



上海源叶生物科技有限公司
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产品名称: **BVT 2733**
产品别名: **BVT 2733**

生物活性:																					
Description	BVT 2733 is a new, small molecule, non-steroidal, isoform-selective inhibitor of 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1). IC50 value: Target: 11 β -HSD1 inhibitor in vitro: in vivo: BVT 2733 lowered hepatic PEPCK and glucose-6-phosphatase mRNA, blood glucose and serum insulin concentrations compared with vehicle treated mice [1]. CIA mice were treated with BVT-2733 (100 mg/kg, orally) or vehicle twice daily for 2 weeks. BVT-2733 treatment attenuated the arthritis severity and anti-CII level in CIA mice. BVT-2733 also decreased the levels of serum TNF- α , IL-1 β , IL-6 and IL-17. BVT-2733 treatment also significantly reduced synovial inflammation and joint destruction [2]. Mice receiving BVT 2733 treatment exhibited decreased body weight and enhanced glucose tolerance and insulin sensitivity compared to control mice. BVT 2733 also down-regulated the expression of inflammation-related genes including monocyte chemoattractant protein 1 (MCP-1), tumor necrosis factor alpha (TNF- α) and the number of infiltrated macrophages within the adipose tissue in vivo [3].																				
	<p>In Vitro:</p> <p>DMSO : 50 mg/mL (116.56 mM; Need ultrasonic)</p> <table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>SolventMassConcentration</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>2.3312 mL</td><td>11.6561 mL</td><td>23.3122 mL</td></tr><tr><td>5 mM</td><td>0.4662 mL</td><td>2.3312 mL</td><td>4.6624 mL</td></tr><tr><td>10 mM</td><td>0.2331 mL</td><td>1.1656 mL</td><td>2.3312 mL</td></tr></table> <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°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。</p> <p>In Vivo:</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 In Vitro 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> <p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 2.5 mg/mL (5.83 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.83 mM, 饱和度未知) 的澄清溶液。</p> <p>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。</p> <p>2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)</p> <p>Solubility: ≥ 2.5 mg/mL (5.83 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.83 mM, 饱和度未知) 的澄清溶液。</p>					Preparing Stock Solutions	<div>SolventMassConcentration</div>	1 mg	5 mg	10 mg	1 mM	2.3312 mL	11.6561 mL	23.3122 mL	5 mM	0.4662 mL	2.3312 mL	4.6624 mL	10 mM	0.2331 mL	1.1656 mL
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	<p>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> <p>3. 请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: \geq 2.5 mg/mL (5.83 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (5.83 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 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Alberts P, et al. Selective inhibition of 11β-hydroxysteroid dehydrogenase type 1 decreases blood glucose concentrations in hyperglycaemic mice. <i>Diabetologia</i>. 2002 Nov;45(11):1528-32.</p> <p>[2]. Zhang L, et al. 11β-Hydroxysteroid dehydrogenase 1 inhibition attenuates collagen-induced arthritis. <i>Int Immunopharmacol</i>. 2013 Nov;17(3):489-94.</p> <p>[3]. Wang L, et al. BVT.2733, a selective 11β-hydroxysteroid dehydrogenase type 1 inhibitor, attenuates obesity and inflammation in diet-induced obese mice. <i>PLoS One</i>. 2012;7(7):e40056.</p>

源叶生物