



上海源叶生物科技有限公司
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产品名称: 罗汉松酸

产品别名: Podocarpic acid

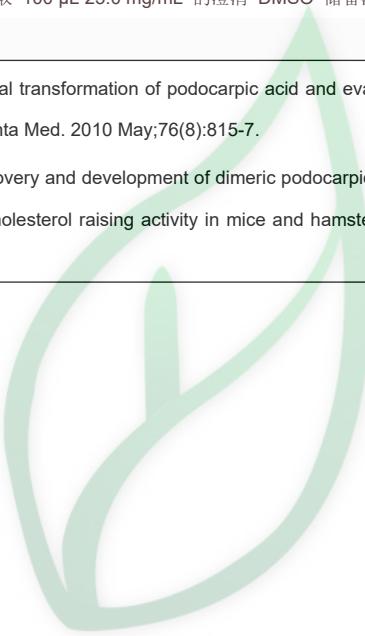
生物活性:

Description	Podocarpic acid is a natural product, which has the best all-round positive effect and acts as a novel TRPA1 activator.																												
In Vitro	Podocarpic acid anhydride acts as a 1 nM agonist of LXRA and beta receptors. It shows over 8-10-fold better activator of LXR receptors compared to one of the natural ligands, 22-(R)-hydroxy cholesterol, in HEK-293 cells[2].																												
In Vivo	Podocarpic acid activates SKN-1 in C. elegans, similar to known Nrf2 activators such as α-lipoic acid (LA). Podocarpic acid- or LA-induced SKN-1 activation also requires TRPodocarpic acid-1: trPodocarpic acid-1 knockdown in glod-4:gst-4p::gfp animals reduces expression of gst-4 to wild-type levels. A and LA supplementation results in a robust Ca ²⁺ flux, which is significantly reduced when the Ca ²⁺ -impermeable TRPodocarpic acid-1E1018A channel is present, suggesting that TRPodocarpic acid-1 activation is key for these drugs' function. Finally, Podocarpic acid and LA alleviate the Podocarpic acidthogenic phenotypes of glod-4 animals by reverting the high endogenous MGO and GO to almost wild-type-like levels[1].																												
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : ≥ 100 mg/mL (364.50 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p> <table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent</th><th>Mass</th><th>Concentration</th><th></th></tr><tr><th></th><th>1 mg</th><th></th><th>5 mg</th><th>10 mg</th></tr></thead><tbody><tr><th>1 mM</th><td>3.6450 mL</td><td></td><td>18.2249 mL</td><td>36.4498 mL</td></tr><tr><th>5 mM</th><td>0.7290 mL</td><td></td><td>3.6450 mL</td><td>7.2900 mL</td></tr><tr><th>10 mM</th><td>0.3645 mL</td><td></td><td>1.8225 mL</td><td>3.6450 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: ≥ 2.5 mg/mL (9.11 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (9.11 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>				Preparing Stock Solutions	Solvent	Mass	Concentration			1 mg		5 mg	10 mg	1 mM	3.6450 mL		18.2249 mL	36.4498 mL	5 mM	0.7290 mL		3.6450 mL	7.2900 mL	10 mM	0.3645 mL		1.8225 mL	3.6450 mL
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References	[1]. Baraka HN. Microbial transformation of podocarpic acid and evaluation of transformation products for antioxidant activity. <i>Planta Med.</i> 2010 May;76(8):815-7. [2]. Singh S, et al. Discovery and development of dimeric podocarpic acid leads as potent agonists of liver X receptor with HDL cholesterol raising activity in mice and hamsters. <i>Bioorg Med Chem Lett.</i> 2005 Jun 2;15(11):2824-8.



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