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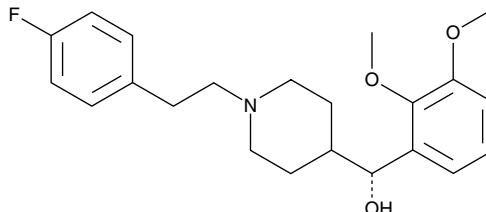
Product Information



Volinanserin

Item No. 15936

CAS Registry No.: 139290-65-6
Formal Name: α R-(2,3-dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperidinemethanol
Synonym: MDL 100907
MF: $C_{22}H_{28}FNO_3$
FW: 373.5
Purity: $\geq 95\%$
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} : 266, 272 nm



Laboratory Procedures

For long term storage, we suggest that volinanserin be stored as supplied at -20°C . It should be stable for at least two years.

Volinanserin is supplied as a crystalline solid. A stock solution may be made by dissolving the volinanserin in the solvent of choice. Volinanserin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of volinanserin in these solvents is approximately 20, 15, and 25 mg/ml, respectively.

Volinanserin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, volinanserin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Volinanserin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Volinanserin is a potent and selective antagonist of the serotonin receptor 5-HT_{2A} ($K_i = 0.36\text{--}0.85$ nM).¹⁻² It weakly binds 5-HT_{2C} , α_1 -adrenergic, and sigma receptors ($K_i = 88, 128$, and 87 nM) and much less effectively associates with other serotonin, dopamine, adrenergic, muscarinic acetylcholine receptors and monoamine transporters.²⁻³ Volinanserin displays antipsychotic activity, attenuates impulsivity, and augments antidepressant effects *in vivo*.^{1,4-5}

References

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4. Ardayfio, P.A., Benvenega, M.J., Chaney, S.F., *et al.* *J. Pharmacol. Exp. Ther.* **327**(3), 891-897 (2008).
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