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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 LXRalpha 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 reduces 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	***In Vitro:*** **DMSO： ≥ 100 mg/mL (364.50 mM)** * "≥" means soluble, but saturation unknown.

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

*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: ≥ 2.5 mg/mL (9.11 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (9.11 mM，饱和度未知) 的澄清溶液。

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。

2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)

	Solubility: ≥ 2.5 mg/mL (9.11 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (9.11 mM，饱和度未知) 的澄清溶液。 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 (9.11 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (9.11 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]. Baraka HN. Microbial transformation of podocarpic acid and evaluation of transformation products for antioxidant activity. Planta Med. 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. Bioorg Med Chem Lett. 2005 Jun 2;15(11):2824-8.