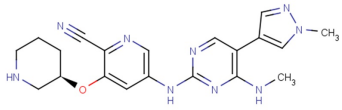
Data Sheet (Cat.No.T10791)

TargetMol
A DRUG SCREENING EXPERT

CHK1-IN-3

Chemical Properties



CAS No.:	2097252-39-4
Formula:	C20H23N9O
Molecular Weight:	405.46
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CHK1-IN-2 is an inhibitor of checkpoint kinase 1 (CHK1; IC50: 0.4 nM).
Targets(IC_{50})	Chk1: 0.4 nM
In vitro	CHK1-IN-3 displays a low affinity for hERG (IC50 > 40 μM). CHK1-IN-3 effectively inhibits the growth of malignant hematopathy cell lines especially Z-138 (IC50: 0.013 μM).
In vivo	In the Z-138 cell inoculated xenograft model, CHK1-IN-3 significantly suppresses the tumor growth as a single agent with bodyweight unaffected.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.466 mL	12.332 mL	24.663 mL
5 mM	0.493 mL	2.466 mL	4.933 mL
10 mM	0.247 mL	1.233 mL	2.466 mL
50 mM	0.049 mL	0.247 mL	0.493 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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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