SR1555

®

MedChemExpress

Cat. No.:	HY-120785	
CAS No.:	1386439-51-5	
Molecular Formula:	$C_{22}H_{22}F_{6}N_{2}O_{2}$	~
Molecular Weight:	460.41	
Target:	ROR	
Pathway:	Metabolic Enzyme/Protease	L
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F F F

όη^C F

BIOLOGICAL ACTIV	ИТҮ		
Description	M. SR1555 not only inhib	oic acid receptor-related orphan nuclear receptor γ (ROR γ) inverse agonist with an IC ₅₀ value of 1 μ its TH17 cell development and function but also increases the frequency of T regulatory cells, as ession of IL-17. SR1555 can be used for researching autoimmune diseases ^[1] .	
IC ₅₀ & Target	RORγ 1 μΜ (IC ₅₀)		
In Vitro	 SR1555 (10 μM; 24 h) inhibits Il17a gene expression by greater than 70%in EL4 cells^[1]. SR1555 (10 μM; 24 h) inhibits IL-17 protein expression, inhibits T_H17 cell differentiation and function, and does not induce cell death during T_H17 cell differentiation^[1]. SR1555 (10 μM; 24 h) effectively increases the gene expression of Foxp3 while simultaneously suppressing the gene expression of Roryt^[1]. SR1555 increases the frequency of T regulatory cells as evidenced by the almost 2-fold increase in the expression of Foxp3+ T cells in the splenocyte culture^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR^[1] 		
	Cell Line:	EL4 cells	
	Concentration:	10 μΜ	
	Incubation Time:	24 h	
	Result:	Inhibited Il17a gene expression by greater than 70%.	
	Cell Differentiation Assay	y[1]	
	Cell Line:	Splenocytes (cultured under T _H 17 polarizing conditions for 3 days)	
	Concentration:	10 μΜ	
	Incubation Time:	24 h	
	Result:	Inhibited IL-17 protein expression, inhibited T _H 17 cell differentiation and function, and did not induce cell death during T _H 17 cell differentiation.	

RT-PCR ^[1]	
Cell Line:	Splenocytes (cultured under T regulatory cell polarizing conditions for 3 days)
Concentration:	10 μΜ
Incubation Time:	24 h
Result:	Effectively increased the gene expression of Foxp3 while simultaneously suppressing the gene expression of Rorγt.

REFERENCES

[1]. Solt LA, Kumar N, He Y, Kamenecka TM, Griffin PR, Burris TP. Identification of a selective RORy ligand that suppresses T(H)17 cells and stimulates T regulatory cells. ACS Chem Biol. 2012 Sep 21;7(9):1515-9.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA