

# Certificate of Analysis

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**Product Name:** Zaleplon

**Catalog No.:** 3655

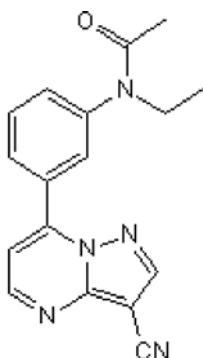
**Batch No.:** 1

CAS Number: 151319-34-5

IUPAC Name: *N*-[3-(Cyanopyrazolo[1,5-*a*]pyrimidin-7-yl)phenyl]-*N*-ethylacetamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>15</sub>N<sub>5</sub>O  
**Batch Molecular Weight:** 305.33  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 10 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.87	4.95	22.94
Found	66.95	4.99	22.93

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

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**Description:**

Non-benzodiazepine agent that acts as an agonist at the benzodiazepine site. Displays hypnotic, anxiolytic, myorelaxant and anticonvulsant activity.

**Physical and Chemical Properties:**

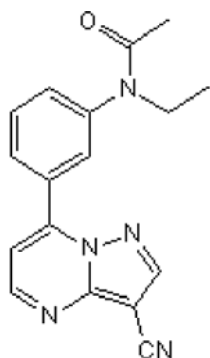
Batch Molecular Formula: C<sub>17</sub>H<sub>15</sub>N<sub>5</sub>O

Batch Molecular Weight: 305.33

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Sanger et al** (1996) Comparison of the pharmacological profiles of the hypnotic drugs, zal. and zol. *Eur.J.Pharmacol.* **313** 35. PMID: 8905326.

**Gaudreault et al** (1995) Pharmacokinetics and anticonvulsant effect of a new hypnotic, CL 284,846, in rats. *Pharm.Res.* **12** 1592. PMID: 8592655.

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