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产品名称: TPO agonist 1
产品别名: TPO agonist 1

生物活性:				
Description	TPO agonist 1 is a thrombopoietin (TPO) agonist extracted from patent WO2008134338A1, compound TPO mimetic. It would be useful as promoters of thrombopoiesis and megakaryocytopoiesis to treat thrombocytopenia[1]			
IC ₅₀ & Target	TPO receptor[1]			
In Vivo	The thrombopoietin (TPO) receptor agonists are novel treatments for patients with chronic ITP aimed at increasing platelet production through interactions with the TPO receptor on megakaryocytes, and can increase platelet counts, decrease bleeding events and reduce the need for adjunctive or rescue treatments. The TPO receptor agonists are well-tolerated, though uncertainty remains regarding the risk of thromboembolism and bone marrow fibrosis[2].			
Solvent&Solubility	In Vitro: DMSO : ≥ 36 mg/mL (77.17 mM) H ₂ O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	2.1437 mL	10.7183 mL
	Stock Solutions	5 mM	0.4287 mL	2.1437 mL
		10 mM	0.2144 mL	1.0718 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: ≥ 2 mg/mL (4.29 mM); Clear solution 此方案可获得 ≥ 2 mg/mL (4.29 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 20.0 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: 2 mg/mL (4.29 mM); Suspended solution; Need ultrasonic 此方案可获得 2 mg/mL (4.29 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。			



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	以 1 mL 工作液为例, 取 100 μ L 20.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 20% 的 SBE- β -CD 生理盐水溶液中, 混合均匀。
References	<p>[1]. Jerome Francis Hayes. Novel processes of making hydroxy-1-azo-derivatives as tpo mimetics. 6 November 2008. WO2008134338A1.</p> <p>[2]. Siegal D et al. Thrombopoietin receptor agonists in primary immune thrombocytopenia. et al. Semin Hematol. 2013 Jan;50 Suppl 1:S18-21</p>



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