



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 法罗培南酯

产品别名: Faropenem daloxate; Faropenem medoxil

生物活性:

Description

Faropenem daloxate is the first oral penem in a new class of beta-lactam antibiotics. IC50 Value: Target: Antibacterial Faropenem daloxate is useful for penem and antibiotics. Faropenem medoxomil has excellent in vitro activity against Streptococcus pneumoniae, Haemophilus influenzae and other key pathogens implicated in acute bacterial rhinosinusitis. Clinical studies have demonstrated that, in the treatment of acute bacterial rhinosinusitis in adults, 7 days of treatment with faropenem medoxomil is as clinically and bacteriologically effective as 10 days of treatment with cefuroxime axetil. One study showed faropenem medoxomil to be superior to cefuroxime axetil. Overall, the safety profile of faropenem medoxomil is similar to that of most comparators.

In Vitro:

DMSO : ≥ 100 mg/mL (251.64 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.5164 mL	12.5818 mL	25.1636 mL
	5 mM		0.5033 mL	2.5164 mL	5.0327 mL
	10 mM		0.2516 mL	1.2582 mL	2.5164 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 (6.29 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (6.29 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 (6.29 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (6.29 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 生理盐水溶液中,混合均匀。



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.29 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]. Faqi AS, Lanphear C, Gill S, Colagiovanni DB. Juvenile toxicity study of faropenem medoxomil in beagle puppies. <i>Reprod Toxicol</i>. 2010 Dec;30(4):619-24. Epub 2010 Aug 11. [2]. Hadley JA, Tillotson GS, Tosiello R, Echols RM. Faropenem medoxomil: a treatment option in acute bacterial rhinosinusitis. <i>Expert Rev Anti Infect Ther</i>. 2006 Dec;4(6):923-37. [3]. Siegert R, Berg O, Gehanno P, Leiberman A, Martinkenas JL, Nikolaidis P, Arvis P, Alefelder M, Reimnitz P. Comparison of the efficacy and safety of faropenem daloxate and cefuroxime axetil for the treatment of acute bacterial maxillary sinusitis in adults. <i>Eur Arch Otorhinolaryngol</i>. 2003 Apr;260(4):186-94. Epub 2002 Oct 11. [4]. Upchurch J, Rosemore M, Tosiello R, Kowalsky S, Echols R. Randomized double-blind study comparing 7- and 10-day regimens of faropenem medoxomil with a 10-day cefuroxime axetil regimen for treatment of acute bacterial sinusitis. <i>Otolaryngol Head Neck Surg</i>. 2006 Oct;135(4):511-7. [5]. Gettig, Jacob P.; Crank, Christopher W.; Philbrik, Alexander H. Faropenem medoxomil. <i>Annals of Pharmacotherapy</i> (2008), 42(1), 80-90.

源叶生物