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产品名称：（R）-N-（2,3-二氢-1H-茚基）腺苷
产品别名：PD 117519；CI947

生物活性：

Description	PD 117519 (CI947) is an A_{2A} adenosine agonist which has shown oral antihypertensive activity in pharmacological animal models[1][2].	
IC_{50} & Target	A_{2A} adenosine[1]	
In Vivo	PD 117519 (2-10 mg/kg; oral administration; 16-24 hours; male beagle dogs) treatment produces significant hemodynamic changes at T_{max} (4 hours) follows by acute coronary vascular injury that is evident at 16 hours postdosing.Treatment with 2 or 10 mg/kg of PD 117519 produces significant increases in mean heart rate and decreases in mean indirectsystolic blood pressure at time of highest drug exposure, 4 hours postdosing[3].	
	Animal Model:	24 male beagle dogs (8-12 months old)[3]
	Dosage:	2 mg/kg or 10 mg/kg
	Administration:	Oral administration; 16 hours and 24 hours
	Result:	Increased in mean heart rate and decreased in mean indirectsystolic blood pressure at time of highest drug exposure. Induced acute coronary arteriopathy. The endothelium also appears injured.

Solvent&Solubility

In Vitro:

DMSO : ≥ 100 mg/mL (260.82 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6082 mL	13.0412 mL	26.0824 mL
	5 mM	0.5216 mL	2.6082 mL	5.2165 mL
	10 mM	0.2608 mL	1.3041 mL	2.6082 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→ 90% (20% SBE-β-CD in saline)

Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (6.52 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

	盐水水溶液中，混合均匀。 2.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.52 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.52 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]. Reynolds DL, et al. Liquid chromatographic analysis of the adenosine agonist PD 117519 in dog plasma. J Pharm Biomed Anal. 1991;9(4):345-9. [2]. Tobin GA, et al. The role of eNOS phosphorylation in causing drug-induced vascular injury. Toxicol Pathol. 2014 Jun;42(4):709-24. [3]. Enerson BE, et al. Acute drug-induced vascular injury in beagle dogs: pathology and correlating genomic expression. Toxicol Pathol. 2006;34(1):27-32.