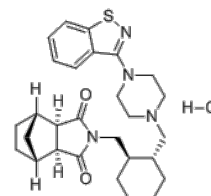


Product Name : Lurasidone hydrochloride
Cat. No. : PC-21084
CAS No. : 367514-88-3
Molecular Formula : C₂₈H₃₇ClN₄O₂S
Molecular Weight : 529.14
Target : Dopamine Receptor
Solubility : 10 mM in DMSO



Biological Activity

Lurasidone hydrochloride (SM-13496) is an atypical antipsychotic compound with potent **dopamine D2** (K_i = 1.68 nM) and **serotonin 5-HT2A** (K_i = 2.03 nM) receptor-blocking activities.

Lurasidone (SM-13496) also has high affinities for serotonin 5-HT1A (K_i = 6.75 nM), 5-HT7 receptors (K_i = 0.495 nM), and α_{2C} adrenoceptor (K_i = 10.8 nM), but only weak or negligible interactions with serotonin 5-HT2C, histamine H1, acetylcholine M1 receptors, and α₁ adrenoceptor.

Lurasidone (SM-13496) significantly and dose-dependently reversed the MK-801-induced impairment of the passive-avoidance response.

Lurasidone (SM-13496) is superior to other antipsychotics in improving the MK-801-induced memory impairment.

References

Ishiyama T, et al. *Eur J Pharmacol.* 2007 Oct 31;572(2-3):160-70.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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