

**Product Name:** KuWal151

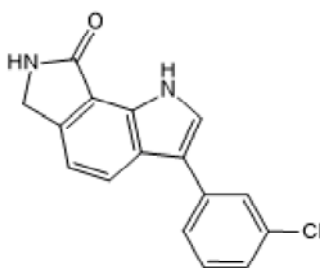
**Catalog No.:** 6644

**Batch No.:** 1

**IUPAC Name:** 3-(3-Chlorophenyl)-6,7-dihydropyrrolo[3,4-g]indol-8(1H)-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>11</sub>ClN<sub>2</sub>O  
**Batch Molecular Weight:** 282.72  
**Physical Appearance:** Orange solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.16 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.97	3.92	9.91
Found	68.04	3.9	9.86

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

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**Description:**

Potent and selective CLK inhibitor (IC<sub>50</sub> values are 28, 88 and 510 nM for CLK4, 1 and 2, respectively). Exhibits no significant activity at CLK3, DYRK, CDK or GSK3 at a concentration of 10 μM. Inhibits growth of a range of cancer cells lines in vitro at subnanomolar concentrations.

**Physical and Chemical Properties:**

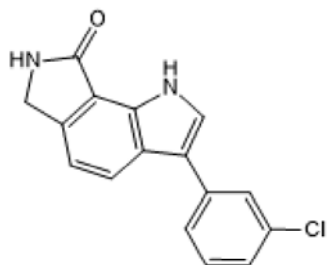
Batch Molecular Formula: C<sub>16</sub>H<sub>11</sub>ClN<sub>2</sub>O

Batch Molecular Weight: 282.72

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Walter *et al* (2018) Molecular structures of cdc2-like kinases in complex with a new inhibitor chemotype. PLoS One **13** e0196761. PMID: 29723265.

**Storage:** Store 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 with gentle warming

**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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