SR0987

®

MedChemExpress

Cat. No.:	HY-101454				
CAS No.:	303126-97-8				
Molecular Formula:	C ₁₆ H ₁₀ ClF ₆ NO ₂				
Molecular Weight:	397.7				
Target:	ROR				
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 150 mg/mL (377.17 mM) H ₂ O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.					
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.5145 mL	12.5723 mL	25.1446 mL		
		5 mM	0.5029 mL	2.5145 mL	5.0289 mL	
		10 mM	0.2514 mL	1.2572 mL	2.5145 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution 					

Description	SR0987, a SR1078 analog, is a ROR γ t agonist, with an EC ₅₀ of 800 nM. SR0987 increases IL17 expression while repressing the expression of PD-1 ^[1] .					
IC ₅₀ & Target	EC50: 800 nM (RORyt) ^[1] .					

Product Data Sheet

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OH F

CI

F



In Vitro

SR0987 clearly shows a concentration dependent induction of reporter gene expression with an EC₅₀ of ~800nM. SR0987 treatment results in a statistically significant reduction of the surface expression of PD-1 whereas desmostrol treatment shows no effect. Treatment with SR0987 and or desmosterol results in a trend towards increased IL17 production^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2021 Jan 22;7(4):eabe4827.
- World J Emerg Med. 2022;13(1):32-37.

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REFERENCES

[1]. Chang MR, et al. Synthetic RORyt Agonists Enhance Protective Immunity. ACS Chem Biol. 2016 Apr 15;11(4):1012-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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