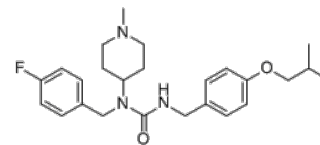


Product Name : Pimavanserin
Cat. No. : PC-20963
CAS No. : 706779-91-1
Molecular Formula : C₂₅H₃₄FN₃O₂
Molecular Weight : 427.56
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



CAS: 706779-91-1

Biological Activity

Pimavanserin (ACP-103) is a potent, selective, orally active **5-HT_{2A}** receptor inverse agonist, competitively antagonizes the binding of [(3)H]ketanserin to heterologously expressed human 5-HT(2A) receptors with pK_i of 9.3 in membranes and 9.70 in whole cells.

ACP-103 displayed potent inverse agonist activity in the cell-based functional assay receptor selection and amplification technology (R-SAT) with pIC₅₀ of 8.3.

ACP-103 displayed no affinity and functional activity at 5-HT(2B) receptors, dopamine D(2) receptors, and other human monoaminergic receptors.

ACP-103 attenuated head-twitch behavior (3 mg/kg p.o.), and prepulse inhibition deficits (1-10 mg/kg s.c.) induced by the 5-HT(2A) receptor agonist (+/-)-2,5-dimethoxy-4-iodoamphetamine hydrochloride in rats and reduced the hyperactivity induced in mice by the N-methyl-D-aspartate receptor noncompetitive antagonist MK-801 (dizocilpine maleate).

References

Vanover KE, et al. *Pharmacol Biochem Behav.* 2008 Oct;90(4):540-4.

Vanover KE, et al. *J Pharmacol Exp Ther.* 2006 May;317(2):910-8.

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

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