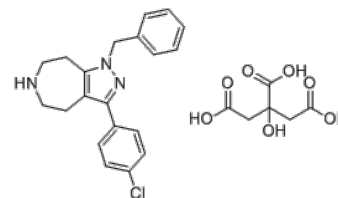


**Product Name** : JNJ-18038683  
**Cat. No.** : PC-63400  
**CAS No.** : 851376-05-1  
**Molecular Formula** : C<sub>26</sub>H<sub>28</sub>ClN<sub>3</sub>O<sub>7</sub>  
**Molecular Weight** : 529.974  
**Target** : 5-HT Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

JNJ-18038683 is a potent, selective **5-HT<sub>7</sub>** receptor antagonist with pK<sub>i</sub> of 8.19 and 8.20 for rat and human 5-HT<sub>7</sub> in cell-based assays.

JNJ-18038683 decreases 5-HT (100 nM)-stimulated adenylyl cyclase in rat and human 5-HT<sub>7</sub>/HEK293 cells with pK<sub>b</sub> of 8.01 and 7.99, respectively.

JNJ-18038683 shows 10-fold selectivity over h5-HT<sub>6</sub> receptor, 15-fold selectivity over rat adrenergic α<sub>1</sub> receptor, 14- to 25-fold selectivity over the h5-HT<sub>2</sub> receptor subtypes, and 20-fold selectivity over h5-HT<sub>1B</sub> receptor.

JNJ-18038683 prolongs rapid eye movement (REM) sleep and decreases REM duration induced by citalopram in vivo.

## References

Bonaventure P, et al. *J Pharmacol Exp Ther*. 2012 Aug;342(2):429-40.

Shelton J, et al. *Front Behav Neurosci*. 2015 Jan 15;8:453.

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

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