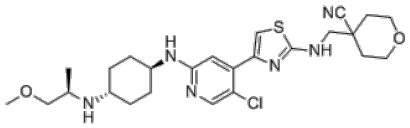
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	GFH009
Cat. No.	:	PC-21562
CAS No.	:	2247481-08-7
Molecular Formula	:	$C_{25}H_{35}ClN_6O_2S$
Molecular Weight	:	519.11
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



CAS: 2247481-08-7

Biological Activity

GFH009 is a potent, highly selective **CDK9** inhibitor with IC50 of 9 nM against CDK9/Cyclin T1 complex, blocks RNAP2-mediated transcription maturation.
shows negligible effects on other CDK family members
GFH009 demonstrates effective antiproliferative activity in a variety of human hematologic malignancy cell lines, with IC50 values below 0.2 μM in 7 of the 10 lines tested.
GFH009 demonstrates significant reduction of MCL-1 and proto-oncogene c-Myc, increases apoptosis markers Cleaved caspase-3 and Cleaved PARP in MV-4-11 cell cultures.
GFH009 (2.5 mg/kg-10 mg/kg, i.v.) exhibits tumor growth inhibition in MV-4-11 xenograft in female BALB/c nude mice.

References

Zhou F, et al. ***Oncotarget.*** 2023 Dec 20;14:997-1008.

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

E-mail: tech@probechem.com