1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{14}\text{H}_{17}\text{ClN}_{4}\text{S}.2\text{HBr} \)
- **Batch Molecular Weight:** 470.65
- **Physical Appearance:** White solid
- **Solubility:**
  - Ethanol to 5 mM
  - Water to 100 mM
- **Storage:** Store at RT

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
- **\(^1\text{H NMR}:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - 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
Product Information

Product Name: Clobenpropit dihydrobromide
CAS Number: 145231-35-2
IUPAC Name: N-(4-Chlorobenzyl)-S-[3-(4(5)-imidazolyl)propyl]isothiourea dihydrobromide

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:

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:
