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DATASHEET

MDL 100907

Product overview

Name	MDL 100907
Cat No	HB1780
Alternative names	Volinanserin
Biological action	Antagonist
Purity	>98%
Description	Potent and selective 5-HT _{2A} receptor antagonist

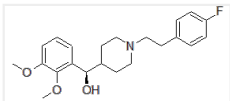
Biological Data

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

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

Chemical Data

Chemical name	(R)-(+)- α -(2,3-Dimethoxyphenyl)-1-[2-(4-fluorophenyl)ethyl]-4-piperinemethanol
Molecular Weight	373.46
Chemical structure	
Molecular Formula	C ₂₂ H ₂₈ FNO ₃
CAS Number	139290-65-6
PubChem identifier	5311271
SMILES	<chem>COC1=CC=CC(=C1OC)[C@@H](C2CCN(CC2)CCC3=CC=C(C=C3)F)O</chem>
Source	Synthetic
InChi	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
InChiKey	HXTGXRYRHXAGCFP-OAQYLSRUSA-N
MDL number	MFCD00909060
Appearance	White solid

References

Preclinical characterization of the potential of the putative atypical antipsychotic MDL 100,907 as a potent 5-HT_{2A} antagonist with a favorable CNS safety profile.

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

PubMedID [8627580](#)

The 5-hydroxytryptamine_{2A} 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-HT₂ 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](#)
