

**Product Name:** KI-7

**Catalog No.:** 6787

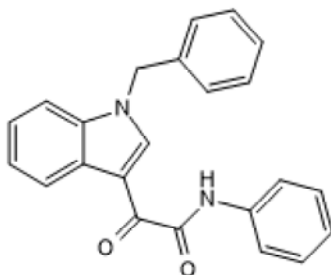
**Batch No.:** 1

CAS Number: 1489263-00-4

IUPAC Name:  $\alpha$ -Oxo-N-phenyl-1-(phenylmethyl)-1H-indole-3-acetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 354.4  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.34 (Ethyl acetate:Petroleum ether [1:9])  
**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	77.95	5.12	7.9
Found	78.11	5.14	7.89

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

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**Description:**

Adenosine A<sub>2B</sub> receptor positive allosteric modulator. Potentiates the NECA (Cat. No. 1691) -induced increase in cAMP production in CHO cells expressing A<sub>2B</sub> receptors. Also potentiates the effects of NECA and the A<sub>2B</sub> receptor agonist BAY 60-6583 (Cat. No. 4472) in mediating osteoblast differentiation from MSCs in vitro.

**Physical and Chemical Properties:**

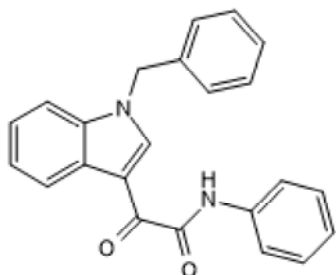
Batch Molecular Formula: C<sub>23</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 354.4

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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:**

**Trincavelli et al** (2014) Osteoblast differentiation and survival: A role for A<sub>2B</sub> adenosine receptor allosteric modulators. *Biochim.Biophys.Acta* **1843** 2957. PMID: 25241343.

**Trincavelli et al** (2014) Allosteric modulators of human A<sub>2B</sub> adenosine receptor. *Biochim.Biophys.Acta* **1840** 1194. PMID: 24361612.

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