



上海源叶生物科技有限公司
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产品名称: **SR1001**
产品别名: **SR1001**

生物活性:					
Description	SR1001 是 ROR α 的反向激动剂, 对 ROR α 和 ROR γ 的 Ki 值分别为 172 nM 和 111 nM。				
IC50 & Target	RORγ [2]	RORα [2]			
	()	()			
	111 nM(Ki)	172 nM(Ki)			
In Vitro	SR1001 binds specifically to the ligand binding domains (LBDs) of RORα and RORγt inducing a conformational change within the LBD that encompasses repositioning of helix 12 leading to diminished affinity for coactivators and increased affinity for corepressors resulting in suppression of the receptors transcriptional activity[2].				
In Vivo	SR1001 suppresses the immune response, including TH17 cells in vitro and in vivo, TH1 cells in vivo, autoantibody production, maintains insulin levels, and increases Foxp3 expression[1]. SR1001 effectively protects against pathologic neovascularization in both oxygen-induced retinopathy and another angiogenic model of very-low-density lipoprotein receptor (Vldlr)-deficient (Vldlr -/-) mice with spontaneous subretinal neovascularization[3].				
Solvent&Solubility	In Vitro: DMSO : 95 mg/mL (198.99 mM) Ethanol: 95 mg/mL (198.99 mM) Water: Insoluble				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.0947 mL	10.4734 mL	20.9468 mL
		5 mM	0.4189 mL	2.0947 mL	4.1894 mL
		10 mM	0.2095 mL	1.0473 mL	2.0947 mL
		50 mM	0.0419 mL	0.2095 mL	0.4189 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] Laura A. Solt, et al. Endocrinology. 2015, 156(3): 869-881. [2] Laura A. Solt, et al. Nature. 2011, 472(7344): 491-494. [3] Sun Y, et al. Proc Natl Acad Sci U S A. 2015, 112(33):10401-6.				
实验参考:					
Animal Administration	动物实验: [1] Animal Models: Female NOD/LtJ mice Formulation: 10% dimethylsulfoxide and 10% Tween 80 solution Dosages: 25 mg/kg Administration: IP				



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- [3] Sun Y, et al. Proc Natl Acad Sci U S A. 2015, 112(33):10401-6.



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