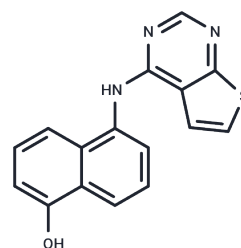


CDK9-IN-15

## Chemical Properties

CAS No. : 852678-17-2  
 Formula: C<sub>16</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>  
 Molecular Weight: 293.34  
 Storage: 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	CDK9-IN-15 is a potent small molecule CDK9 inhibitor, which can block the phosphorylation of positive transcription elongation factor b (P-TEFb) on the C-terminal region of RNA Poly-II by degradation and inhibition of CDK9, inhibit transcription, and rapidly reduce the level of intracellular mRNA, thereby causing apoptosis of tumor cells.
Targets(IC50)	CDK

## Solubility Information

Solubility	DMSO: 112.5 mg/mL (383.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.3 mg/mL (11.25 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

	1mg	5mg	10mg
1 mM	3.409 mL	17.0451 mL	34.0901 mL
5 mM	0.6818 mL	3.409 mL	6.818 mL
10 mM	0.3409 mL	1.7045 mL	3.409 mL
50 mM	0.0682 mL	0.3409 mL	0.6818 mL

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

Van Duyne R, et al. Effect of mimetic CDK9 inhibitors on HIV-1-activated transcription. J Mol Biol. 2013;425(4):812-829.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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