



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyyssw@sina.com

产品名称: HJ-PI01
CAS 号: 6192-43-4
产品货号: S89917

生物活性:

Description	HJ-PI01 (10-Acetylphenoxazine) is an orally active Pim-2 inhibitor. HJ-PI01 induces apoptosis and autophagic cell death of cancer cells. HJ-PI01 inhibits tumor growth in MDA-MB-231 xenograft mice. HJ-PI01 can be used for cancer research[1].											
In Vitro	HJ-PI01 (0-3200 nmol/L; 48 小时) 剂量性依赖地抑制 MDA-MB-231 细胞生长, 与氯丙嗪和 PI003 相比效果更为显著改善[1]。 HJ-PI01 (100-400 nmol/L; 24 小时) 对正常非癌细胞显示弱毒性[1]。 HJ-PI01 (300 nmol/L; 24 小时) 诱导 MDA-MB-231 细胞自噬性细胞死亡[1]。 HJ-PI01 (300 nmol/L; 24 小时) 诱导 MDA-MB-231 细胞凋亡性死亡[1]。 HJ-PI01 (300 和 460 nmol/L; 12-48 小时) 影响自噬和凋亡相关蛋白的表达水平[1]。 Western Blot Analysis[1] <table><tr><td>Cell Line:</td><td>MDA-MB-231 cell line</td></tr><tr><td>Concentration:</td><td>300 and 460 nmol/L</td></tr><tr><td>Incubation Time:</td><td>12, 24, 36 and 48 hours</td></tr><tr><td>Result:</td><td>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.</td></tr></table>				Cell Line:	MDA-MB-231 cell line	Concentration:	300 and 460 nmol/L	Incubation Time:	12, 24, 36 and 48 hours	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.
Cell Line:	MDA-MB-231 cell line											
Concentration:	300 and 460 nmol/L											
Incubation Time:	12, 24, 36 and 48 hours											
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.											
In Vivo	HJ-PI01 (40 mg/kg; 口服, 每日 1 次, 持续 10 天) 抑制 MDA-MB-231 异种移植小鼠肿瘤生长[1]。 <table><tr><td>Animal Model:</td><td>BALB/c female nude mice with MDA-MB-231 cells injection[1]</td></tr><tr><td>Dosage:</td><td>40 mg/kg</td></tr><tr><td>Administration:</td><td>Oral administration; 40 mg/kg, once daily for 10 days</td></tr><tr><td>Result:</td><td>Significantly inhibited tumor growth with an obvious decreasing of the body, liver, spleen and kidney weights of the mice.</td></tr></table>				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 and kidney weights of the mice.
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 and kidney weights of the mice.											
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 50 mg/mL (221.99 mM); 超声助溶 (<60°C); 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)											
	Preparing Stock Solutions	SolventMassConcentration	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							
* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。												
参考文献	[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.											



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyyssw@sina.com

完整储备液配制表:

* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	4.4397 mL	22.1985 mL	44.3971 mL	110.9927 mL
	5 mM	0.8879 mL	4.4397 mL	8.8794 mL	22.1985 mL
	10 mM	0.4440 mL	2.2199 mL	4.4397 mL	11.0993 mL
	15 mM	0.2960 mL	1.4799 mL	2.9598 mL	7.3995 mL
	20 mM	0.2220 mL	1.1099 mL	2.2199 mL	5.5496 mL
	25 mM	0.1776 mL	0.8879 mL	1.7759 mL	4.4397 mL
	30 mM	0.1480 mL	0.7400 mL	1.4799 mL	3.6998 mL
	40 mM	0.1110 mL	0.5550 mL	1.1099 mL	2.7748 mL
	50 mM	0.0888 mL	0.4440 mL	0.8879 mL	2.2199 mL
	60 mM	0.0740 mL	0.3700 mL	0.7400 mL	1.8499 mL
	80 mM	0.0555 mL	0.2775 mL	0.5550 mL	1.3874 mL
	100 mM	0.0444 mL	0.2220 mL	0.4440 mL	1.1099 mL