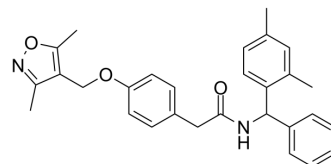


TMP920

Cat. No.:	HY-117819		
CAS No.:	1421837-45-7		
Molecular Formula:	C ₂₉ H ₃₀ N ₂ O ₃		
Molecular Weight:	454.56		
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 : 62.5 mg/mL (137.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1999 mL	10.9996 mL	21.9993 mL
	5 mM	0.4400 mL	2.1999 mL	4.3999 mL
	10 mM	0.2200 mL	1.1000 mL	2.1999 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TMP920 is a highly potent and selective ROR γ t antagonist. TMP920 inhibits ROR γ t binding to the SRC1 peptide with an IC₅₀ of 0.03 μ M^[1].

IC₅₀ & Target

IC₅₀: 0.03 μ M (ROR γ t)^[1]

In Vitro

TMP920 (0.09-30 μ M) starts to show toxic effects on cell growth at >10 μ M in Naïve CD4⁺ T cells^[1].
 TMP920 suppresses Th17 cell differentiation and lost its IL-17 inhibitory effect at <2.5 μ M in vitro^[1].
 TMP920 suppresses IL-17 production from differentiated Th17 cells in vitro^[1].
 TMP920 suppresses the Th17 cell transcriptome and promotes alternate T-cell subsets^[1].
 TMP920 significantly reduces ROR γ t-DNA interactions^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Cytotoxicity Assay^[1]

Cell Line:	Naïve CD4 + T cells
------------	---------------------

Concentration:	0.09-30 μ M
Incubation Time:	48 hours
Result:	Has toxic effects on cell growth at >10 μ M.

REFERENCES

[1]. Xiao S, et al. Small-molecule ROR γ t antagonists inhibit T helper 17 cell transcriptional network by divergent mechanisms. *Immunity*. 2014 Apr 17;40(4):477-89.

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