

ZN-c3

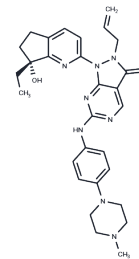
## Chemical Properties

CAS No. : 2376146-48-2

Formula: C<sub>29</sub>H<sub>34</sub>N<sub>8</sub>O<sub>2</sub>

Molecular Weight: 526.63

Storage: Store at low temperature, Keep away from direct sunlight  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Azenosertib (ZN-c3) is a potent and selective Wee1 inhibitor with balanced potency, ADME, and pharmacokinetic properties.[1]
Targets(IC50)	Wee1
In vitro	<b>METHODS:</b> Azenosertib (ZN-c3) was used to treat cancer cells H23 for three days and A427 for four days, and the proliferation of cancer cells was observed. <b>RESULTS</b> Azenosertib (ZN-c3) inhibited the proliferation of cancer cells H23 and A427, with IC50 of 103 and 75 nM. [1]
In vivo	The pharmacokinetic data of Azenosertib (10 mg/kg, oral) showed that the plasma exposure rate of Azenosertib in the beagle dog model was C <sub>max</sub> = 2.1 μM, the half-life T <sub>1/2</sub> was 2.3 h, the AUC <sub>0-24 h</sub> was 9.7 μM·h, and the oral availability was F=142%; Azenosertib (80 mg/kg, oral for 28 days) inhibited the tumor growth of A427 xenograft tumors in the NOD/SCID mouse model[1]

## Solubility Information

Solubility	DMSO: 50 mg/mL (94.94 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.49 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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
50 mM	0.038 mL	0.1899 mL	0.3798 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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. J Med Chem. 2021 Sep 9;64(17):13004-13024.

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