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Certificate of Analysis

Print Date: Jan 13th 2016

www.tocris.com

Product Name: Mepyramine maleate

Catalog No.: 0660 EC Number: 200-422-7 Batch No.: 2

CAS Number: IUPAC Name: 59-33-6

2-((2-(Dimethylamino)ethyl)(p-methoxybenzyl)amino)-pyridine maleate

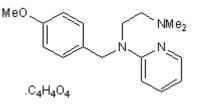
401.46

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₇H₂₃N₃O₁.C₄H₄O₄

White solid phosphate buffered saline to 100 mM water to 100 mM DMSO to 100 mM Store at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

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

Theoretical	62.83	6.78	10.47	000
Found	62.94	6.8	10.56	000

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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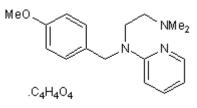
Description:

Selective inverse agonist for the H1 receptor. Inhibits histamine induced inositol phosphate (InsP) production (log $EC_{50} = -7.94$) and intracellular calcium mobilization. Sequesters G_{q/11} protein, reducing its availability for other receptors associated with the same signaling pathway.

Physical and Chemical Properties:

Batch Molecular Formula: C17H23N3O1.C4H4O4 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).

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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 [3H] mepyramine binding site represent the histamine H₁ receptor? Re-examination of the histamine H₂ receptor with quinine. J.Pharmacol.Exp.Ther. 268 959. PMID: 8114011.

Carlos et al (2004) Mepyramine, a histamine H₁ receptor inverse agonist, binds perferentially to a G protein-coupled form of the receptor and sequesters G protein. J.Biol.Chem. 279 34431. PMID: 15192105.

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