Product Data Sheet

Product Name: Ziprasidone HCl
Cat. No.: GC11521

Chemical Properties

Cas. No.	122883-93-6		
Chemical Name	5-[2-[4-(1,2-benzothiazol-3-yl)piperazin-1-yl]ethyl]-6-chloro-1,3-dihydroindol-2-one;hydrochloride		
SMILES	C1CN(CCN1CCC2=C(C=C3C(=C2)CC(=O)N3)Cl)C4=NSC5=CC=CC=C54.Cl		
Formula	$C_{21}H_{21}ClN_4OS.HCl$	M.Wt	449.4
Solubility	≥ 22.47mg/mL in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Ziprasidone HCl		

Background

Ziprasidone Hcl(CP-88059 Hcl) is a combined 5-HT (serotonin) and dopamine receptor antagonist which exhibits potent effects of antipsychotic activity.Target: 5-HT receptor; Dopamine receptorZiprasidone (hydrochloride) is the salt form of ziprasidone, which possesses an in vitro 5-HT2A/dopamine D2 receptor affinity ratio higher than any clinically available antipsychotic agent. In vivo, ziprasidone antagonizes 5-HT2A receptor-induced head twitch with 6-fold higher potency than for blockade of d-amphetamine-induced hyperactivity, a measure of central dopamine D2 receptor antagonism. Ziprasidone also has high affinity for the 5-HT1A, 5-HT1D and 5-HT2C receptor subtypes, which may further enhance its therapeutic potential [1]. Ziprasidone sulfoxide and sulfone were the major metabolites in human serum. The affinities of the sulfoxide and sulfone metabolites for 5-HT2 and D2 receptors are low with respect to ziprasidone, and are thus unlikely to contribute to its antipsychotic effects [2]. Ziprasidone was associated with significant differential adverse effects relative to placebo in BPM, BPD, and schizophrenia with no significant difference in weight gain in

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all 3 groups. Self-reported somnolence was increased across the 3 conditions. Subjects with BPM were more vulnerable to EPS than those with BPD or schizophrenia [3].Clinical indications: Bipolar I disorder; Bipolar disorder; Mania; SchizophreniaFDA Approved Date: February 2001

References:

[1]. Seeger, T.F., et al., Ziprasidone (CP-88,059): a new antipsychotic with combined dopamine and serotonin receptor antagonist activity. J Pharmacol Exp Ther, 1995. 275(1): p. 101-13.
[2]. Prakash, C., et al., Metabolism and excretion of a new antipsychotic drug, ziprasidone, in humans. Drug Metab Dispos, 1997. 25(7): p. 863-72.
[3]. Gao, K., et al., Risk for adverse events and discontinuation due to adverse events of ziprasidone monotherapy relative to placebo in the acute treatment of bipolar depression, mania, and schizophrenia. J Clin Psychopharmacol, 2013. 33(3): p. 425-31.