Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

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

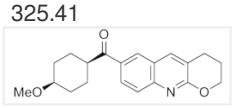
Biological Data

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 µM). 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.

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-2*H*-pyrano[2,3-*b*]quinolin-7-yl)-(*cis*-4-methoxycyclohexyl)-methanone
Molecular Weight	325.41
Chemical structure	

Molecular Formula	$C_{20}H_{23}NO_3$
CAS Number	409345-29-5
PubChem identifier	11313361
SMILES	COC1CCC(CC1)C(=O)C2=CC3=CC4=C(N=C3C=C2)OCCC4
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