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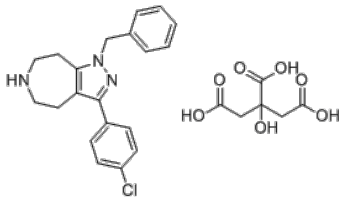
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JNJ-18038683
Cat. No.	:	PC-63400
CAS No.	:	851376-05-1
Molecular Formula	:	$C_{26}H_{28}ClN_3O_7$
Molecular Weight	:	529.974
Target	:	Histamine Receptor
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-18038683 is a potent, selective **5-HT7** receptor antagonist with pKi of 8.19 and 8.20 for rat and human 5-HT7 in cell-based assays.
JNJ-18038683 decreases 5-HT (100 nM)-stimulated adenylyl cyclase in rat and human 5-HT7/HEK293 cells with pKb of 8.01 and 7.99, respectively.
JNJ-18038683 shows 10-fold selectivity over h5-HT6 receptor, 15-fold selectivity over rat adrenergic α1 receptor, 14- to 25-fold selectivity over the h5-HT2 receptor subtypes, and 20-fold selectivity over h5-HT1B 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!

E-mail: tech@probechem.com