

产品名称：**2-[8-[(2-苯并噻唑基氨基)羰基]-3,4-二氢-2(1H)-异喹啉基]-5-[3-[4-[3-(二甲基氨基)-1-丙炔-1-基]-2-氟苯氧基]丙基]-4-噻唑羧酸**  
产品别名：**A-1155463**

生物活性:					
Description	A-1155463 is a highly potent and selective BCL-XL inhibitor with an EC50 of 70 nM in Molt-4 cell.				
IC50 & Target	Bcl-xL	Bcl-2			
	0.01 nM (Ki)	80 nM (Ki)			
In Vitro	A-1155463 shows picomolar binding affinity to BCL-XL (Ki<0.01 nM), and >1000-fold weaker binding to BCL-2 (Ki= 80 nM) and related proteins BCL-W (Ki= 19 nM) and MCL-1 (Ki> 440 nM) [2]. A-1155463 demonstrates strong growth inhibition of over half of the colorectal cell lines as defined by EC50 values ≤ 0.5 μM in the presence of 10 % FBS[3].				
In Vivo	A-1155463 caused a mechanism-based and reversible thrombocytopenia in mice and inhibited H146 small cell lung cancer xenograft tumor growth in vivo following multiple doses[2].				
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : 50 mg/mL (74.65 mM; Need ultrasonic)</b> <b>H2O : &lt; 0.1 mg/mL (insoluble)</b>				
	Preparing Stock Solutions	<div>Solvent / Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	1.4930 mL	7.4650 mL	14.9301 mL
		5 mM	0.2986 mL	1.4930 mL	2.9860 mL
		10 mM	0.1493 mL	0.7465 mL	1.4930 mL
	<p>*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。</p> <p>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。</p> <p><b>In Vivo:</b></p> <p>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 <b>In Vitro</b> 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——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</p>				
	1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (3.73 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.73 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。				
	2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.73 mM); Suspended solution; Need ultrasonic 此方案可获得 2.5 mg/mL (3.73 mM)的均匀悬浊液，悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。				

	<p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (3.73 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (3.73 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。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
References	<p>[1]. <a href="#">Leverson JD, et al. Exploiting selective BCL-2 family inhibitors to dissect cell survival dependencies and define improved strategies for cancer therapy. Sci Transl Med. 2015 Mar 18;7(279):279</a></p> <p>[2]. <a href="#">Tao ZF, et al. Discovery of a Potent and Selective BCL-XL Inhibitor with in Vivo Activity. ACS Med Chem Lett. 2014 Aug 26;5(10):1088-93.</a></p> <p>[3]. <a href="#">Zhang H, et al. Genomic analysis and selective small molecule inhibition identifies BCL-X(L) as a critical survival factor in a subset of colorectal cancer. Mol Cancer. 2015 Jul 2;14:126.</a></p>
实验参考:	
Animal Administration	<p>Mice: Following a single 5 mg/kg IP dose of A-1155463 in nontumor bearing SCID-Beige mice, platelet counts fell dramatically as measured at 6 h postdose and then rebounded to normal levels within 72 h. A-1155463 is then administered to SCID-Beige mice that had been inoculated with BCL-XL-dependent H146 tumor cells with a daily dose at 5 mg/kg IP for 14 days[2].</p>
References	<p>[1]. <a href="#">Leverson JD, et al. Exploiting selective BCL-2 family inhibitors to dissect cell survival dependencies and define improved strategies for cancer therapy. Sci Transl Med. 2015 Mar 18;7(279):279</a></p> <p>[2]. <a href="#">Tao ZF, et al. Discovery of a Potent and Selective BCL-XL Inhibitor with in Vivo Activity. ACS Med Chem Lett. 2014 Aug 26;5(10):1088-93.</a></p> <p>[3]. <a href="#">Zhang H, et al. Genomic analysis and selective small molecule inhibition identifies BCL-X(L) as a critical survival factor in a subset of colorectal cancer. Mol Cancer. 2015 Jul 2;14:126.</a></p>

源叶生物