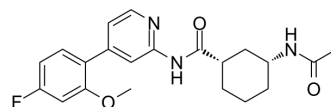


## AZ5576

<b>Cat. No.:</b>	HY-143584		
<b>CAS No.:</b>	2751721-40-9		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>24</sub> FN <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	385.43		
<b>Target:</b>	CDK		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (324.31 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.5945 mL	12.9725 mL	25.9450 mL
		5 mM	0.5189 mL	2.5945 mL	5.1890 mL
10 mM		0.2595 mL	1.2973 mL	2.5945 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.40 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.40 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	AZ5576 is a potent and highly selective CDK9 inhibitor (IC <sub>50</sub> : <5 nM). AZ5576 can be used for hematological Malignancy research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	CDK9 <5 nM

### REFERENCES

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[1]. Bernard Barlaam, et al. Discovery of AZD4573, a Potent and Selective Inhibitor of CDK9 That Enables Short Duration of Target Engagement for the Treatment of Hematological Malignancies.

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

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