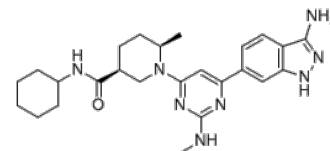


**Product Name** : GSK2334470  
**Cat. No.** : PC-49261  
**CAS No.** : 1227911-45-6  
**Molecular Formula** : C<sub>25</sub>H<sub>34</sub>N<sub>8</sub>O  
**Molecular Weight** : 462.602  
**Target** : PDK1  
**Solubility** : 10 mM in DMSO



## Biological Activity

GSK2334470 (GSK 2334470) is a potent, highly specific inhibitor of **PDK1** with IC<sub>50</sub> of 10 nM, does not inhibit 93 other protein kinases including 13 AGC-kinases most related to PDK1 at 5 μM.

GSK2334470 ablated T-loop residue phosphorylation and activation of SGK isoforms and S6K1 induced by serum or IGF1 (insulin-like growth factor 1) in HEK-293, U87 or MEF (mouse embryonic fibroblast) cells, GSK2334470 also inhibited T-loop phosphorylation and activation of Akt.

GSK2334470 inhibited activation of an Akt1 mutant lacking the PH domain (pleckstrin homology domain) more potently than full-length Akt1.

GSK2334470 also suppressed T-loop phosphorylation and activation of RSK2 (p90 ribosomal S6 kinase 2), another PDK1 target activated by the ERK (extracellular-signal-regulated kinase) pathway.

## References

Najafov A, et al. *Biochem J.* 2011 Jan 15;433(2):357-69.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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