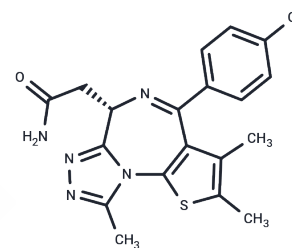


(S)-CPI203

Chemical Properties

CAS No. :	1446144-04-2
Formula:	C ₁₉ H ₁₈ ClN ₅ O ₂ S
Molecular Weight:	399.9
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-203 is an effective BET bromodomain inhibitor (IC ₅₀ : 37 nM for BRD4).
Targets(IC ₅₀)	Apoptosis, Epigenetic Reader Domain
In vitro	CPI203 inhibits BRD4 in vitro and in cells, while does not affect BRD4 kinase activity in vitro. [1] CPI203 exerts a cytostatic effect in all the 9 MCL cell lines analyzed with GI50 ranging from 0.06 to 0.71 μM, with low cytotoxicity in normal PBMCs from healthy donors. Furthermore, lenalidomide and CPI203, by targeting IRF4 and MYC, efficiently activates the cell death program in MCL cells resistant to bortezomib. [2]
Kinase Assay	BRD4 α-screen assay: The BRD4 α-screen assay is a proximity-based assay using a tetraacetylated H4 peptide and the isolated bromodomain 1 of human BRD4. IC ₅₀ values are calculated using a 10-point serial dilution of BET inhibitor.

Solubility Information

Solubility	DMSO: 50 mg/mL (125.03 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: 2 mg/mL (5 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	2.5006 mL	12.5031 mL	25.0063 mL
5 mM	0.5001 mL	2.5006 mL	5.0013 mL
10 mM	0.2501 mL	1.2503 mL	2.5006 mL
50 mM	0.050 mL	0.2501 mL	0.5001 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

Devaiah BN, et al. Proc Natl Acad Sci U S A. 2012, 109(18), 6927-6932.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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