

**Product Name:** GSK 2334470

**Catalog No.:** 4143

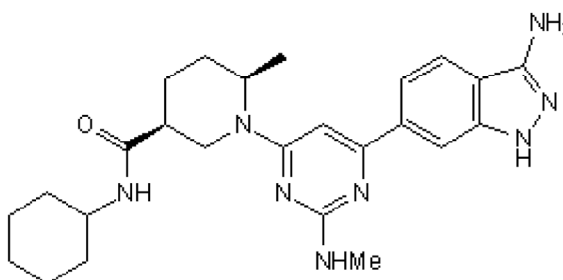
**Batch No.:** 1

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

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



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.4 (Chloroform:Methanol [9:1])
<b>HPLC:</b>	Shows 98.3% purity
<b>Chiral HPLC:</b>	Shows 100% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Optical Rotation:</b>	[α] <sub>D</sub> = -27.6 (Concentration = 1.16, Solvent = Methanol)
<b>Microanalysis:</b>	

	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:**

GSK 2334470 is a 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</sup>::Pten<sup>(-/-)</sup> mice.

**Physical and Chemical Properties:**

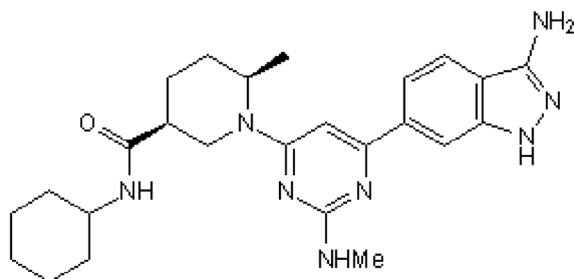
Batch Molecular Formula: C<sub>25</sub>H<sub>34</sub>N<sub>8</sub>O.H<sub>2</sub>O

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

**Licensing Information:**

Sold for research purposes only under agreement from GlaxoSmithKline

**References:**

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

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

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