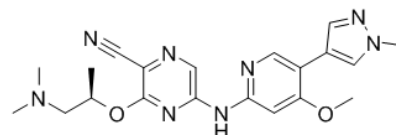


**Product Name** : CCT244747  
**Cat. No.** : PC-45429  
**CAS No.** : 1404095-34-6  
**Molecular Formula** : C<sub>20</sub>H<sub>24</sub>N<sub>8</sub>O<sub>2</sub>  
**Molecular Weight** : 408.457  
**Target** : Checkpoint Kinase (Chk)  
**Solubility** : 10 mM in DMSO



### Biological Activity

CCT244747 (CCT 244747) is a potent, highly selective, orally active, ATP competitive **CHK1** inhibitor with biochemical IC<sub>50</sub> of 8 nM.

CCT244747 displays 75-fold selectivity against FLT3 and >1,000-fold selectivity against CHK2 and CDK1.

CCT244747 inhibits cellular CHK1 activity (IC<sub>50</sub>=29-170nM), significantly enhances the cytotoxicity of several anticancer drugs and abrogates drug-induced S and G2 arrest in multiple tumor cell lines.

CCT244747 enhances antitumor activity of gemcitabine and irinotecan in vivo.

### References

Walton MI, et al. *Clin Cancer Res.* 2012 Oct 15;18(20):5650-61.

Lainchbury M, et al. *J Med Chem.* 2012 Nov 26;55(22):10229-40.

Barker HE, et al. *Mol Cancer Ther.* 2016 Sep;15(9):2042-54.

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

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