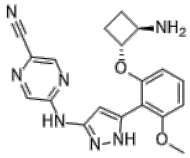
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BBI-2779
Cat. No.	:	PC-23369
CAS No.	:	2871057-47-3
Molecular Formula	:	$C_{19}H_{19}N_7O_2$
Molecular Weight	:	377.41
Target	:	Checkpoint Kinase (Chk)
Solubility	:	10 mM in DMSO



CAS: 2871057-47-3

Biological Activity

BBI-2779 is a potent, selective and orally bioavailable inhibitor of **CHK1** with biochemical IC50 of 0.5 nM and cellular IC50 of 3 nM (pCHK1-S345 activity in HT29 cells), 160-fold selective for CHK1 over CHK2.
BBI-2779 has superior biochemical and selective cell growth inhibition compared to other orally bioavailable CHK1 inhibitors.
BBI-2779 preferentially kills ecDNA-containing tumour cells, exhibits antiproliferation activity in COLO320DM cells with IC50 of 6 nM.
BBI-2779 suppresses tumour growth and prevents ecDNA-mediated acquired resistance to the pan-FGFR inhibitor infigratinib in gastric cancer model containing FGFR2 amplified on ecDNA, resulting in potent and sustained tumour regression in mice.

References

Tang J, et al. ***Nature.*** 2024 Nov;635(8037):210-218.

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

E-mail: tech@probechem.com