



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: shyysw@sina.com

产品名称: **CAY10433**
产品别名: **BML-210**

生物活性:				
Description	BML-210 is a novel HDAC inhibitor, and its mechanism of action has not been characterized. IC50 value: 5 μ M[1] Target: HDAC4 In vitro: Cell cycle analysis indicated that HeLa cell treatment with 20 and 30 μ M concentration of BML-210 increased the proportion of cells in G0/G1 phase, and caused accumulation in subG1, indicating that the cells are undergoing apoptosis[2]. BML-210 inhibits the growth of NB4 cells in dose- and time-dependent manner[3]. In vivo:			
IC ₅₀ & Target	HDAC4:MEF2			
Solvent&Solubility	In Vitro: DMSO : ≥ 30 mg/mL (88.38 mM) <small>* "\geq" means soluble, but saturation unknown.</small>			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	2.9461 mL	14.7306 mL
	Stock Solutions	5 mM	0.5892 mL	2.9461 mL
		10 mM	0.2946 mL	1.4731 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。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.37 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。				
References	[1]. Nimanthi Jayathilaka, et al. Inhibition of the function of class IIa HDACs by blocking their interaction with MEF2. Nucleic Acids Res. 2012 Jul; 40(12): 5378–5388. [2]. Veronika V. Borutinskaite, et al. Histone deacetylase inhibitor BML-210 induces growth inhibition and apoptosis and regulates HDAC and DAPC complex expression levels in cervical cancer cells. Mol Biol Rep (2012) 39:10179–10186			



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: shyysw@sina.com

[3]. Veronika Borutinskaite, et al. The Histone Deacetylase Inhibitor BML-210 Influences Gene and Protein Expression in Human Promyelocytic Leukemia NB4 Cells via Epigenetic Reprogramming. Int J Mol Sci. 2015 Aug; 16(8): 18252–18269.



源叶生物