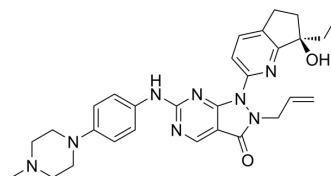


Azenosertib

Cat. No.:	HY-132295		
CAS No.:	2376146-48-2		
Molecular Formula:	C ₂₉ H ₃₄ N ₈ O ₂		
Molecular Weight:	526.63		
Target:	Wee1		
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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (474.72 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.8989 mL	9.4943 mL	18.9887 mL
	5 mM	0.3798 mL	1.8989 mL	3.7977 mL
	10 mM	0.1899 mL	0.9494 mL	1.8989 mL
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: ≥ 2.5 mg/mL (4.75 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.75 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Azenosertib (ZN-c3) is a selective, orally active inhibitor for Wee1 inhibitor (IC ₅₀ =3.9 nM). Azenosertib exhibits antitumor activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 3.9 nM (Wee1) ^[1]
In Vitro	Azenosertib inhibits proliferations of cancer cells H23 and A427 with IC ₅₀ s 103 and 75 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]

	Cell Line:	NCI H23, A427
	Concentration:	
	Incubation Time:	3 days for A427 cell and 4 days for NCI H23 cell
	Result:	Inhibited proliferation of A427 and NCI H23.
In Vivo	<p>Azenosertib (80 mg/kg; p.o.; 28 days) inhibits tumor growth in A427 xenograft NOD/SCID mice model^[1]. Azenosertib (10 mg/kg, p.o.) shows plasma exposure C_{max} of 2.1 μM, a half-time $T_{1/2}$ of 2.3 h, an AUC_{0-24h} of 9.7 μM·h, and an oral bioavailability of F=142% in beagle dog model^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	A427 xenograft NOD/SCID mice model ^[1]
	Dosage:	80 mg/kg
	Administration:	p.o. for 28 days
	Result:	Inhibited tumor growth.

REFERENCES

[1]. Huang PQ, et al. Discovery of ZN-c3, a Highly Potent and Selective Wee1 Inhibitor Undergoing Evaluation in Clinical Trials for the Treatment of Cancer [published online ahead of print, 2021 Aug 23]. J Med Chem. 2021;10.1021/acs.jmedchem.1c01121.

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

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