



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: **FX1**
产品别名: **FX1**

生物活性:						
Description		FX1 is a potent and specific BCL6 inhibitor, with an IC ₅₀ of around 35 μM.				
IC ₅₀ & Target		IC50: ~35 μM (BCL6) ^[1]				
In Vitro		DLBCL cells are exposed to 50 μM FX1 for 30 minutes. FX1 profoundly reduces recruitment of BCOR and SMRT to all 3 BCL6 target genes, but not at a negative control locus. There is little presence of SMRT at these loci in the BCL6-negative DLBCL cell line, which is not affected by FX1. The superior potency of FX1 versus 79-6 in disrupting BCL6 binding to SMRT is evident when these small molecules are compared head to head in quantitative ChIP assays in DLBCL cells after treatment with 50 μM FX1 for 6 hours. DLBCL cells are exposed to FX1 and mRNA is collect at 4 serial time points. FX1 almost invariably induces significant derepression of these genes as compare with vehicle in 2 independent DLBCL cell lines ^[1] .				
In Vivo		Spleens in FX1-treating mice are macroscopically indistinguishable from vehicle controls. Total B cell abundance measured by flow cytometry is unaffected by FX1. GC B cells (GL7*FAS*B220*) are significantly depleted by exposure to FX1. Splenic architecture is examined by IHC. Staining with B220 antibody reveals normal B cell follicular structures, whereas staining for the GC B cell-specific marker peanut agglutinin shows profound loss of GCs. The half-life is estimated to be approximately 12 hours. Finally, whether FX1 can induce toxic effects in mice is assessed. No signs of toxicity, inflammation, or infection are evident from H&E-stained sections of lung, gastrointestinal tract, heart, kidney, liver, spleen, and bone marrow of the fixed organs from mice treated with FX1 compare with vehicle ^[1] .				
Solvent&Solubility		In Vitro:				
		DMSO : 30 mg/mL (81.34 mM; Need ultrasonic)				
			Solvent / Mass Concentration	1 mg	5 mg	10 mg
		Preparing	1 mM	2.7113 mL	13.5567 mL	27.1135 mL
		Stock Solutions	5 mM	0.5423 mL	2.7113 mL	5.4227 mL
			10 mM	0.2711 mL	1.3557 mL	2.7113 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℃，6 months；-20℃，1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References		[1]. Mariano G et al. Rationally designed BCL6 inhibitors target activated B cell diffuse large B cell lymphoma. J Clin Invest. 2016 Sep 1; 126(9): 3351–3362.				
实验参考:						
		Cell viability is determined with the fluorescent redox dye. Fluorescence is determined for 3 replicates per treatment condition or vehicle with the microplate reader. Cell viability of the drug-treated cells is normalized to their vehicle-treated controls, and the results are expressed as percentage viability. The drug effect as 100-percentage viability is calculated. Through dose-effect				



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Cell Assay	curves the drug concentration that inhibits the growth of cell lines by 50% compare with vehicle (GI_{50}) is determined. Experiments are performed in triplicate. For combination treatments, cells are exposed to a dose curve of each drug alone or their combination in constant ratio, and cell viability is determined. To compare different schedules of treatments, the cells are treated in triplicate as follows: FX1 and doxorubicin simultaneously and cells treated for 48 hours; FX1 first and 24 hours after doxorubicin is added and treats for an extra 48 hours; doxorubicin first and 24 hours after FX1 is added and treats for an extra 48 hours. Then, the software is used to plot dose-effect curves and calculate the dose-reduction index ^[1] .
Animal Administration	Six-to 8-week-old male mice are injected s.c. with 10^7 low-passage human SUDHL-6, OCI-Ly7, or Toledo cells. Alternatively, 6-to 8-week-old mice are injected with low-passage HBL-1 cells. When tumors reach a palpable size (approximately 100 mm^3), mice are assigned in a randomized way to treatment groups and treated i.p. with 25 or 50 mg/kg/d of the drugs (including FX1). Drugs are reconstituted in PEG-400 and stored at -20°C until use. Tumor size is measured 3 times a week with an electronic digital caliper in 2 dimensions, and then tumor volume is calculated ^[1] .
References	[1]. Mariano G et al. Rationally designed BCL6 inhibitors target activated B cell diffuse large B cell lymphoma. J Clin Invest. 2016 Sep 1; 126(9): 3351–3362.

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