



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](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

产品名称: RO-9187

产品别名: RO-9187

生物活性:

Description	RO-9187 is a potent inhibitor of HCV virus replication with an IC50 of 171 nM.				
IC50 & Target	IC50: 171 nM (HCV)[1]				
In Vitro	RO-9187 is excellent substrates for deoxycytidine kinase and is phosphorylated with efficiencies up to 3-fold higher than deoxycytidine. RO-9187 inhibits RNA synthesis by HCV polymerases from either HCV genotypes 1a and 1b or containing S96T or S282T point mutations with similar potencies, suggesting no cross-resistance with either R1479 (4' -azidocytidine) or 2' -C-methyl nucleosides. The formation of RO-9187-TP increased in a time- and dose-dependent manner. The maximal triphosphate concentration at 24 h is 87 pmol/106 cells with half-maximal triphosphate formation achieved at 12 μM RO-9187[1].				
In Vivo	Plasma exposures of RO-9187 in rats increase in a dose-dependent manner between 10 and 2000 mg/kg after oral dosing. Plasma concentrations of 1.4 and 26 μM (390 and 7454 ng/mL) are achieved in rats and dogs at the 10 mg/kg dose level, respectively. Plasma concentrations up to 57 μM are achieved in rats dosed with 2000 mg/kg/day[1].				
Solvent&Solubility	In Vitro: H2O : 7.14 mg/mL (25.12 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg
		1 mM	3.5183 mL	17.5914 mL	35.1828 mL
		5 mM	0.7037 mL	3.5183 mL	7.0366 mL
		10 mM	0.3518 mL	1.7591 mL	3.5183 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用, -20℃ 储存时，请在 1 个月内使用。				
References	[1]. Klumpp K, et al. 2'-deoxy-4'-azido nucleoside analogs are highly potent inhibitors of hepatitis C virus replication despite the lack of 2'-alpha-hydroxyl groups. J Biol Chem. 2008 Jan 25;283(4):2167-75.				

实验参考:

Animal Administration	Rats: A 2-week oral range finding toxicity study is performed with RO-9187 and ribavirin in Hanover-Wistar rats. Five male and five female rats in each of five treatment groups are administered once daily doses of vehicle, 200, 600, or 2000 mg/kg RO-9187 or 200 mg/kg ribavirin by oral gavage for 14 days[1].
References	[1]. Klumpp K, et al. 2'-deoxy-4'-azido nucleoside analogs are highly potent inhibitors of hepatitis C virus replication despite the lack of 2'-alpha-hydroxyl groups. J Biol Chem. 2008 Jan 25;283(4):2167-75.