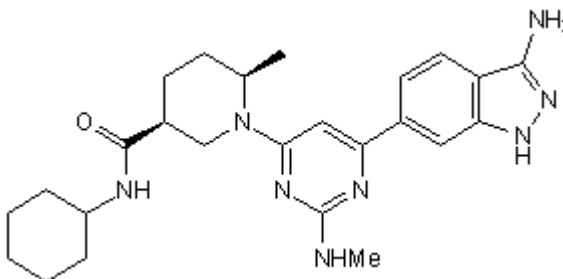


**Product Name:** GSK 2334470 **Catalog No.:** 4143 **Batch No.:** 1  
**CAS Number:** 1227911-45-6  
**IUPAC Name:** (3*S*,6*R*)-1-[6-(3-Amino-1*H*-indazol-6-yl)-2-(methylamino)-4-pyrimidinyl]-*N*-cyclohexyl-6-methyl-3-piperidinecarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>34</sub>N<sub>8</sub>O.H<sub>2</sub>O  
**Batch Molecular Weight:** 480.61  
**Physical Appearance:** Light yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Chloroform:Methanol [9:1])  
**HPLC:** Shows 98.6% purity  
**Chiral HPLC:** Shows 100% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -27.6 (Concentration = 1.16, Solvent = Methanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.48	7.55	23.31
Found	62.28	7.53	23.19

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

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**Description:**

Potent 3-phosphoinositide-dependent protein kinase (PDK1) inhibitor (IC<sub>50</sub> ~ 10 nM). Exhibits no effect on other kinases including Aurora, ROCK, p38 MAPK and PI 3-K. Suppresses T-loop phosphorylation and subsequent activation of PDK1 substrates S6K1, SGK and RSK in vitro; exhibits limited inhibitory effect on Akt activation. Delays melanomagenesis and metastasis in *Braf*<sup>V600E::Pten<sup>-/-</sup> mice.</sup>

**Physical and Chemical Properties:**

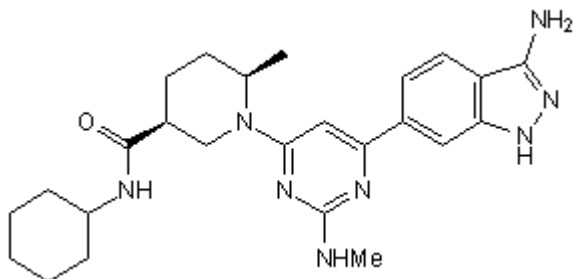
Batch Molecular Formula: C<sub>25</sub>H<sub>34</sub>N<sub>8</sub>O.H<sub>2</sub>O

Batch Molecular Weight: 480.61

Physical Appearance: Light yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°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:**

**Najafov et al** (2011) Characterization of GSK2334470, a novel and highly specific inhibitor of PDK1. *Biochem.J.* **433** 357. PMID: 21087210.

**Scortegagna et al** (2014) Genetic inactivation or pharmacological inhibition of Pdk1 delays development and inhibits metastasis of *Braf*<sup>V600E::Pten<sup>-/-</sup> melanoma. *Oncogene* **33** 4330. PMID: 24037523.</sup>

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Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

