

**Product Name:** JNJ 16259685

**Catalog No.:** 2333

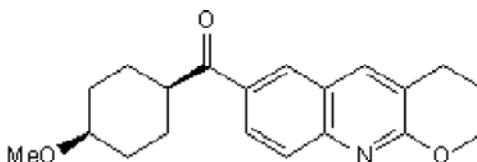
**Batch No.:** 4

CAS Number: 409345-29-5

IUPAC Name: (3,4-Dihydro-2*H*-pyrano[2,3-*b*]quinolin-7-yl)-(cis-4-methoxycyclohexyl)-methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>23</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 325.41  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 100 mM  
DMSO to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.14 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.82	7.12	4.3
Found	73.71	7.14	4.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** JNJ 16259685

**Catalog No.:** 2333

**Batch No.:** 4

CAS Number: 409345-29-5

IUPAC Name: (3,4-Dihydro-2H-pyrano[2,3-b]quinolin-7-yl)-(cis-4-methoxycyclohexyl)-methanone

**Description:**

Sub-nanomolar potent, non-competitive mGlu<sub>1</sub> antagonist (K<sub>i</sub> = 0.34 nM). Inhibits glutamate-induced Ca<sup>2+</sup> response at the human mGlu<sub>1</sub> receptor with an IC<sub>50</sub> value of 0.55 nM. Selective over mGlu<sub>5</sub> (> 400-fold) and displays no activity at mGlu<sub>2</sub>, mGlu<sub>3</sub>, mGlu<sub>4</sub>, mGlu<sub>6</sub>, AMPA or NMDA receptors (IC<sub>50</sub> > 10 μM). Centrally active following systemic administration.

**Physical and Chemical Properties:**

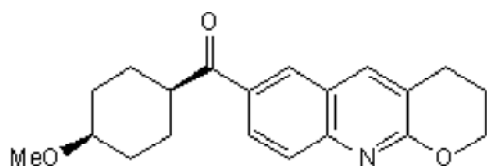
Batch Molecular Formula: C<sub>20</sub>H<sub>23</sub>NO<sub>3</sub>

Batch Molecular Weight: 325.41

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Xie et al** (2010) Effects of mGluR1 antagonism in the dorsal hippocampus on drug context-induced reinstatement of cocaine-seeking behavior in rats. *Psychopharmacology (Berl)*. **208** 1. PMID: 19847405.

**Mabire et al** (2005) Synthesis, structure-activity relationship, and receptor pharmacology of a new series of quinoline derivatives acting as selective, noncompetitive mGlu1 antagonists. *J.Med.Chem.* **48** 2134. PMID: 15771457.

**Steckler et al** (2005) Metabotropic glutamate receptor 1 blockade impairs acquisition and retention in a spatial water maze task. *Behav.Brain Res.* **164** 52. PMID: 16043241.

**Lavreysen et al** (2004) JNJ16259685, a highly potent, selective and systemically active mGlu1 receptor antagonist. *Neuropharmacology* **47** 961. PMID: 15555631.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

ethanol to 100 mM

DMSO to 25 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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