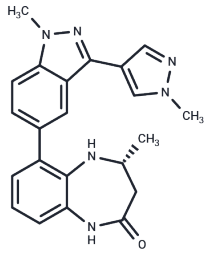
Data Sheet (Cat.No.T6811)

TargetMol

CPI-637

Chemical Properties



CAS No. : 1884712-47-3

Formula: C22H22N6O

Molecular Weight: 386.45

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	CPI-637 is a selective and cell-active benzodiazepinone CBP/EP300 bromodomain inhibitor.
Targets(IC50)	Epigenetic Reader Domain,Histone Acetyltransferase
In vitro	CPI-637 inhibits MYC expression in AMO-1 cells (EC50=0.60 μM)[1].
Kinase Assay	Ki Determination: Inhibition of human full-length recombinant PARP-1 by [32P]NAD+ incorporation is measured. The [32P]ADP-ribose incorporated into acid insoluble material is quantified using a PhosphorImager. Ki is calculated by nonlinear regression analysis.
Cell Research	AMO-1 cells (DSMZ) were plated at 20,000 cells/well in 96-well plates in Iscove's Modified Dulbecco's Medium supplemented with 10% fetal calf serum. Cells were treated for 6 h with a dose titration of CPI-637 starting from a 5 μM top concentration. After 6 h, cells were lysed and processed for QuantiGene Plex expression analysis and data were collected on a MAGPIX multiplex Luminex instrument.(Only for Reference)

Solubility Information

Solubility	DMSO: 19.2 mg/mL (49.68 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.92 mg/mL (4.97 mM),Suspension. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5877 mL	12.9383 mL	25.8766 mL
5 mM	0.5175 mL	2.5877 mL	5.1753 mL
10 mM	0.2588 mL	1.2938 mL	2.5877 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 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

Taylor AM, et al. ACS Med Chem Lett. 2016, 7(5):531-6.
Wang X, Xie Q, Ji Y, et al.Targeting KRAS-mutant stomach/colorectal tumors by disrupting the ERK2-p53 complex. Cell Reports.2023, 42(1): 111972.
Lang J Y, Wang X, Xie Q, et al. Targeting KRAS-mutant stomach/colorectal tumours by disrupting the ERK2-p53 complex[J]. bioRxiv. 2020