



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: **MRE-269**
产品别名: **ACT-333679**

生物活性:				
Description	MRE-269 is an active metabolite of selexipag, and acts as a selective IP receptor agonist.			
IC ₅₀ & Target	IP Receptor			
In Vitro	MRE-269 induces endothelium-independent vasodilation of rat extralobar pulmonary artery (EPA). MRE-269 or other IP receptor agonists including epoprostenol, iloprost, treprostinil and beraprost increase cAMP levels in hPASMC[1]. MRE-269 induces concentration-dependent vasodilation in LPA(+), LPA(-), and SPA(-)[3].			
In Vivo	The vasorelaxant effects of MRE-269 on rat small intralobar pulmonary artery (SIPA) and EPA are the same, while the other IP receptor agonists induce less vasodilation in SIPA than in EPA[1]. MRE-269 produces substantial relaxation of rat small pulmonary artery, although its effects are only significant at high concentrations of above 10 μ M (pEC ₅₀ , 4.98 $\pm$ 0.22). By contrast, in rat small pulmonary veins, MRE-269 only produces minimal relaxation over the whole concentration range, with only significant relaxation occurring at the two highest doses of MRE-269 of 10 and 100 μ M[2].			
Solvent&Solubility	In Vitro: DMSO : $\geq$ 50 mg/mL (119.18 mM) H ₂ O : < 0.1 mg/mL (insoluble) * ">" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	2.3837 mL	11.9184 mL
	Stock Solutions	5 mM	0.4767 mL	2.3837 mL
		10 mM	0.2384 mL	1.1918 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: $\geq$ 2.5 mg/mL (5.96 mM); Clear solution 此方案可获得 $\geq$ 2.5 mg/mL (5.96 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 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。				



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

	2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.96 mM); Suspended solution; Need ultrasonic and warming 此方案可获得 2.5 mg/mL (5.96 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 生理盐水溶液中, 混合均匀。 3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.96 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 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Fuchikami C, et al. A comparison of vasodilation mode among selezipag (NS-304; 2-{4-[(5,6-diphenylpyrazin-2-yl)(isopropyl)amino]butoxy}-N-(methylsulfonyl)acetamide)), its active metabolite MRE-269 and various prostacyclin receptor agonists in rat, porcine [2]. Orie NN, et al. Differential actions of the prostacyclin analogues treprostinil and iloprost and the selezipag metabolite, MRE-269 (ACT-333679) in rat small pulmonary arteries and veins. Prostaglandins Other Lipid Mediat. 2013 Oct;106:1-7 [3]. Kuwano K, et al. A long-acting and highly selective prostacyclin receptor agonist prodrug, 2-{4-[(5,6-diphenylpyrazin-2-yl)(isopropyl)amino]butoxy}-N-(methylsulfonyl)acetamide (NS-304), ameliorates rat pulmonary hypertension with unique relaxant responses

源叶生物