



上海源叶生物科技有限公司
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产品名称: **WAY-262611**
产品别名: **WAY-262611**

生物活性:				
Description	WAY-262611 is a wingless β -Catenin agonist that increases bone formation rate with an EC50 of 0.63 μ M in TCF-Luciferase assay.			
IC ₅₀ & Target	EC50: 0.63 μ M (β -Catenin)[1]			
In Vitro	WAY-262611 has the most potent activity in the primary assay, low kinase inhibition potential, and high solubility[1].			
In Vivo	WAY-262611 has excellent pharmacokinetic properties and shows a dose dependent increase in the trabecular bone formation rate in ovariectomized rats following oral administration. Calvariae from wt mice treated with WAY-262611 shows statistically increased BFR, while similarly treated KO animals are no different from control. This indicates that WAY-262611 is acting via the Wnt β -catenin pathway and most likely through inhibition of Dkk-1[1].			
Solvent&Solubility	In Vitro: DMSO : $\geq$ 42 mg/mL (131.90 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent	Mass	
		Concentration		
			1 mg	5 mg
				10 mg
		1 mM	3.1405 mL	15.7025 mL
		5 mM	0.6281 mL	3.1405 mL
		10 mM	0.3141 mL	1.5703 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→40% PEG300 →5% Tween-80 → 45% saline Solubility: $\geq$ 1.67 mg/mL (5.24 mM); Clear solution 此方案可获得 $\geq$ 1.67 mg/mL (5.24 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 16.699999 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀; 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 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: $\geq$ 1.67 mg/mL (5.24 mM); Clear solution 此方案可获得 $\geq$ 1.67 mg/mL (5.24 mM, 饱和度未知) 的澄清溶液。			



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	以 1 mL 工作液为例, 取 100 μL 16.699999 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。 3.请依序添加每种溶剂: 10% DMSO $\rightarrow$90% corn oil Solubility: $\geq$ 1.67 mg/mL (5.24 mM); Clear solution 此方案可获得 $\geq$ 1.67 mg/mL (5.24 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 μL 16.699999 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Pelletier JC, et al. (1-(4-(Naphthalen-2-yl)pyrimidin-2-yl)piperidin-4-yl)methanamine: a wingless beta-catenin agonist that increases bone formation rate. J Med Chem. 2009 Nov 26;52(22):6962-5.
实验参考:	
Animal Administration	Rats: WAY-262611 is dissolved in DMSO and diluted with saline for iv (Rats). WAY-262611 is prepared in 0.5% methylcellulose/2% Tween-80 for po OVX rats14 are treated orally with 5 (po, vehicle=0.5% methylcellulose/2% Tween-80, qd, 28 days) at four doses. Trabecular bone formation rate (BFR) in the tibia is established in all dose groups at the end of the in-life portion of the study. A clear dose response and activity as low as 0.3 mg/kg/day are observed[1]. Mice: To confirm activity via the Wnt pathway, the calvariae of wild type (wt) and Dkk-1 knockout (KO) mice are treated with 5 once a day for 7 days (DMSO solution, sc injection). The KO animals are not expected to respond because of the inherent inability to inhibit a missing target protein, while wild type animals with fully expressed Dkk-1 are expected to show a pharmacological response [1].
References	[1]. Pelletier JC, et al. (1-(4-(Naphthalen-2-yl)pyrimidin-2-yl)piperidin-4-yl)methanamine: a wingless beta-catenin agonist that increases bone formation rate. J Med Chem. 2009 Nov 26;52(22):6962-5.

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