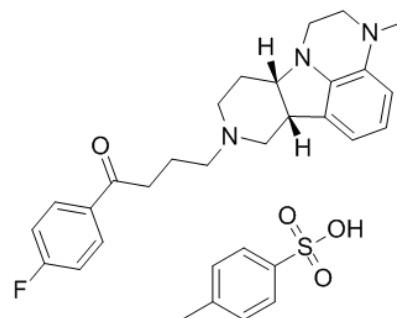


**Product Name** : Lumateperone tosylate  
**Cat. No.** : PC-45693  
**CAS No.** : 1187020-80-9  
**Molecular Formula** : C<sub>31</sub>H<sub>36</sub>FN<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 565.6987  
**Target** : 5-HT Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Lumateperone (ITI-007) is a potent 5-HT<sub>2A</sub> antagonist (K<sub>i</sub>=0.54 nM), postsynaptic D<sub>2</sub> antagonist (K<sub>i</sub>=32 nM), and SERT blocker (K<sub>i</sub>= 61 nM); also shows affinity for D<sub>1</sub>; orally bioavailable and exhibits good antipsychotic efficacy in vivo.  
Schizophrenia  
Phase 3 Clinical

## References

- Li P, et al. J Med Chem. 2014 Mar 27;57(6):2670-82.  
Snyder GL, et al. Psychopharmacology (Berl). 2015 Feb;232(3):605-21.  
Davis RE, et al. Psychopharmacology (Berl). 2015 Aug;232(15):2863-72.

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

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