Mevociclib

HY-128587		
1816989-16	-8	
C ₃₁ H ₃₅ ClN ₈ O ₂		
587.12		
CDK		
Cell Cycle/DNA Damage		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year
	1816989-16 C ₃₁ H ₃₅ ClN ₈ C 587.12 CDK Cell Cycle/I Powder	1816989-16-8 C ₃₁ H ₃₅ ClN ₈ O ₂ 587.12 CDK Cell Cycle/DNA Dama Powder -20°C 4°C In solvent -80°C

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SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.7032 mL	8.5161 mL	17.0323 mL	
		5 mM	0.3406 mL	1.7032 mL	3.4065 mL	
		10 mM	0.1703 mL	0.8516 mL	1.7032 mL	
	Please refer to the so	Please 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: ≥ 2.08 mg/mL (3.54 mM); Clear solution				
		2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.54 mM); Clear solution				

BIOLOGICAL ACTIVITY				
Description	Mevociclib (SY-1365) is a potent and first-in-class selective CDK7 inhibitor, with a K _i of 17.4 nM. Mevociclib exhibits anti- proliferative and apoptotic effects in solid tumor cell lines. Mevociclib possesses anti-tumor activity in hematological and multiple aggressive solid tumors ^{[1][2]} .			
IC ₅₀ & Target	CDK7			
In Vitro	Mevociclib exhibits inhibition for CDK7/CycH/MAT1 with an IC ₅₀ of 20 nM ^[2] . ?Mevociclib is a highly selective covalent CDK7 inhibitor, induces apoptosis in leukemia cells, but not in non-malignant cells ^[2] . ?Mevociclib exhibits activity in breast, ovarian, colorectal and lung cancer cells that exhibited low nM EC ₅₀ and rapid			

Product Data Sheet

	induction of apoptosis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	?Mevociclib induces uni	(20mg/kg; i.v.; biw; for 35 days) inhibits tumor growth in TNBC in vivo models ^[2] . b induces unique transcriptional signature ^[2] . ot independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Mice, HCC70 xenograft model ^[2]		
	Dosage:	20 mg/kg		
	Administration:	Intravenous injection, twice weekly, for 35 days		
	Result:	Inhibited tumor volume in vivo.		

CUSTOMER VALIDATION

- Cell Rep. 2023 Apr 20.
- Int J Mol Sci. 2022 Feb 24;23(5):2493.
- J Biol Chem. 2021 Sep 2;101162.

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REFERENCES

[1]. Hu S, et al. Discovery and characterization of SY-1365, a selective, covalent inhibitor of CDK7. Cancer Res. 2019 May 7.

[2]. Shanhu Hu, et al. SY-1365, a potent and selective CDK7 inhibitor, exhibits promising anti-tumor activity in multiple preclinical models of aggressive solid tumors.

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

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