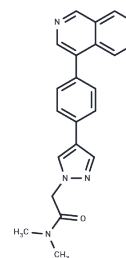


BI-1347

## Chemical Properties

CAS No. : 2163056-91-3  
 Formula: C<sub>22</sub>H<sub>20</sub>N<sub>4</sub>O  
 Molecular Weight: 356.42  
 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	BI-1347 is a potent, selective inhibitor of CDK8/cyclinC (IC <sub>50</sub> : 1 nM). It shows tumor growth inhibition in an in vivo xenograft model.
Targets(IC <sub>50</sub> )	CDK

## Solubility Information

Solubility	DMSO: 120 mg/mL (336.68 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.22 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	2.8057 mL	14.0284 mL	28.0568 mL
5 mM	0.5611 mL	2.8057 mL	5.6114 mL
10 mM	0.2806 mL	1.4028 mL	2.8057 mL
50 mM	0.0561 mL	0.2806 mL	0.5611 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

Harald Engelhardt, et al. New phenylpyrazolylacetamide compounds and derivatives as cdk8/cdk19 inhibitors.  
Li J, Bai Y, Liu Y, et al. Transcriptome-based chemical screens identify CDK8 as a common barrier in multiple cell reprogramming systems. Cell Reports. 2023, 42(6).

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

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