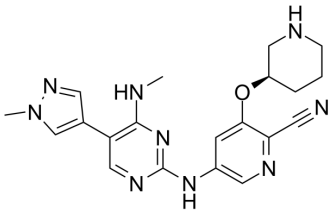
CHK1-IN-3

Cat. No.:	HY-128601
CAS No.:	2097252-39-4
Molecular Formula:	$C_{20}H_{23}N_9O$
Molecular Weight:	405.46
Target:	Checkpoint Kinase (Chk)
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	CHK1-IN-3 is a Checkpoint Kinase 1 (CHK1) inhibitor with an IC_{50} of 0.4 nM[1].
IC_{50} & Target	Chk1 0.4 nM (IC_{50})
In Vitro	CHK1-IN-3 effectively inhibites the growth of malignant hematopathy cell lines especially Z-138 (IC50: 0.013 μM) and displays low affinity for hERG (IC50 > 40 μM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CHK1-IN-3 significantly suppresses the tumor growth in Z-138 cell inoculated xenograft model as a single agent with body weight unaffected[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tong L, et al. Discovery of (R)-5-((5-(1-methyl-1H-pyrazol-4-yl)-4-(methylamino)pyrimidin-2-yl)amino)-3-(piperidin-3-yloxy)picolinonitrile, a novel CHK1 inhibitor for hematologic malignancies. Eur J Med Chem. 2019 Jul 1;173:44-62.

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