

## Certificate of Analysis

**Product Name:** Ocina<sup>plon</sup>

**Catalog No.:** 4410

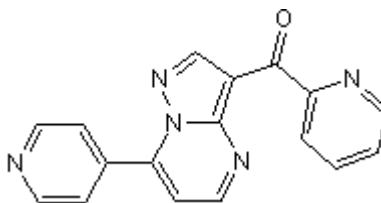
**Batch No.:** 1

CAS Number: 96604-21-6

IUPAC Name: 2-Pyridinyl[7-(4-pyridinyl)pyrazolo[1,5-a]pyrimidin-3-yl]methanone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>11</sub>N<sub>5</sub>O  
**Batch Molecular Weight:** 301.3  
**Physical Appearance:** Pale yellow solid  
**Solubility:** 2eq.HCl to 100 mM  
 DMSO to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.77	3.68	23.24
Found	67.62	3.8	23.17

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

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**Description:**

Modulator of GABA<sub>A</sub> receptors. Displays modest selectivity for GABA<sub>A</sub> α<sub>1</sub> receptors; displays partial agonist activity at α<sub>2</sub>-, α<sub>3</sub>- and α<sub>5</sub>-containing receptors. Exhibits anxiolytic activity.

**Physical and Chemical Properties:**

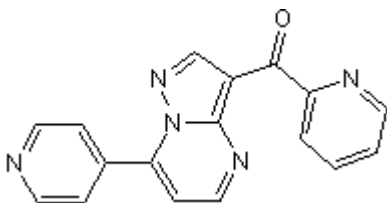
Batch Molecular Formula: C<sub>17</sub>H<sub>11</sub>N<sub>5</sub>O

Batch Molecular Weight: 301.3

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

2eq.HCl to 100 mM

DMSO to 10 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.

**References:**

**Lippa *et al*** (2005) Selective anxiolysis produced by ocina<sup>plon</sup>, a GABA<sub>A</sub> receptor modulator. *Proc.Natl.Acad.Sci.USA* **102** 7380. PMID: 15870187.

**Rupprecht *et al*** (2006) GABA<sub>A</sub> receptors as targets for novel anxiolytic drugs. *World J.Biol.Psychiatry* **7** 231. PMID: 17071543.

**Mirza *et al*** (2006) Comparative cue generalization profiles of L-838,417, SL651498, zolpidem, CL218,872, ocina<sup>plon</sup>, bretazenil, zopiclone, and various benzodiazepines in chlordiazepoxide and zolpidem drug discrimination. *J.Pharmacol.Exp.Ther.* **316** 1291. PMID: 16339395.

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