## CDK12-IN-3

Cat. No.:	HY-112261				
CAS No.:	2220184-50	-7			
Molecular Formula:	$C_{23}H_{28}F_{2}N_{8}O$				
Molecular Weight:	470.52				
Target:	CDK				
Pathway:	Cell Cycle/DNA Damage				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.1253 mL	10.6265 mL	21.2531 mL		
		5 mM	0.4251 mL	2.1253 mL	4.2506 mL		
		10 mM	0.2125 mL	1.0627 mL	2.1253 mL		
	Please refer to the so	ease refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.33 mg/mL (4.95 mM); Clear solution						
	t one by one: 10% DMSO >> 90% corn oil mg/mL (4.95 mM); Clear solution						

BIOLOGICAL ACTIV	ИТҮ
Description	CDK12-IN-3 is a potent and selective CDK12 inhibitor with an IC <sub>50</sub> of 491 nM in enzymatic assay.
IC₅₀ & Target	CDK12 491 nM (IC <sub>50</sub> )
In Vitro	CDK12-IN-3 is a highly selective CDK12 inhibitor. CDK12-IN-3 (0.1 μM) shows potent inhibition of phosphorylation of Ser2 on the CTD repeat domain of RNA Pol II as well as growth inhibition of OV90 cells and acute cytotoxicity to THP1 cells. <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Johannes JW, et al. Structure-Based Design of Selective Noncovalent CDK12 Inhibitors. ChemMedChem. 2018 Feb 6;13(3):231-235.

## Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA