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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{14}H_{17}ClN_{4}S.2HBr
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: 
\text{R_f} = 0.6 \text{ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])}
Melting Point: Between 216 - 217°C
HPLC: Shows 99.2% purity
\textsuperscript{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

\begin{verbatim}
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>35.73</td>
<td>35.65</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.07</td>
<td>4.09</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.9</td>
<td>11.73</td>
</tr>
</tbody>
</table>
\end{verbatim}
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**Description:**
An extremely potent histamine H₃ antagonist/inverse agonist ($pA_2=9.93$). Also displays partial agonist activity at H₄ receptors; induces eosinophil shape change with an EC₅₀ of 3 nM. Also available as part of the Histamine H₃ Receptor Tocriset™.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₇H₁₁ClN₅S·2HBr
- **Batch Molecular Weight:** 470.65
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**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.

**References:**

