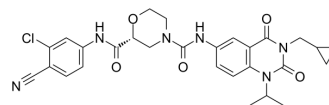


## RORyt Inverse agonist 6

<b>Cat. No.:</b>	HY-130243		
<b>CAS No.:</b>	1887161-80-9		
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>29</sub> ClN <sub>6</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	565.02		
<b>Target:</b>	ROR		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (88.49 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.7698 mL	8.8492 mL
		<b>5 mM</b>	0.3540 mL	1.7698 mL
		<b>10 mM</b>	0.1770 mL	0.8849 mL
	Please refer to the solubility information to select the appropriate solvent.			
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (4.42 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.42 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	RORyt Inverse agonist 6 (compound 43) is a RORyt inverse agonist for the study of Th17-driven autoimmune diseases. RORyt Inverse agonist 6 (compound 43) suppresses IL-17A gene expression by IL-23 stimulation in vivo <sup>[1]</sup> .
<b>In Vivo</b>	RORyt Inverse agonist 6 (compound 43) suppresses IL-17A gene expression by IL-23 stimulation in a mouse pharmacodynamics model <sup>[1]</sup> . RORyt Inverse agonist 6 (compound 43) exhibits improved drug exposure (mouse AUC: 1289 ng·h/mL at 1 mg/kg, po) <sup>[1]</sup> . RORyt Inverse agonist 6 (compound 43, 30 mg/kg, po, b.i.d) inhibits the expression level of IL-17A by 59% compared to the

vehicle after the oral administration at the tested dose<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice <sup>[1]</sup> .
Dosage:	30 mg/kg.
Administration:	Orally twice: at 30 min before and 8 h after IL-23 administration.
Result:	Inhibited the expression level of IL-17A by 59% compared to the vehicle after the oral administration at the tested dose.

## REFERENCES

[1]. Sato A, et al. Design and Synthesis of Conformationally Constrained ROR $\gamma$ t Inverse Agonists. ChemMedChem. 2019 Oct 28.

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

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