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DATASHEET

JNJ 16259685

Product overview

Name	JNJ 16259685
Cat No	HB0348
Biological action	Antagonist
Purity	>98%
Description	Potent, selective, non-competitive mGlu ₁ antagonist

Images



Biological Data

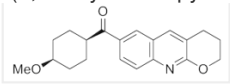
Biological description	Potent, selective and non-competitive mGlu ₁ receptor antagonist ($K_i = 0.34$ nM at mGlu _{1a}). Displays no activity at mGlu ₂ , mGlu ₃ , mGlu ₄ , mGlu ₆ , NMDA or AMPA receptors ($IC_{50} = >10$ μ M). Blood-brain barrier permeable. Inhibits glutamate-induced Ca ²⁺ mobilization ($IC_{50} = 3.24$ nM at recombinant rat mGlu _{1a} receptor). Decreases drug and alcohol addiction behaviours in rodents.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in ethanol (100mM) and in DMSO (25mM)
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	(3,4-Dihydro-2H-pyrano[2,3-b]quinolin-7-yl)-(cis-4-methoxycyclohexyl)-methanone
Molecular Weight	325.41
Chemical structure	

Chemical name	(3,4-Dihydro-2H-pyrano[2,3-b]quinolin-7-yl)-(cis-4-methoxycyclohexyl)-methanone
	
Molecular Formula	C ₂₀ H ₂₃ NO ₃
CAS Number	409345-29-5
PubChem identifier	11313361
SMILES	<chem>COC1CCC(CC1)C(=O)C2=CC3=CC4=C(N=C3C=C2)OCCC4</chem>
InChi	InChI=1S/C20H23NO3/c1-23-17-7-4-13(5-8-17)19(22)14-6-9-18-16(11-14)12-15-3-2-10-24-20(15)21-18/h6,9,11-13,17H,2-5,7-8,10H2,1H3
InChiKey	QOTAQTRFJWLFCR-UHFFFAOYSA-N
Appearance	Off-white solid

References

JNJ16259685, a highly potent, selective and systemically active mGlu1 receptor antagonist.

Lavreysen H *et al* (2004) Neuropharmacology 47(7)

PubMedID [15555631](#)

Effects of mGluR1 antagonism in the dorsal hippocampus on drug context-induced reinstatement of cocaine-seeking behavior in rats.

Xie X *et al* (2010) Psychopharmacology (Berl) 208(1)

PubMedID [19847405](#)

mGluR1 within the nucleus accumbens regulates alcohol intake in mice under limited-access conditions.

Lum EN *et al* (2014) Neuropharmacology 79

PubMedID [24467847](#)

Synthesis, structure-activity relationship, and receptor pharmacology of a new series of quinoline derivatives acting as selective, noncompetitive mGlu1 antagonists.

Mabire D *et al* (2005) J Med Chem 48(6)

PubMedID [15771457](#)