



上海源叶生物科技有限公司
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产品名称: **GR79236**
产品别名: **GR79236**

生物活性:

Description

GR79236 is a highly potent and selective adenosine A1 receptor agonist ($K_i = 3.1$ nM) that has analgesic and anti-inflammatory actions in humans and animals. IC_{50} value: 3.1 nM(K_i) Target: adenosine A1 receptor in vitro: GR79236 is a highly potent and selective A1-receptor agonist that is originally developed for the treatment of Type 2 diabetes mellitus, as a cardioprotective agent and also for peripheral arterial occlusive diseases. in vivo: GR79236 has also been shown to have antinociceptive and anti-inflammatory properties in animal models. GR79236 inhibits the release of CGRP evoked by superior sagittal sinus (SSS) stimulation in the cat and inhibits trigeminal nucleus firing in the cat and rat. GR79236X has acute, short-term analgesic efficacy.

Solvent&Solubility

In Vitro:

H₂O : 100 mg/mL (284.61 mM; Need ultrasonic)

DMSO : ≥ 100 mg/mL (284.61 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing	1 mM		2.8461 mL	14.2304 mL	28.4608 mL
Stock Solutions	5 mM		0.5692 mL	2.8461 mL	5.6922 mL
	10 mM		0.2846 mL	1.4230 mL	2.8461 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 (7.12 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (7.12 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。

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

Solubility: ≥ 2.5 mg/mL (7.12 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (7.12 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 900 μ L 20% 的 SBE- β -CD 生理



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	<p>盐水水溶液中，混合均匀。</p> <p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (7.12 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (7.12 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	<p>[1]. Sneyd JR, et al. Multicentre evaluation of the adenosine agonist GR79236X in patients with dental pain after third molar extraction. Br J Anaesth. 2007 May;98(5):672-676.</p> <p>[2]. Arulmani U, et al. Lack of effect of the adenosine A1 receptor agonist, GR79236, on capsaicin-induced CGRP release in anaesthetized pigs. Cephalalgia. 2005 Nov;25(11):1082-90.</p>

源叶生物