ClN₄S.2HBr

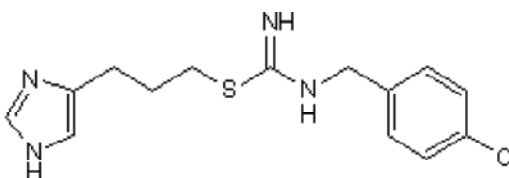
Batch Molecular Weight: 470.65

Physical Appearance: White solid

Solubility: ethanol to 5 mM
water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



.2HBr

2. ANALYTICAL DATA

TLC: R_f = 0.6 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Melting Point: Between 216 - 217°C

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.73	4.07	11.9
Found	35.65	4.09	11.73

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

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Description:

An extremely potent histamine H₃ antagonist/inverse agonist (pA₂=9.93). Also displays partial agonist activity at H₄ receptors; induces eosinophil shape change with an EC₅₀ of 3 nM.

Physical and Chemical Properties:

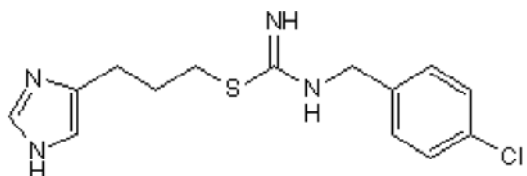
Batch Molecular Formula: C₁₄H₁₇ClN₄S.2HBr

Batch Molecular Weight: 470.65

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



.2HBr

Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM

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.

Licensing Information:

Sold with the permission of SCI, Amsterdam

References:

Buckland *et al* (2003) Histamine induces cytoskeletal changes in human eosinophils via the H₄ receptor. *Br.J.Pharmacol.* **140** 1117. PMID: 14530216.

Liu *et al* (2001) Cloning and pharmacological characterization of a fourth histamine receptor (H₄) expressed in bone marrow. *Mol. Pharmacol.* **59** 420. PMID: 11179434.

Yokoyama *et al* (1994) Clobenpropit (VUF-9153), a new histamine H₃ receptor antagonist, inhibits electrically induced convulsions in mice. *Eur.J.Pharmacol.* **260** 23. PMID: 7957622.

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