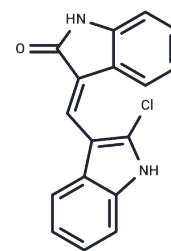


CDK1-IN-2

Chemical Properties

CAS No. :	220749-41-7
Formula:	C ₁₇ H ₁₁ ClN ₂ O
Molecular Weight:	294.73
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	CDK1-IN-2 (cdk1 inhibitor 2) is a CDK1 inhibitor with IC ₅₀ of 5.8 μM. A broad-spectrum kinase profiling of CDK1-IN-2 revealed nonselective inhibition of several kinases.
Targets(IC ₅₀)	CDK
In vitro	Effect of inhibitors designated CDK1-selective on the cell cycle of HCT-116 cells treated for 24 h, CDK1-IN-2(0-19.8μM) arrested HCT-116 cells in the G2/M phases[1].

Solubility Information

Solubility	DMSO: 225 mg/mL (763.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (11.2 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	3.3929 mL	16.9647 mL	33.9294 mL
5 mM	0.6786 mL	3.3929 mL	6.7859 mL
10 mM	0.3393 mL	1.6965 mL	3.3929 mL
50 mM	0.0679 mL	0.3393 mL	0.6786 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

Jorda R, et al. How Selective Are Pharmacological Inhibitors of Cell-Cycle-Regulating Cyclin-Dependent Kinases? J Med Chem. 2018 Oct 25;61(20):9105-9120.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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