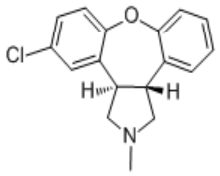
Product Data Sheet

Product Name: Asenapine

CAS No.: 65576-45-6

Cat. No.: CS-0860

Structure



MWt: 285.77

Formula: C17H16ClNO

Solubility: DMSO

Purity : >96%

Biological Activity:

Asenapine is a new atypical antipsychotic developed for the treatment of schizophrenia and acute mania associated with bipolar disorder. Asenapine shows high affinity (pKi) for numerous receptors, including the serotonin 5-HT1A (8.6), 5-HT1B (8.4), 5-HT2A (10.2), 5-HT2B (9.8), 5-HT2C (10.5), 5-HT5A (8.8), 5-HT6 (9.5), and 5-HT7 (9.9) receptors, the adrenergic α1 (8.9), α2A (8.9), α2B (9.5), and α2C (8.9) receptors, the dopamine D1 (8.9), D2 (8.9), D3 (9.4), and D4 (9.0) receptors, and the histamine H1 (9.0) and H2 (8.2) receptors. Asenapine behaves as an antagonist at all receptors.

References:

[1]. Stoner SC, Pace HA. Asenapine: a clinical review of a second-generation antipsychotic. Clin Ther. 2012 May;34(5):1023-40.
[2]. Tarazi FI, Shahid M. Asenapine maleate: a new drug for the treatment of schizophrenia and bipolar mania. Drugs Today (Barc). 2009 Dec;45(12):865-76.
[3]. Elsworth JD, Groman SM, Jentsch JD et al. Asenapine effects on cognitive and monoamine dysfunction elicited by subchronic phencyclidine administration. Neuropharmacology. 2012 Mar;62(3):1442-52.
[4]. Potkin SG. Asenapine: a clinical overview. J Clin Psychiatry. 2011;72 Suppl 1:14-8.
[5]. Shahid M, Walker GB, Zorn SH, Wong EH. Asenapine: a novel psychopharmacologic agent with a unique human receptor signature. J Psychopharmacol. 2009 Jan;23(1):65-73.
[6]. Asenapine
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Caution: Not fully tested. For research purposes only

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