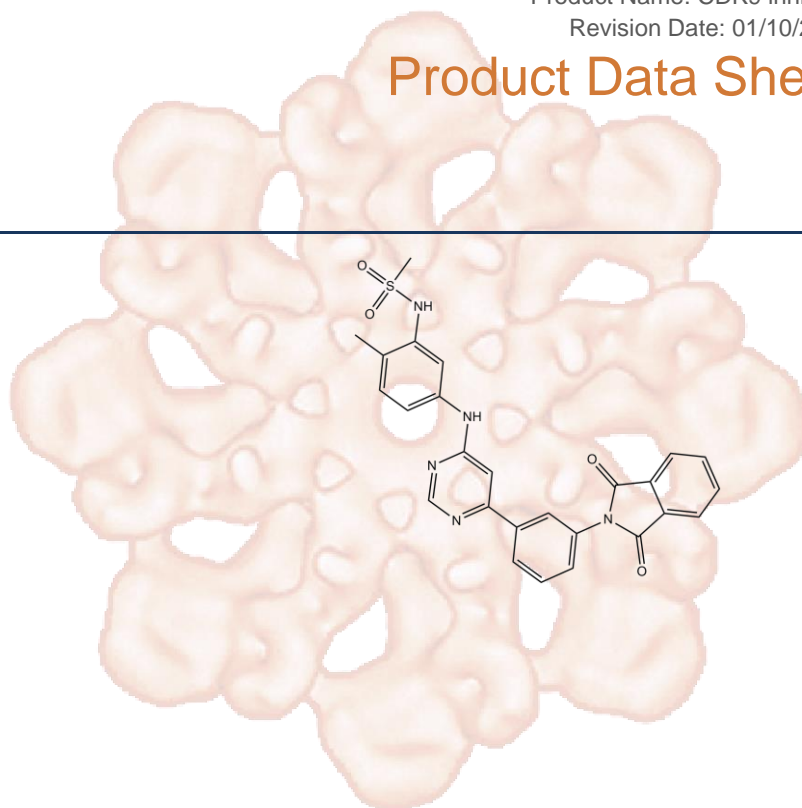


## CDK9 inhibitor

<b>Cat. No.:</b>	A3294
<b>CAS No.:</b>	1415559-43-1
<b>Formula:</b>	C <sub>26</sub> H <sub>21</sub> N <sub>5</sub> O <sub>4</sub> S
<b>M.Wt:</b>	499.54
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Cyclin-Dependent Kinases
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	2.0018 mL	10.0092 mL	20.0184 mL
	5 mM	0.4004 mL	2.0018 mL	4.0037 mL
	10 mM	0.2002 mL	1.0009 mL	2.0018 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

CDK9 inhibitor

 IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	MT4 cells
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	2.5 μM; 1 week
Applications:	In HIV-1 infected MT4 cells, CDK9 Inhibitor at 2.5 μM potentially inhibited HIV-1

propagation due to positive elongation factor b (P-TEFb) inhibition. Moreover, in MT4 cells, CDK9 Inhibitor at the concentrations of 1  $\mu$ M and 2  $\mu$ M resulted in the cell viabilities of 101% and 115%, respectively, which implied CDK9 Inhibitor had no cytotoxicity. In the p24 assay, CDK9 Inhibitor down-regulated the expression of p24 protein by 10%.

In Vivo

#### Animal experiment

Applications:

## Product Citations

1. Yuan J, Jiang YY, et al. "Super-Enhancers Promote Transcriptional Dysregulation in Nasopharyngeal Carcinoma." Cancer Res. 2017 Dec 1;77(23):6614-6626.PMID:28951465

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Németh G, Varga Z, Greff Z, et al. Novel, selective CDK9 inhibitors for the treatment of HIV infection. Curr Med Chem, 2011;18(3):342-58.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX<sup>BIO</sup> products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APEX<sup>BIO</sup> Technology**

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