

**Product Name:** CDK8/19i

**Catalog No.:** 7372

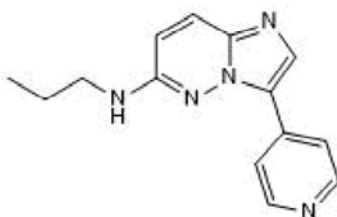
**Batch No.:** 1

CAS Number: 923596-52-5

IUPAC Name: *N*-Propyl-3-(4-pyridinyl)imidazo[1,2-*b*]pyridazin-6-amine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>15</sub>N<sub>5</sub>.  
**Batch Molecular Weight:** 253.3  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.38	5.97	27.65
Found	66.35	5.94	27.76

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

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**Description:**

CDK8/19i is a potent and selective CDK8 and CDK19 inhibitor (IC<sub>50</sub> values are 2.9 and 14.1 nM, respectively). CDK8/19i maintains pluripotency of mouse PSCs in culture. It induces the formation of dome-shaped colonies and upregulates Nanog-GFP reporter and endogenous Nanog expression in mouse ESCs in vitro.

**Physical and Chemical Properties:**

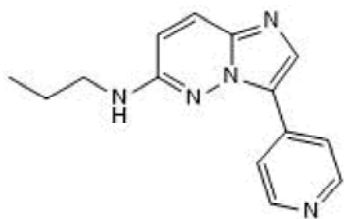
Batch Molecular Formula: C<sub>14</sub>H<sub>15</sub>N<sub>5</sub>.

Batch Molecular Weight: 253.3

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 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:**

**Lynch et al** (2020) Global hyperactivation of enhancers stabilizes human and mouse naive pluripotency through inhibition of CDK8/19 Mediator kinases. *Nat.Cell.Bio.* **22** 1223. PMID: 32989249.

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