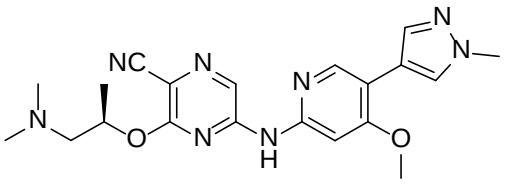
# CCT244747

# SYN-1216



(R)-3-((1-(dimethylamino)propan-2-yl)oxy)-5-((4-methoxy-5-(1-methyl-1H-pyrazol-4-yl)pyridin-2-yl)amino)pyrazine-2-carbonitrile

**CAS Registry No.:** 1404095-34-6

**Smiles String:**
CC[C@](OC1=NC(NC(C=C2OC)=NC=C2C(C=N3)=CN3C)=CN=C1C#N)([H])CN(C)C

**Molecular Weight:** 408.46

**Molecular Formula:** C20H24N8O2

**Lot Number:** Refer to vial

**1H-NMR:** Available on request

**HPLC (Purity):** > 95.0% @ 254 nm

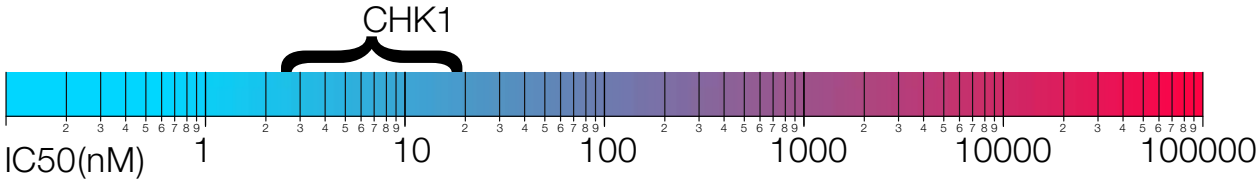
**ES-MS:** Available on request

## Description:

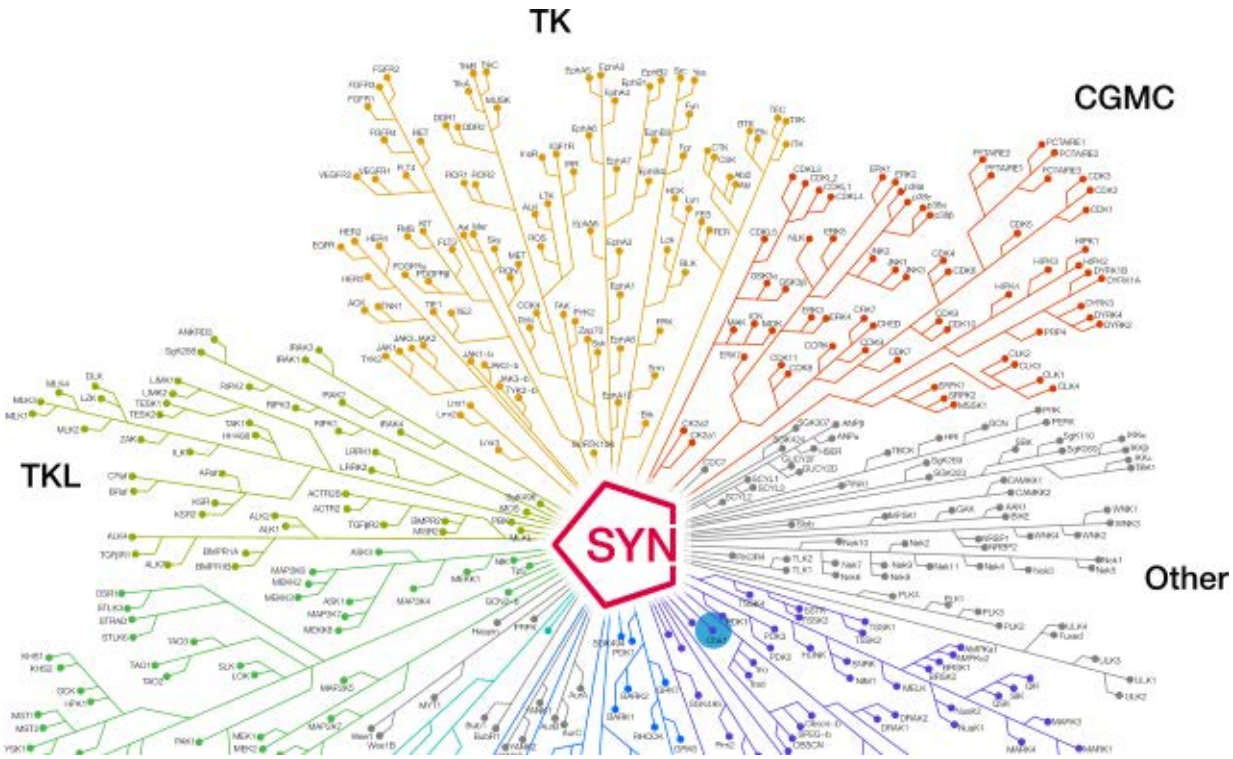
CCT244747 is a novel, potent, highly selective, orally active, ATP competitive CHK1 inhibitor. CCT244747 can inhibit cellular CHK1 activity with an IC50 of 29-170nM.

In multiple tumour cell models, this has the effect of significantly enhancing the cytotoxicity of several anticancer drugs (such as gemcitabine and irinotecan) and abrogating drug-induced S and G2 arrest.

## Biological Activity




## Kinome Mapping




## Shipping and Storage Temperature

**Shipping:**
Ambient

**Storage:**
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

## Solubility

Soluble in DMSO

## Preparing Stock Solutions

| Stock Solution (1ml DMSO) | 1mM | 10mM | 20mM | 50mM |
|---|---|---|---|---|
| Mass(mg) | 0.4085 | 4.0846 | 8.1692 | 20.423 |

## References


1. Walton MI, Eve PD, Hayes A, et al. CCT244747 is a novel, potent and selective CHK1 inhibitor with oral efficacy alone and in combination with genotoxic anticancer drugs. Clinical cancer research : an official journal of the American Association for Cancer Research. 2012;18(20):5650-5661. doi:10.1158/1078-0432.CCR-12-1322.
2. Lainchbury M, Matthews TP, McHardy T, et al. Discovery of 3-Alkoxyamino-5-(pyridin-2-ylamino)pyrazine-2-carbonitriles as Selective, Orally Bioavailable CHK1 Inhibitors. Journal of Medicinal Chemistry. 2012;55(22):10229-10240. doi:10.1021/jm3012933.


## Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.