

Certificate of Analysis

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Product Name: Iodophenpropit dihydrobromide

Catalog No.: 0779

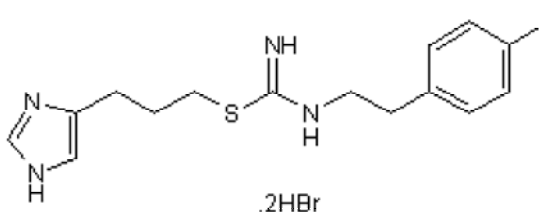
Batch No.: 2

CAS Number: 145196-87-8

IUPAC Name: *N*-[2-(4-Iodophenyl)ethyl]-*S*-[3-(4(5)-imidazolyl)propyl]isothiourea dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₉IN₄S.2HBr.H₂O
Batch Molecular Weight: 594.15
Physical Appearance: White solid
Solubility: water to 25 mM
 phosphate buffered saline to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol:Ammonia soln. [7:3:0.1])
Melting Point: Between 198 - 199°C
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	30.32	3.9	9.43
Found	30.15	3.88	9.57

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

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Product Name: Iodophenpropit dihydrobromide

Catalog No.: 0779

Batch No.: 2

CAS Number: 145196-87-8

IUPAC Name: N-[2-(4-Iodophenyl)ethyl]-S-[3-(4(5)-imidazolyl)propyl]isothiourea dihydrobromide

Description:

Selective H₃ antagonist with high affinity (K_D = 0.3 nM).

Physical and Chemical Properties:

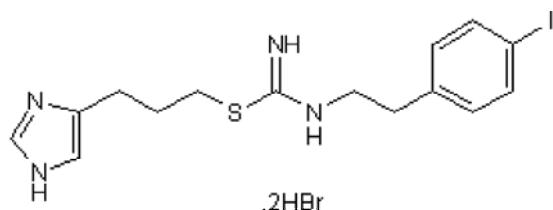
Batch Molecular Formula: C₁₅H₁₉IN₄S.2HBr.H₂O

Batch Molecular Weight: 594.15

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 25 mM

phosphate buffered saline to 10 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:

Shahid et al (2009) Histamine, histamine receptors, and their role in immunomodulation: An updated systematic review. *Open Immunol.J.* **2** 9.

Jansen et al (1994) Characterisation of the binding of the first selective radiolabelled histamine H₃ receptor antagonist, [¹²⁵I]-iodophenpropit, to rat brain. *Br.J.Pharmacol.* **113** 355. PMID: 7834183.

Jansen et al (1992) The first radiolabelled histamine H₃ receptor antagonist, [¹²⁵I]iodophenpropit: saturable and reversible binding to rat cortex membranes. *Eur.J.Pharmacol.* **217** 203. PMID: 1330590.

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