

## **Product** Data Sheet

## Chk1-IN-5

Cat. No.: HY-131446 CAS No.: 2120398-39-0 Molecular Formula:  $C_{18}H_{18}FN_7O_2$ 

Molecular Weight: 383.38

Target: Checkpoint Kinase (Chk)

Pathway: Cell Cycle/DNA Damage

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

Description	Chk1-IN-5 is a potent checkpoint kinase 1 (Chk1) inhibitor. Chk1-IN-5 inhibits Chk1 phosphorylation and inhibits tumor growth in colon cancer xenograft model <sup>[1]</sup> .
IC <sub>50</sub> & Target	Chk1
In Vitro	Chk1-IN-5 (compound 3; 0.4, 1.2, 3.7, 11.1, 33.3, 100 nM) inhibits Chk1 phosphorylation in the HT-29 colon cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo Chk1-IN-5 (compound 3; 40 mg/kg; IV; twice a week for 21 days) inhibits tumor growth in Baib/c nude mice with HT-29 colon cancer cells<sup>[1]</sup>.

Chk1-IN-5 (10 mg/kg; via tail vein intravenous injection) displays a longer half-life ( $T_{1/2}$ =3.8 hours) and higher exposure (CL=2.3 L/hr•kg;  $V_{ss}$ =6.4 L/kg; AUC=4531 ng/ml•h)<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Baib/c nude mice with HT-29 colon cancer $cells^{[1]}$
Dosage:	40 mg/kg
Administration:	IV; twice a week for 21 days
Result:	Inhibited tumor growth.
Animal Model:	Male SD rats (280-350 g) <sup>[1]</sup>
Dosage:	10 mg/kg
Administration:	Via tail vein intravenous injection
Result:	Displayed a longer half-life ( $T_{1/2}$ =3.8 hours) and higher exposure (CL=2.3 L/hr•kg; $V_{ss}$ =6.4 L/kg; AUC=4531 ng/ml•h).

## **REFERENCES**

1]. Xiong Cai, et al. 3,5-disubsti	tuted pyrazoles useful as checkpoint kinase 1 (chk1) inhibitors, and their preparations and applications. WO2017132928A1.	
	Caution: Product has not been fully validated for medical applications. For research use only.	
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