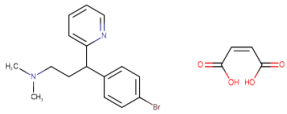
产品名称 ： Brompheniramine hydrogen maleate

同义词 ： (±)-Brompheniramine

产品货号 ： M16888



CAS Number ： 980-71-2

分子式 ： C16H19BrN2·C4H4O4

分子量 ： 435.31

化学全名 ： ——

产品描述 ： Brompheniramine maleate is a histamine H1 receptors antagonist. (In Vitro):Brompheniramine (0.1-100 μM) blocks hERG K+ channels expressed in CHO cells in a concentration-dependent manner with an IC50 of 0.90±0.14 μM, and reduced peak tail current amplitude measured at -60 mV (cells are depolarized for 2 s to +20 mV from a holding potential of -80 mV followed by a 3s repolarization back to -60 mV).Brompheniramine (1, 10 and 100 μM) significantly shortens the APD50 and depresses the plateau phase on the action potential in guinea pig papillary muscle, as well as slightly prolongs the APD90 in guinea pig papillary muscle at 10 and 100 μM.Brompheniramine (0.1-100 μM) inhibit the amplitude of the Ca2+ channel currents in rat ventricular myocytes by 14.1±1.1, 31.1±5.8, 38.0±3.8 and 90.2±3.7% at 0.1, 1, 10 and 100 μM, respectively.Brompheniramine blocks muscarinic cholinergic receptors in human chinese hamster ovary (CHO) cells.(In Vivo):Brompheniramine (0.3-3?μM; SC, single dosage) induces cutaneous analgesia in rats.

通路 ： Endocrinology/Hormones

靶点 ： 5-HT Receptor

受体 ： HT

溶解度 ： Ethanol: 18 mg/mL (41.34 mM); Water: 46 mg/mL warmed (105.67 mM); DMSO: 87 mg/mL (199.85 mM)

SMILES ： CN(C)CCC(C1=CC=C(C=C1)Br)C2=CC=CC=N2.C(=C\C(=O)O)\C(=O)O

存储条件 ： (-20℃)

稳定性 ： ≥ 2 years

参考文献 ：

1.Tardioli S, et al. J Phys Chem B. 2012 Jun 21;116(24):7033-9.