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产品名称：CAY10650
产品别名：CAY10650

生物活性：

Description

CAY10650 is a highly potent cytosolic phospholipase A2α (cPLA2α) inhibitor with an IC50 value of 12 nM. IC50 value: 12 nM Target: cPLA2 CAY10650 is a highly potent (IC50 = 12 nM) cPLA2α inhibitor. It demonstrates strong anti-inflammatory effects when applied topically at a dose of 0.1 mg/ear in a mouse model of acute irritant contact dermatitis. Chinese hamsters (n = 6/group) were infected with parasite-laden contact lenses and treated with cPLA2α inhibitors (AACOCF3 and CAY10650) 50 μg/5 μl was injected with topical eye-drop under the contact lens of an infected cornea three times a day for 6 days and topically on days 7–14 postinfection. Animals were anesthetized and sacrificed 15 days after application of cPLA2α inhibitors. Treatment with the AACOCF3 and CAY10650 had a profound effect on the severity and chronicity of keratitis. In addition, hamsters treated with AACOCF3 had significantly less severe keratitis as compared with CAY10650 group.

Solvent&Solubility

In Vitro:

DMSO : ≥ 43 mg/mL (91.20 mM)

* "≥" means soluble, but saturation unknown.

	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1209 mL	10.6045 mL	21.2089 mL
	5 mM	0.4242 mL	2.1209 mL	4.2418 mL
	10 mM	0.2121 mL	1.0604 mL	2.1209 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 (5.30 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (5.30 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 (5.30 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (5.30 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 (5.30 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.30 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]. Tripathi T, et al. Role of phospholipase A 2(PLA2) inhibitors in attenuating apoptosis of the corneal epithelial cells and mitigation of Acanthamoeba keratitis. Exp Eye Res. 2013 Aug;113:182-91.