

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

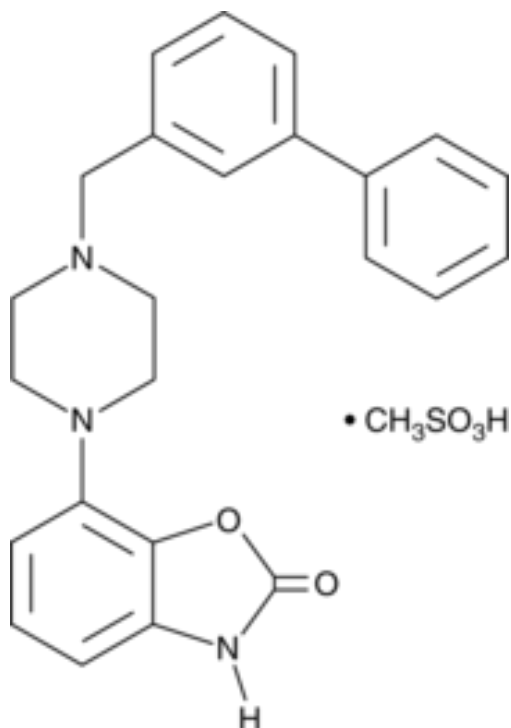
Formula C24H23N3O2.CH3SO3H M.Wt 481.6

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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 ($K_{is} = 2.2$ and 9.3 nM, respectively).^{2,3} Bifeprunox inhibits apomorphine-induced climbing behavior in mice ($ED_{50} = 0.1$ mg/kg) and the conditioned avoidance response in rats ($ED_{50} = 0.8$ 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).

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