Product Name: Mepyramine maleate
CAS Number: 59-33-6
IUPAC Name: 2-((2-(Dimethylamino)ethyl)(p-methoxybenzyl)amino)-pyridine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $\text{C}_{17}\text{H}_{23}\text{N}_{3}\text{O}_{1}\cdot\text{C}_{4}\text{H}_{4}\text{O}_{4}$
   Batch Molecular Weight: 401.46
   Physical Appearance: White solid
   Solubility: phosphate buffered saline to 100 mM
              water to 100 mM
              DMSO to 100 mM
   Storage: Store at RT
   Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

   TLC: $R_f = 0.67$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
   Melting Point: At 104°C
   $^1$H NMR: Consistent with structure
   Microanalysis:

<table>
<thead>
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<th>Element</th>
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<th>Found</th>
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<tr>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Selective inverse agonist for the H₁ receptor. Inhibits histamine induced inositol phosphate (InsP) production (log EC₅₀ = -7.94) and intracellular calcium mobilization. Sequesters Gₛ₁₁ protein, reducing its availability for other receptors associated with the same signaling pathway.

Physical and Chemical Properties:
Batch Molecular Formula: C_{17}H_{22}N_{3}O_{6}.C_{4}H_{4}O_{4}
Batch Molecular Weight: 401.46
Physical Appearance: White solid

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
- phosphate buffered saline to 100 mM
- 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).
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: