

Ziprasidone (hydrochloride monohydrate)

Catalog No: tcsc1198



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

138982-67-9

Formula:

$C_{21}H_{24}Cl_2N_4O_2S$

Pathway:

GPCR/G Protein;Neuronal Signaling;Neuronal Signaling;GPCR/G Protein

Target:

Dopamine Receptor;Dopamine Receptor;5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

H₂O :

Alternative Names:

CP 88059

Observed Molecular Weight:

467.41

Product Description

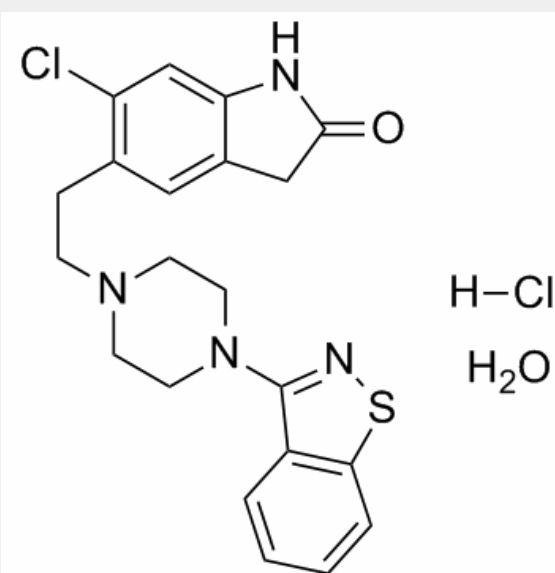
Ziprasidone(CP88059) is a combined 5-HT (serotonin) and dopamine receptor antagonist which exhibits potent effects of antipsychotic activity.

Target: 5-HT receptor; Dopamine receptor

Ziprasidone (hydrochloride) is the salt form of ziprasidone, which possesses an in vitro 5-HT_{2A}/dopamine D₂ receptor affinity ratio higher than any clinically available antipsychotic agent. In vivo, ziprasidone antagonizes 5-HT_{2A} 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-HT_{1A}, 5-HT_{1D} and 5-HT_{2C} 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 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; Schizophrenia

FDA Approved Date: February 2001



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