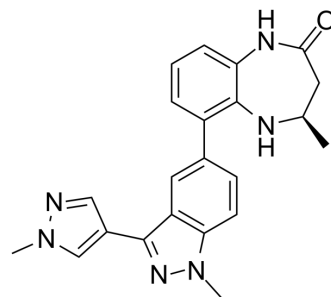


CPI-637

Cat. No.:	HY-100482		
CAS No.:	1884712-47-3		
Molecular Formula:	C ₂₂ H ₂₂ N ₆ O		
Molecular Weight:	386.45		
Target:	Epigenetic Reader Domain; Histone Acetyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 9.62 mg/mL (24.89 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.96 mg/mL (2.48 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 0.96 mg/mL (2.48 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.96 mg/mL (2.48 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	CPI-637 is a selective and potent CBP/EP300 bromodomain inhibitor with IC ₅₀ values of 0.03 μM, 0.051 μM and 11.0 μM for CBP, EP300 and BRD4 BD-1, respectively, and an EC ₅₀ of 0.3 μM for CBP ^[1] .
IC ₅₀ & Target	BRD4 BD1 11 μM (IC ₅₀)
In Vitro	CPI-637 (Compound 28) inhibits MYC expression in AMO-1 cells (EC ₅₀ value of 0.60 μM) ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Rep. 2021 Feb 16;34(7):108744.
- Acta Pharmacol Sin. 2021 Apr 13.
- Oncogene. 2021 Apr;40(15):2711-2724.
- Hemasphere. 2021 Jul 8;5(8):e610.
- Am J Pathol. 2021 Mar 8;S0002-9440(21)00084-5.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Taylor AM, et al. Fragment-Based Discovery of a Selective and Cell-Active Benzodiazepinone CBP/EP300 Bromodomain Inhibitor (CPI-637). ACS Med Chem Lett. 2016 Mar 15;7(5):531-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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