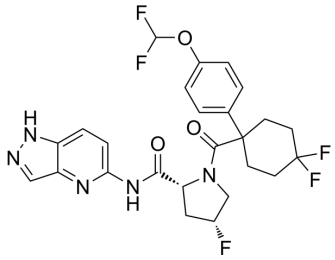
CBP/p300-IN-10

Cat. No.:	HY-128875
CAS No.:	2259641-71-7
Molecular Formula:	$C_{25}H_{24}F_5N_5O_3$
Molecular Weight:	537.48
Target:	Histone Acetyltransferase
Pathway:	Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10.5 mg/mL (19.54 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8605 mL	9.3027 mL	18.6053 mL
5 mM	0.3721 mL	1.8605 mL	3.7211 mL
10 mM	0.1861 mL	0.9303 mL	1.8605 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: ≥ 1.05 mg/mL (1.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.05 mg/mL (1.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.05 mg/mL (1.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CBP/p300-IN-10 is a highly potent histone acetyltransferase EP300 and CREBBP with IC_{50} values of 26 nM and 39 nM, respectively. CBP/p300-IN-10 can be used to research anticancer[1].

IC_{50} & Target

EP300	CREBBP
26 nM (IC_{50})	39 nM (IC_{50})

In Vitro

CBP/p300-IN-10 (example 84) (0-1 μM; 3 h) inhibit H3K27Ac activity in LK2 cells with an IC_{50} of 22 nM[1].

CBP/p300-IN-10 (38 nM-10 mM; 3 days) has inhibitory activity against LK2 and TE-8[1].

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

Cell Proliferation Assay[1]

Cell Line:	LK2 and TE-8
Concentration:	38 nM-10 mM
Incubation Time:	3 days
Result:	Inhibited LK2 and TE-8 with GI_{50}s of 97.163 nM and 152.484 nM, respectively.

REFERENCES

[1]. Naito, Hiroyuki, et al. Preparation of amino acid amide derivatives such as L- and D-prolinamide derivatives as Ep300/CREBBP inhibitors. WO2018235966A1

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