Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Mepyramine maleate

Product overview

Name	Mepyramine maleate
Cat No	HB2622
Alternative names	Pyrilamine maleate
Biological action	Agonist
Purity	>98%
Description	Selective H_1 receptor inverse agonist

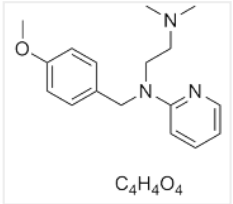
Biological Data

Biological description	Selective H_1 receptor inverse agonist. Selective for H_1 over H_2, H_3 and H_4 receptors (K_i values are 0.4 nM, 5.2, >10 and >10 µM respectively). Also a potent KCNQ/M potassium channel blocker. Shows anti-allergic and neuroexcitatory actions. Blood-brain barrier permeable.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100 mM) and in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-((2-(Dimethylamino)ethyl)(*p*-methoxybenzyl)amino)-pyridine maleate
Molecular Weight	401.46
Chemical structure	
Molecular Formula	$C_{17}H_{23}N_3O.C_4H_4O_4$
CAS Number	59-33-6
PubChem identifier	5284451
SMILES	CN(C)CCN(CC1=CC=C(C=C1)OC)C2=CC=CC=N2.C(=C\C(=O)O)\C(=O)O
InChi	InChI=1S/C17H23N3O.C4H4O4/c1-19(2)12-13-20(17-6-4-5-11-18-17)14-15-7-9-16(21-3)10-8-15;5-3(6)1-2-4(7)8/h4-11H,12-14H2,1-3H3;1-2H,(H,5,6)(H,7,8)/b;2-1-
InChiKey	JXYWFNAQESKDNC-BTJKTKAUSA-N
MDL number	MFCD00069333
Appearance	White solid

References

Histamine and its receptors.

Parsons ME *et al* (2006) Br J Pharmacol 147 Suppl 1
PubMedID 16402096

Transport mechanism of an H1-antagonist at the blood-brain barrier: transport mechanism of mepyramine using the carotid injection technique.

Yamazaki M *et al* (1994) Biol Pharm Bull 17(5)
PubMedID 7920432

Antihistamine mepyramine directly inhibits KCNQ/M channel and depolarizes rat superior cervical ganglion neurons.

Liu B *et al* (2008) Neuropharmacology 54(4)
PubMedID 18222495