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## DATASHEET

MDL 100907

### Product overview

<b>Name</b>	MDL 100907
<b>Cat No</b>	HB1780
<b>Alternative names</b>	Volinanserin
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Potent and selective 5-HT <sub>2A</sub> receptor antagonist

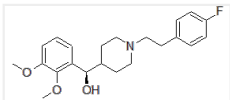
### Biological Data

<b>Biological description</b>	Potent and selective 5-HT <sub>2A</sub> receptor antagonist ( $K_i = 0.36$ nM). Shows > 80-fold selectivity for 5-HT <sub>2A</sub> over other 5-HT receptor subtypes. Displays antipsychotic actions. Active <i>in vivo</i> .
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM) and in 0.05M HCl (50 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(R)-(+)- $\alpha$ -(2,3-Dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperinemethanol
<b>Molecular Weight</b>	373.46
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>28</sub> FNO <sub>3</sub>
<b>CAS Number</b>	139290-65-6
<b>PubChem identifier</b>	5311271
<b>SMILES</b>	<chem>COC1=CC=CC(=C1OC)[C@@H](C2CCN(CC2)CCC3=CC=C(C=C3)F)O</chem>
<b>Source</b>	Synthetic
<b>InChi</b>	InChI=1S/C22H28FNO3/c1-26-20-5-3-4-19(22(20)27-2)21(25)17-11-14-24(15-12-17)13-10-16-6-8-18(23)9-7-16/h3-9,17,21,25H,10-15H2,1-2H3/t21-m/s1
<b>InChiKey</b>	HXTGX YRHXAGCFP-OAQYLSRUSA-N
<b>MDL number</b>	MFCD00909060
<b>Appearance</b>	White solid

### References

**Preclinical characterization of the potential of the putative atypical antipsychotic MDL 100,907 as a potent 5-HT<sub>2A</sub> antagonist with a favorable CNS safety profile.**

Kehne et al (1996) J Pharmacol Exp Ther 277(2)

**PubMedID** [8627580](#)

**The 5-hydroxytryptamine<sub>2A</sub> receptor antagonist**

**R-(+)-alpha-(2,3-dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperidinemethanol (M100907) attenuates impulsivity after both drug-induced disruption (dizocilpine) and enhancement (antidepressant drugs) of dif**

Ardayfio et al (2008) J Pharmacol Exp Ther 327(3)

**PubMedID** [18772320](#)

**Characterization of the 5-HT<sub>2</sub> receptor antagonist MDL 100907 as a putative atypical antipsychotic: behavioral, electrophysiological and neurochemical studies.**

Sorensen et al (1993) J Pharmacol Exp Ther 266(2)

**PubMedID** [8102646](#)

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