

**Product Name:** Mepyramine maleate

**Catalog No.:** 0660

**Batch No.:** 2

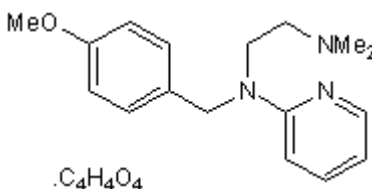
CAS Number: 59-33-6

EC Number: 200-422-7

IUPAC Name: 2-((2-(Dimethylamino)ethyl)(*p*-methoxybenzyl)amino)-pyridine maleate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{17}H_{23}N_3O_1 \cdot C_4H_4O_4$   
**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:**



**2. ANALYTICAL DATA**

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

	Carbon	Hydrogen	Nitrogen		
Theoretical	62.83	6.78	10.47	0	0
Found	62.94	6.8	10.56	0	0

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

**Product Name:** Mepyramine maleate

**Catalog No.:** 0660

**Batch No.:** 2

CAS Number: 59-33-6

EC Number: 200-422-7

IUPAC Name: 2-((2-(Dimethylamino)ethyl)(*p*-methoxybenzyl)amino)-pyridine maleate

**Description:**

Selective inverse agonist for the H<sub>1</sub> receptor. Inhibits histamine induced inositol phosphate (InsP) production (log EC<sub>50</sub> = -7.94) and intracellular calcium mobilization. Sequesters G<sub>q/11</sub> protein, reducing its availability for other receptors associated with the same signaling pathway.

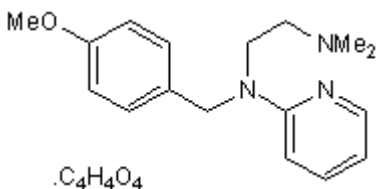
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>17</sub>H<sub>23</sub>N<sub>3</sub>O<sub>1</sub>.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

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:**

**Hill** (1990) Distribution, properties and functional characteristics of three classes of histamine receptor. *Pharmacol.Rev.* **42** 45. PMID: 2164693.

**Liu et al** (1994) Does the [<sup>3</sup>H] mepyramine binding site represent the histamine H<sub>1</sub> receptor? Re-examination of the histamine H<sub>2</sub> receptor with quinine. *J.Pharmacol.Exp.Ther.* **268** 959. PMID: 8114011.

**Carlos et al** (2004) Mepyramine, a histamine H<sub>1</sub> receptor inverse agonist, binds preferentially to a G protein-coupled form of the receptor and sequesters G protein. *J.Biol.Chem.* **279** 34431. PMID: 15192105.

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

Tocris Bioscience is an R&D Systems company

USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

[www.RnDSystems.com](http://www.RnDSystems.com)