

Product Name: KuWal151

Catalog No.: 6644

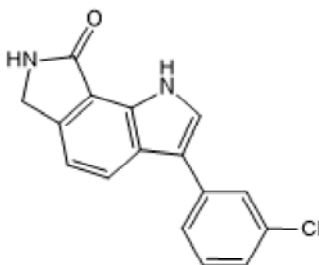
Batch No.: 1

CAS Number: 2341841-06-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₁ClN₂O
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_f = 0.16 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.4% purity
¹H 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:

KuWal151 is a potent and selective CLK inhibitor (IC₅₀ 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 cell lines in vitro at subnanomolar concentrations.

Physical and Chemical Properties:

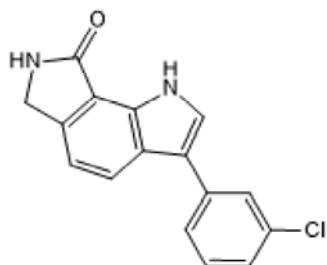
Batch Molecular Formula: C₁₆H₁₁ClN₂O

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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