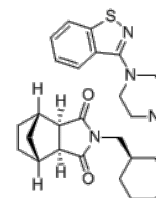


**Product Name** : Lurasidone  
**Cat. No.** : PC-21083  
**CAS No.** : 367514-87-2  
**Molecular Formula** : C<sub>28</sub>H<sub>36</sub>N<sub>4</sub>O<sub>2</sub>S  
**Molecular Weight** : 492.68  
**Target** : Dopamine Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Lurasidone (SM-13496) is an atypical antipsychotic compound with potent dopamine **D2** (K<sub>i</sub> = 1.68 nM) and serotonin **5-HT2A** (K<sub>i</sub> = 2.03 nM) receptor-blocking activities.

Lurasidone (SM-13496) also has high affinities for serotonin 5-HT1A (K<sub>i</sub> = 6.75 nM), 5-HT7 receptors (K<sub>i</sub> = 0.495 nM), and α<sub>2C</sub> adrenoceptor (K<sub>i</sub> = 10.8 nM), but only weak or negligible interactions with serotonin 5-HT2C, histamine H1, acetylcholine M1 receptors, and α<sub>1</sub> 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!**

E-mail: tech@probechem.com