



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

Solvent&Solubility	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 (3.11 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.11 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% corn oil Solubility: ≥ 2.5 mg/mL (3.11 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (3.11 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]. Steven Harper , John A. McCauley , Michael T. Discovery of MK-5172, a Macrocyclic Hepatitis C Virus NS3/4a Protease Inhibitor. ACS Med. Chem. Lett., 2012, 3 (4), pp 332-336 [2]. Summa V, Ludmerer SW, McCauley JA, MK-5172, a selective inhibitor of hepatitis C virus NS3/4a protease with broad activity across genotypes and resistant variants. Antimicrob Agents Chemother. 2012 Aug;56(8):4161-7.
实验参考:	
Animal Administration	Rats and Dogs[1] Studies are performed in both rats and dogs. For studies in which Grazoprevir is dosed intravenously to rats or dogs, the compound is formulated in polyethylene glycol 200 (PEG200) and administered as a bolus at either 2 mg/kg of body weight (Rats) or 0.5 mg/kg (dog). For oral studies, the crystalline potassium salt of the compound is dosed as a solution in PEG400 at 5 mg/kg (Rats) or 1 mg/kg (dog). For all studies, blood samples are collected in EDTA-containing tubes at appropriate times and plasma is separated by centrifugation and stored at -70°C until analysis. Quantitation of Grazoprevir levels is conducted by high-performance liquid chromatography/mass spectroscopy (LC/MS/MS) following protein precipitation. Liver samples are obtained from rat studies at the termination of the experiment. For dog, liver biopsy samples (20 μL) are collected following sedation. Tissue samples are homogenized in four volumes of deionized water, and drug concentrations are determined by LC/MS/MS after protein precipitation.
References	[1]. Steven Harper , John A. McCauley , Michael T. Discovery of MK-5172, a Macrocyclic Hepatitis C Virus NS3/4a Protease Inhibitor. ACS Med. Chem. Lett., 2012, 3 (4), pp 332-336 [2]. Summa V, Ludmerer SW, McCauley JA, MK-5172, a selective inhibitor of hepatitis C virus NS3/4a protease with broad activity across genotypes and resistant variants. Antimicrob Agents Chemother. 2012 Aug;56(8):4161-7.