



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: TCS PIM-1 1
产品别名: SC 204330

生物活性:				
Description	TCS PIM-1 1 (SC 204330) is a potent, selective and ATP-competitive Pim-1 kinase inhibitor with an IC ₅₀ of 50 nM, displays good selectivity over Pim-2 and MEK1/MEK2 (IC ₅₀ s >20000 nM)[1].			
IC ₅₀ & Target	PIM1			
	50 nM (IC ₅₀)			
In Vitro	TCS PIM-1 1 (compound 1), a substituted pyridone scaffold, binds convincingly within the ATP-binding site of Pim-1 suggesting an ATP-competitive inhibitory mechanism. Preliminary data further suggests that TCS PIM-1 1 lacked in vitro inhibitory activity toward related serine/threonine kinases Pim-2 and MEK1/2. Hence, small molecules similar to TCS PIM-1 1 may serve as useful starting scaffolds for the development of other improved yet selective Pim-1 inhibitors. TCS PIM-1 1 serves both as a starting point for SAR chemical syntheses and was used for co-crystallization with Pim-1 protein[1].			
Solvent&Solubility	In Vitro: DMSO : ≥ 52 mg/mL (141.61 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg
		1 mM	2.7233 mL	13.6166 mL
		5 mM	0.5447 mL	2.7233 mL
		10 mM	0.2723 mL	1.3617 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: 1.TCS PIM-1 1 is dissolved in 0.5% DMSO[2].			
References	[1]. Cheney IW, et al. Identification and structure-activity relationships of substituted pyridones as inhibitors of Pim-1 kinase. Bioorg Med Chem Lett. 2007 Mar 15;17(6):1679-83.			