Pelabresib

Cat. No.:	HY-12863		
CAS No.:	1380087-89	-7	
Molecular Formula:	C ₂₀ H ₁₆ ClN ₃ O ₂		
Molecular Weight:	365.81		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

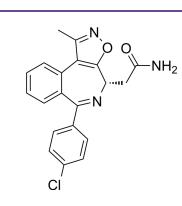
SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7337 mL	13.6683 mL	27.3366 mL
		5 mM	0.5467 mL	2.7337 mL	5.4673 mL
		10 mM	0.2734 mL	1.3668 mL	2.7337 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
n Vivo		one by one: 10% DMSO >> 40% PEC ng/mL (5.69 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution			
		one by one: 10% DMSO >> 90% cor ng/mL (5.69 mM); Clear solution	n oil		

BIOLOGICAL ACTIV	
Description	Pelabresib (CPI-0610) is a potent, selective, orally active and cell-active BET inhibitor. Pelabresib inhibits BRD4-BD1 with an IC ₅₀ of 39 nM, and with an EC ₅₀ value of 0.18 μM for MYC ^[1] .
IC ₅₀ & Target	BRD4-BD1 39 nM (IC ₅₀)
In Vitro	Pelabresib (0-1500 nM; 72 hours; Multiple myeloma cell lines and primary MM cells) treatment reduces the viability of MM

Product Data Sheet





cells in a dose-dependent manner^[2].

Pelabresib (800 nM; 72 hours; INA6 and MM.1S cells) treatment leads to G1 cell cycle arrest^[2].

Pelabresib (800 nM; 72 hours; INA6 and MM.1S cells) treatment significantly increases apoptosis in MM cells after 72 hours^[2].

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

Cell Viability Assay^[2]

Cell Line:	Multiple myeloma (MM) cell lines and primary MM cells
Concentration:	0 nM, 200 nM, 400 nM, 600 nM , 800 nM, 1000 nM, 1200 nM, or 1500 nM
Incubation Time:	72 huors
Result:	Decreased viability of MM cells in a dose-dependent manner.

Cell Cycle Analysis^[2]

Cell Line:	INA6 and MM.1S cells
Concentration:	800 nM
Incubation Time:	72 hours
Result:	Indeced G1 cell cycle arrest.

Apoptosis Analysis^[2]

Cell Line:	INA6 and MM.1S cells
Concentration:	800 nM
Incubation Time:	72 hours
Result:	MM cells apoptosis was increased after 72 hours.

In Vivo

Pelabresib (30-60 mg/kg; oral administration; for 28 days; MV-4-11 mouse xenograft model) treatment results in substantial suppression of tumor growth over the time period examined (41%, 80%, and 74% tumor growth inhibition, respectively), without any significant body weight loss in the animals^[1].

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

Animal Model:	MV-4-11 mouse xenograft model ^[1]
Dosage:	30 mg/kg once daily, 30 mg/kg twice daily, or 60 mg/kg once daily
Administration:	Oral administration; for 28 days
Result:	Suppressed of tumor growth, without any significant body weight loss in the animals.

REFERENCES

[1]. Albrecht BK, et al. Identification of a Benzoisoxazoloazepine Inhibitor (CPI-0610) of the Bromodomain and Extra-Terminal (BET) Family as a Candidate for Human Clinical Trials. J Med Chem. 2016 Feb 25;59(4):1330-9.

[2]. Siu KT, et al. Preclinical activity of CPI-0610, a novel small-molecule bromodomain and extra-terminal protein inhibitor in the therapy of multiple myeloma. Leukemia. 2017 Aug;31(8):1760-1769.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA