



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: **IMR-1A**
产品别名: **IMR-1A**

生物活性:						
Description		IMR-1A, a acid metabolite of IMR-1, is a Notch inhibitors with an IC50 of 0.5 μM. IMR-1A has a 50-fold increase in potency with respect to IMR-1. IMR-1 can metabolize in vivo to IMR-1A[1].				
IC50 & Target		IC50: 0.5 μM (Notch)[1]				
In Vivo		IMR-1A (2 mg/kg (i.v.) and 100 mg/kg (i.p)) exhibits low systematic plasma clearance (CL = 7 mL/min/kg) with terminal elimination half-life (T1/2) of 2.22 h following a single i.v. administration. The normal liver blood flow in mice is 90 mL/min/kg and the Vss (volume of distribution) is ~4-fold. Plasma concentrations is quantifiable up to 24 h with Tmax of 0.50 h after i.p. administration[1].				
		Animal Model:	Male C57 BL/6 mice[1]			
		Dosage:	2 mg/kg (i.v.) and 100 mg/kg (i.p)			
		Administration:	I.v. and i.p.			
		Result:	Exhibited low systematic plasma clearance (CL = 7 mL/min/kg) with terminal elimination half-life (T1/2) of 2.22 h following a single i.v. administration and plasma concentrations is quantifiable up to 24 h with Tmax of 0.50 h after i.p. administration.			
Solvent&Solubility		In Vitro:				
		DMSO : 2 mg/mL (6.15 mM; Need ultrasonic)				
		Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
			1 mM	3.0735 mL	15.3676 mL	30.7352 mL
			5 mM	0.6147 mL	3.0735 mL	6.1470 mL
			10 mM	---	---	---
<p>*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。</p> <p>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。</p>						
References		[1]. Astudillo L et al. The Small Molecule IMR-1 Inhibits the Notch Transcriptional Activation Complex to Suppress Tumorigenesis. Cancer Res. 2016 Jun 15;76(12):3593-603.				