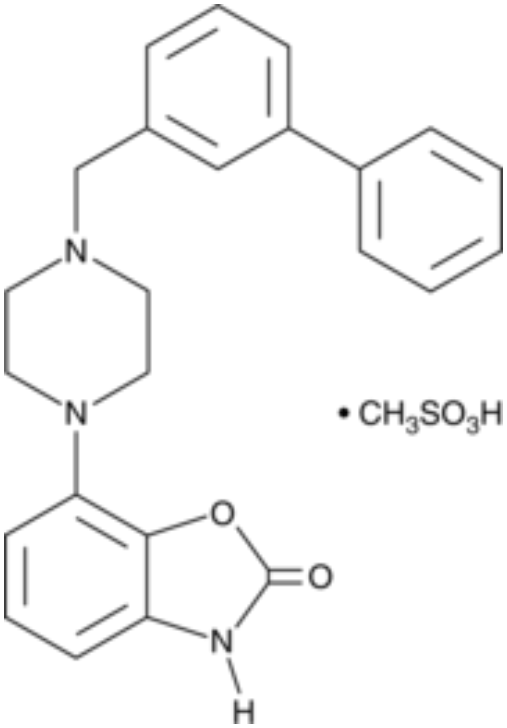
Product Data Sheet

Product Name: Bifeprunox (mesylate)
Cat. No.: GC46014

Chemical Properties

Cas. No.	350992-13-1		
SMILES	O=C1NC2=CC=CC(N3CCN(CC4=CC(C5=CC=CC=C5)=CC=C4)CC3)=C2O1.CS(=O)(O)=O		
Formula	C24H23N3O2.CH3SO3H	M.Wt	481.6
Solubility	DMSO : 8.6 mg/mL (17.86 mM; Need ultrasonic and warming)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Product Data Sheet

Bifeprunox is an atypical antipsychotic.1 It is a dopamine D2 receptor partial agonist and an agonist of the serotonin (5-HT) receptor subtype 5-HT1A (Kis = 2.2 and 9.3 nM, respectively).2,3 Bifeprunox inhibits apomorphine-induced climbing behavior in mice (ED50 = 0.1 mg/kg) and the conditioned avoidance response in rats (ED50 = 0.8 mg/kg).3 It decreases basal prepulse inhibition of the acoustic startle response in rats by 42% when administered at a dose of 10 mg/kg.2

|1. Wadenberg, M.-L.G. Bifeprunox: A novel antipsychotic agent with partial agonist properties at dopamine D2 and serotonin 5-HT1A receptors. Future Neurol. 2(2), 153-165 (2007).|2. Auclair, A.L., Galinier, A., Besnard, J., et al. Putative antipsychotics with pronounced agonism at serotonin 5-HT1A and partial agonist activity at dopamine D2 receptors disrupt basal PPI of the startle reflex in rats. Psychopharmacol. (Berl). 193(1), 45-54 (2007).|3. Feenstra, R.W., de Moes, J., Hofma, J.J., et al. New 1-aryl-4-(biarylmethylene)piperazines as potential atypical antipsychotics sharing dopamine D2-receptor and serotonin 5-HT1A-receptor affinities. Bioorg. Med. Chem. Lett. 11(17), 2345-2349 (2001).

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA