



上海源叶生物科技有限公司
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产品名称: **GSK2981278**

产品别名: **GSK2981278**

生物活性:

Description	GSK2981278 is a potent and selective ROR γ inverse agonist. GSK2981278 inhibits activation of the <i>il17</i> promoter and interferes ROR γ -DNA binding ^[1] .																								
IC₅₀ & Target	ROR γ ^[1]																								
In Vitro	GSK2981278 markedly and potently inhibits IL-17A and IL-22 protein secretion in a concentration dependent manner (IC ₅₀ = 3.2 nM) during 5 days of culture under Th17 skewing conditions ^[1] . GSK2981278 (0.3, 1, 3, 10, 30, 100, 300, 1000 pM; 5 day) potently and selectively inhibits IL-17 and IL-22 levels. Culture in the presence of \geq 3 nM GSK2981278 led to a near-complete inhibition of IL-17A protein secretion ^[1] .																								
In Vivo	GSK2981278 (1% in ointment; topically; for three days) reduces skin redness and scaling, as well as decreased hyperplasia, as evidenced by a 23% reduction in epidermal thickness. GSK2981278 attenuates inflammation in a mouse model of psoriasis ^[1] . Animal Model: BALB/c JByRj Female Mice (8 week-old at study initiation; imiquimod (IMQ) mouse model) [1] Dosage: 1% Administration: In ointment; topically; for three days Result: Reduced skin redness and scaling, as well as decreased hyperplasia, as evidenced by a 23% reduction in epidermal thickness.																								
Solvent&Solubility	<p>In Vitro: DMSO : \geq 100 mg/mL (216.63 mM) * "\geq" means soluble, but saturation unknown.</p> <table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent \ Mass</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr><tr><th>Concentration</th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1 mM</td><td>2.1663 mL</td><td>10.8317 mL</td><td>21.6633 mL</td></tr><tr><td>5 mM</td><td>0.4333 mL</td><td>2.1663 mL</td><td>4.3327 mL</td></tr><tr><td>10 mM</td><td>0.2166 mL</td><td>1.0832 mL</td><td>2.1663 mL</td></tr></tbody></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: \geq 2.5 mg/mL (5.42 mM); Clear solution</p>				Preparing Stock Solutions	Solvent \ Mass	1 mg	5 mg	10 mg	Concentration				1 mM	2.1663 mL	10.8317 mL	21.6633 mL	5 mM	0.4333 mL	2.1663 mL	4.3327 mL	10 mM	0.2166 mL	1.0832 mL	2.1663 mL
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	<p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (5.42 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: $\geq 2.5 \text{ mg/mL}$ (5.42 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (5.42 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 900 μL 20% 的 SBE-β-CD 生理盐水溶液中, 混合均匀。</p> <p>3. 请依序添加每种溶剂: 10% DMSO → 90% corn oil</p> <p>Solubility: $\geq 2.5 \text{ mg/mL}$ (5.42 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (5.42 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	[1]. Smith SH, et al. Development of a Topical Treatment for Psoriasis Targeting ROR γ T: From Bench to Skin. PLoS One. 2016 Feb 12;11(2):e0147979.



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