

## Certificate of Analysis

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**Product Name:** TCS 1105

**Catalog No.:** 3942

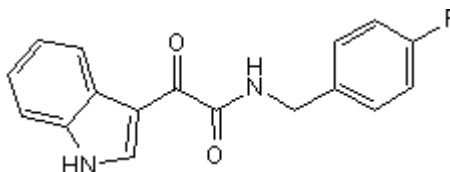
**Batch No.:** 1

**CAS Number:** 185391-33-7

**IUPAC Name:** *N*-[(-4-Fluorophenyl)methyl]- $\alpha$ -oxo-1*H*-indole-3-acetamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>13</sub>FN<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 296.3  
**Physical Appearance:** Light orange/brown solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.34 (Ethyl acetate:Petroleum ether [2:1])  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.91	4.42	9.45
Found	69.02	4.35	9.36

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



## Product Information

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### Description:

GABA<sub>A</sub> benzodiazepine receptor (BZR) ligand. Acts as an agonist at  $\alpha_2$  and antagonist at  $\alpha_1$  benzodiazepine receptors ( $K_i$  values are 118 and 245 nM respectively). Anxiolytic agent lacking sedative activity.

### Physical and Chemical Properties:

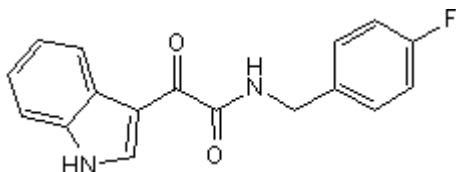
Batch Molecular Formula: C<sub>17</sub>H<sub>13</sub>FN<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 296.3

Physical Appearance: Light orange/brown solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

**Taliani *et al*** (2009) Identification of anxiolytic/nonsedative agents among indol-3-ylglyoxylamides acting as functionally selective agonists at the  $\gamma$ -aminobutyric acid-A (GABA<sub>A</sub>)  $\alpha_2$  benzodiazepine receptor. *J.Med.Chem* **52** 3723. PMID: 19469479.

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