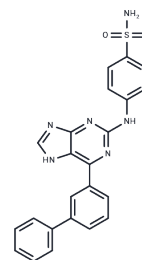


CDK2-IN-4

Chemical Properties

CAS No. :	2079895-42-2
Formula:	C ₂₃ H ₁₈ N ₆ O ₂ S
Molecular Weight:	442.49
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	CDK2-IN-4 is a potent and selective inhibitor of CDK2 with an IC ₅₀ of 44 nM for CDK2/cyclin A. It shows 2,000-fold selectivity over CDK1/cyclin B with IC ₅₀ of 86 μM.
Targets(IC ₅₀)	CDK

Solubility Information

Solubility	DMSO: 58 mg/mL (131.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 5.8 mg/mL (13.11 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5.8 mg/mL (13.11 mM), Solution. <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	2.2599 mL	11.2997 mL	22.5994 mL
5 mM	0.452 mL	2.2599 mL	4.5199 mL
10 mM	0.226 mL	1.130 mL	2.2599 mL
50 mM	0.0452 mL	0.226 mL	0.452 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

Coxon CR, et al. Cyclin-Dependent Kinase (CDK) Inhibitors: Structure-Activity Relationships and Insights into the CDK-2 Selectivity of 6-Substituted 2-Arylamino-purines. J Med Chem. 2017 Mar 9;60(5):1746-1767.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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