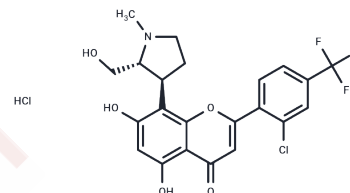


## Voruciclib hydrochloride

## Chemical Properties

CAS No. :	1000023-05-1
Formula:	C <sub>22</sub> H <sub>20</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>5</sub> O
Molecular Weight:	506.3
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	Voruciclib hydrochloride is an orally active and selective CDK inhibitor with a Ki range of 0.626 nM to 9.1 nM.
Targets(IC50)	CDK
In vitro	In both ABC and GCB subtypes, Voruciclib hydrochloride (0.5-5 μM; 6 hours) shows targeted downregulation of MCL-1. Ki values for each target such as CDK9/cyc T2, CDK9/cyc T1, CDK6/cyc D1, CDK4/cyc D1, CDK1/cyc B, and CDK1/cyc A for Voruciclib hydrochloride are 0.626 nM, 1.68 nM, 2.92 nM, 3.96 nM, 5.4 nM, 9.1 nM, respectively.
In vivo	Combination of Venetoclax (10 mpk, 1 mpk, 50 mpk, 25 mpk in U2932, RIVA, SU-DHL-4 and NU-DHL-1, respectively) and Voruciclib hydrochloride (200 mpk; Oral gavage) leads to enhance tumor growth inhibition compared to either drug alone in U2932, RIVA, SU-DHL-4 (six days per week for 4 weeks), and NU-DHL-1 models (five days per week for 3 weeks) of DLBCL.

## Solubility Information

Solubility	DMSO: 250 mg/mL (493.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.52 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9751 mL	9.8756 mL	19.7511 mL
5 mM	0.395 mL	1.9751 mL	3.9502 mL
10 mM	0.1975 mL	0.9876 mL	1.9751 mL
50 mM	0.0395 mL	0.1975 mL	0.395 mL

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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

Dey J, et al. Voruciclib, a clinical stage oral CDK9 inhibitor, represses MCL-1 and sensitizes high-risk Diffuse Large B-cell Lymphoma to BCL2 inhibition. Sci Rep. 2017 Dec 21;7(1):18007.

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