



上海源叶生物科技有限公司
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产品名称: **Elevenostat**

CAS 号: **1454902-97-6**

产品货号: **S89809**

生物活性:					
Description	Elevenostat (JB3-22) is a selective HDAC11 inhibitor with an IC50 of 0.235 μM. Elevenostat can induce apoptosis of multiple myeloma cells and has anti-tumor effect. In addition, Elevenostat inhibits the maturation of mouse oocytes[1][2].				
IC50 & Target	HDAC11 0.235 μM (IC50)	Caspase-3			
In Vitro	Elevenostat (10 μM; 4-16 小时) 会抑制小鼠卵母细胞的成熟, 导致纺锤体解体和染色体错位[2]。 Elevenostat (750 nM; 48 小时) 在 MM1.S 细胞中诱导凋亡, 大约有 31.4% 的细胞表达激活的 caspase-3[3]。 Elevenostat (10-8-10-4 M; 72 小时) 对人多发性骨髓瘤细胞表现出严重的细胞毒性, IC50 范围为 0.803-3.410 μM[3]。				
In Vivo	Elevenostat (1-10 mg/kg; 腹腔注射; 0-4 周) 在多发性骨髓瘤小鼠模型中具有抗肿瘤的作用[3]。 Animal Model: 5TGM1/C57BL/KaLwRij mouse multiple myeloma model[3]				
	Animal Model:	5TGM1/C57BL/KaLwRij mouse multiple myeloma model[3]			
	Dosage:	1 mg/kg and 10 mg/kg			
	Administration:	Intraperitoneal injection (i.p.); once daily for the first 10 days and every alternate day for the rest of the treatment period until mice reached disease endpoint.			
	Result:	Effectively inhibited tumor growth. Decrease serum IgG2b level. Significantly prolonged the survival period of tumor-bearing mice. Was well-tolerated at these doses and dosing frequencies, supported by lack of changes in body weight.			
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 250 mg/mL (792.85 mM; 超声助溶; 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	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	3.1714 mL	15.8569 mL	31.7138 mL
		5 mM	0.6343 mL	3.1714 mL	6.3428 mL
		10 mM	0.3171 mL	1.5857 mL	3.1714 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]. Huang J, et al. Histone/protein deacetylase 11 targeting promotes Foxp3+ Treg function. Sci Rep. 2017;7(1):8626. Published 2017 Aug 17. [2]. Sui L, et al. HDAC11 promotes meiotic apparatus assembly during mouse oocyte maturation via decreasing H4K16 and α-tubulin acetylation. Cell Cycle. 2020 Feb;19(3):354-362.				



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[3]. Mostofa A, et al. Plasma cell dependence on histone/protein deacetylase 11 reveals a therapeutic target in multiple myeloma. JCI Insight. 2021;6(24):e151713. Published 2021 Dec 22.

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	3.1714 mL	15.8569 mL	31.7138 mL	79.2845 mL
	5 mM	0.6343 mL	3.1714 mL	6.3428 mL	15.8569 mL
	10 mM	0.3171 mL	1.5857 mL	3.1714 mL	7.9285 mL
	15 mM	0.2114 mL	1.0571 mL	2.1143 mL	5.2856 mL
	20 mM	0.1586 mL	0.7928 mL	1.5857 mL	3.9642 mL
	25 mM	0.1269 mL	0.6343 mL	1.2686 mL	3.1714 mL
	30 mM	0.1057 mL	0.5286 mL	1.0571 mL	2.6428 mL
	40 mM	0.0793 mL	0.3964 mL	0.7928 mL	1.9821 mL
	50 mM	0.0634 mL	0.3171 mL	0.6343 mL	1.5857 mL
	60 mM	0.0529 mL	0.2643 mL	0.5286 mL	1.3214 mL
	80 mM	0.0396 mL	0.1982 mL	0.3964 mL	0.9911 mL
	100 mM	0.0317 mL	0.1586 mL	0.3171 mL	0.7928 mL