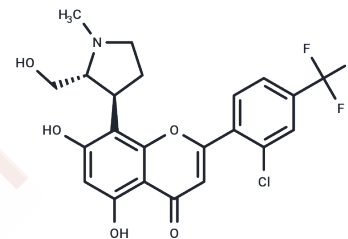


Voruciclib

Chemical Properties

CAS No. :	1000023-04-0
Formula:	C ₂₂ H ₁₉ ClF ₃ NO ₅
Molecular Weight:	469.84
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Voruciclib is an orally active and selective CDK inhibitor (Ki: 0.626 nM-9.1 nM) that represses the expression of MCL-1 in multiple models of diffuse large B-cell lymphoma and effectively blocks CDK9, the transcriptional regulator of MCL-1.
Targets(IC50)	CDK
In vitro	Voruciclib hydrochloride has Ki values for CDK inhibitor such as CDK9/cyc T2 of 0.626 nM, CDK9/cyc T1 of 1.68 nM, CDK6/cyc D1 of 2.92 nM, CDK4/cyc D1 of 3.96 nM, CDK1/cyc B of 5.4 nM, and CDK1/cyc A of 9.1 nM[1].Voruciclib (0.5-5 µM; 6 hours) displays targeted downregulation of MCL-1 in both ABC and GCB subtypes[1].
In vivo	In ABC subtypes (U2932, RIVA, OCI-LY10), GCB subtypes (SU-DHL-4, NU-DHL-1) xenografted in Female NOD.CB17-Prkdcscid/NCrHsd mice, Combination of 200 mpk Voruciclib hydrochloride and Venetoclax (10 mpk, 1 mpk, 50 mpk, 25 mpk in U2932, RIVA, SU-DHL-4 and NU-DHL-1, respectively) causes increase tumor growth inhibition compared to either drug alone in U2932, RIVA, SU-DHL-4, and NU-DHL-1 models of DLBCL [1].

Solubility Information

Solubility	DMSO: 42.5 mg/mL (90.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1284 mL	10.6419 mL	21.2838 mL
5 mM	0.4257 mL	2.1284 mL	4.2568 mL
10 mM	0.2128 mL	1.0642 mL	2.1284 mL
50 mM	0.0426 mL	0.2128 mL	0.4257 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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