



Asenapine (maleate)

Catalog No: tcsc0859

Available Sizes
Size: 10mg
Size: 50mg
Size: 100mg
Size: 200mg
Size: 500mg
Specifications
CAS No: 85650-56-2
Formula: C ₂₁ H ₂₀ CINO ₅
Pathway: Neuronal Signaling;GPCR/G Protein
Target: 5-HT Receptor;5-HT Receptor
Purity / Grade: >98%
Solubility: DMSO: 25 mg/mL (62.21 mM; Need ultrasonic); H2O: 6.25 mg/mL (15.55 mM; Need ultrasonic and warming)
Alternative Names: Org 5222 maleate





Observed Molecular Weight:

401.84

Product Description

Asenapine maleate is a **5-HT** (1A, 1B, 2A, 2B, 2C, 5A, 6, 7) and **D2** antagonist with $\mathbf{K_i}$ values of 0.03-4.0 nM, 1.3nM, respectively, and an antipsychotic.

IC50 & Target: Ki: 0.03-4.0 nM (5-HT), 1.3 nM (D2)^[1].

In Vitro: Relative to its D2 receptor affinity, as enapine has a higher affinity for 5-HT $_{2C}$, 5-HT $_{2A}$, 5-HT $_{2B}$, 5-HT $_{7}$, 5-HT $_{6}$, α_{2B} and D3 receptors, suggesting stronger engagement of these targets at therapeutic doses. As enapine behaves as a potent antagonist (pK $_{B}$) at 5-HT1A (7.4), 5-HT1B (8.1), 5-HT $_{2A}$ (9.0), 5-HT $_{2B}$ (9.3), 5-HT $_{2C}$ (9.0), 5-HT $_{6}$ (8.0), 5-HT $_{7}$ (8.5), D2 (9.1), D3 (9.1), α_{2A} (7.3), α_{2B} (8.3), α_{2C} (6.8) and H1 (8.4) receptors^[2].

In Vivo: Asenapine is an atypical antipsychotic that is currently available for the treatment of schizophrenia and bipolar I disorder. Asenapine may have superior therapeutic effect on anxiety symptoms than other agents in rats^[3]. Asenapine has anxiolytic-like effects in the EPM and the defensive marble burying tests in mice^[4].

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