HJ-PI01

Cat. No.:	HY-129163		
CAS No.:	6192-43-4		
Molecular Formula:	C ₁₄ H ₁₁ NO ₂		
Molecular Weight:	225.24		
Target:	Pim		
Pathway:	JAK/STAT S	ignaling	
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (221.99 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	4.4397 mL	22.1985 mL	44.3971 mL
	5 mM	0.8879 mL	4.4397 mL	8.8794 mL
	10 mM	0.4440 mL	2.2199 mL	4.4397 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV	ТТҮ	
Description		zine) is an orally active Pim-2 inhibitor. HJ-PI01 induces apoptosis and autophagic cell death of as tumor growth in MDA-MB-231 xenograft mice. HJ-PI01 can be used for cancer research ^[1] .
In Vitro	compared with chlorpromaz HJ-PI01 (100-400 nmol/L; 24 HJ-PI01 (300 nmol/L; 24 hou HJ-PI01 (300 nmol/L; 24 hou HJ-PI01 (300 and 460 nmol/L	hours) dose-dependently inhibits MDA-MB-231 cell growth and shows a substantial improvement zine and PI003 ^[1] . 4 hours) shows weak toxicity to normal non-cancer cells ^[1] . urs) induces autophagic cell death of MDA-MB-231 cells ^[1] . urs) induces apoptotic cell death in MDA-MB-231 cells ^[1] . L; 12-48 hours) affects the expression levels of autophagy and apoptosis-related proteins ^[1] . confirmed the accuracy of these methods. They are for reference only. MDA-MB-231 cell line 300 and 460 nmol/L

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	Incubation Time:	12, 24, 36 and 48 hours		
Result:	Result:	Time-dependently increased LC3-II and Beclin-1 and induced p62 degradation in MDA-MB 231 cells. Increased the level of Bax. Decreased the level of Bcl-2, and Pim-2 and Pim-2 phosphorylation. Activated caspase-9 and caspase-3.		
		HJ-PI01 (40 mg/kg; oral administration, once daily for 10 days) inhibits tumor growth in MDA-MB-231 xenograft mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	BALB/c female nude mice with MDA-MB-231 cells injection ^[1]		
	Dosage:	40 mg/kg		
	Administration:	Oral administration; 40 mg/kg, once daily for 10 days		
	Result:	Significantly inhibited tumor growth with an obvious decreasing of the body, liver, spleen		

REFERENCES

[1]. Zhao YQ, et al. Characterization of HJ-PI01 as a novel Pim-2 inhibitor that induces apoptosis and autophagic cell death in triple-negative human breast cancer. Acta Pharmacol Sin. 2016 Sep;37(9):1237-50.

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