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产品名称: **STAT5-IN-1**
产品别名: **STAT5-IN-1**

生物活性:				
Description	STAT5-IN-1 is a STAT5 inhibitor with an IC ₅₀ of 47 μM for STAT5β isoform.			
IC₅₀ & Target	STAT5β			
	47 μM (IC ₅₀)			
In Vitro	The signal transducer and activator of transcription 5 (STAT5) is a member of the STAT family of proteins, implicated in cell growth and differentiation. STAT5-IN-1 inhibits STAT5 by binding to the SH2 domain. The functions of the SH2 domains of STAT3, STAT1, and of the tyrosine kinase Lck are inhibited to a lesser extent (IC ₅₀ >500 μM). STAT5-IN-1 block STAT5/STAT5 DNA binding in K562 nuclear extracts. Substitution of the hydrogen at C6 of the chromone ring by an ethyl group does not affect activity of STAT5-IN-1 against STAT5β, but leads to complete loss of selectivity against other STAT family members[1].			
Solvent&Solubility	In Vitro: DMSO : 20 mg/mL (68.19 mM; Need ultrasonic) H₂O : < 0.1 mg/mL (insoluble)			
	Preparing Stock Solutions	Solvent	Mass	
		Concentration		
		1 mM	3.4097 mL	17.0486 mL
		5 mM	0.6819 mL	3.4097 mL
		10 mM	0.3410 mL	1.7049 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% corn oil Solubility: 2 mg/mL (6.82 mM); Precipitated solution; Need ultrasonic 此方案可获得 2 mg/mL (6.82 mM) 以 1 mL 工作液为例, 取 100 μL 20.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。			
References	[1]. Müller J, et al. Discovery of chromone-based inhibitors of the transcription factor STAT5. Chembiochem. 2008 Mar 25;9(5):723-7.			