



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: **RSV604**
产品别名: **RSV604**

生物活性:				
Description	RSV604 is a novel inhibitor of respiratory syncytial virus replication($EC_{50}=0.86\text{ }\mu\text{M}$); a putative RSV nucleoprotein(N) inhibitor in phase 2 clinical trials. IC_{50} value: $0.86\text{ }\mu\text{M}(EC_{50})$ [1] Target: RSV inhibitor RSV604, a novel benzodiazepine with submicromolar anti-RSV activity. It proved to be equipotent against all clinical isolates tested of both the A and B subtypes of the virus. The compound has a low rate of in vitro resistance development. Sequencing revealed that the resistant virus had mutations within the nucleocapsid protein. This is a novel mechanism of action for anti-RSV compounds. In a three-dimensional human airway epithelial cell model, RSV604 was able to pass from the basolateral side of the epithelium effectively to inhibit virus replication after mucosal inoculation. RSV604, which is currently in phase II clinical trials, represents the first in a new class of RSV inhibitors and may have significant potential for the effective treatment of RSV disease.			
Solvent&Solubility	In Vitro: DMSO : 100 mg/mL (257.47 mM; Need ultrasonic)			
		Solvent / Mass / Concentration	1 mg	5 mg
	Preparing	1 mM	2.5747 mL	12.8737 mL
	Stock Solutions	5 mM	0.5149 mL	2.5747 mL
		10 mM	0.2575 mL	1.2874 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: $\geq 2.5\text{ mg/mL}$ (6.44 mM); Clear solution 此方案可获得 $\geq 2.5\text{ mg/mL}$ (6.44 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: $\geq 2.5\text{ mg/mL}$ (6.44 mM); Clear solution 此方案可获得 $\geq 2.5\text{ mg/mL}$ (6.44 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				



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

	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 (6.44 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.44 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]. Henderson EA, et al. 1,4-benzodiazepines as inhibitors of respiratory syncytial virus. The identification of a clinical candidate. J Med Chem. 2007 Apr 5;50(7):1685-92. [2]. Chapman J, et al. RSV604, a novel inhibitor of respiratory syncytial virus replication. Antimicrob Agents Chemother. 2007 Sep;51(9):3346-53. [3]. Challa S, et al. Mechanism of action for respiratory syncytial virus inhibitor RSV604. Antimicrob Agents Chemother. 2015 Feb;59(2):1080-7.

源叶生物