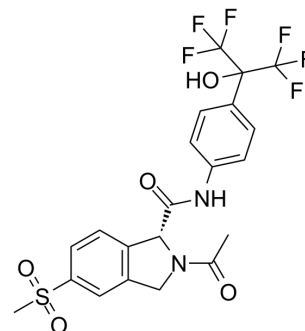


## AZD-0284

<b>Cat. No.:</b>	HY-120384
<b>CAS No.:</b>	2101291-07-8
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>18</sub> F <sub>6</sub> N <sub>2</sub> O <sub>5</sub> S
<b>Molecular Weight:</b>	524
<b>Target:</b>	ROR
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (190.84 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.9084 mL	9.5420 mL	19.0840 mL
		<b>5 mM</b>		0.3817 mL	1.9084 mL	3.8168 mL
	<b>10 mM</b>		0.1908 mL	0.9542 mL	1.9084 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (1.58 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (1.58 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (1.58 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	AZD-0284 is a selective inverse agonist of the nuclear receptor ROR $\gamma$ . AZD-0284 has the potential for plaque psoriasis vulgaris and respiratory tract disorders treatment <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	pIC <sub>50</sub> : 7.4 (FRET ROR $\gamma$ ) <sup>[1]</sup>
<b>In Vitro</b>	AZD0284 (0.37 $\mu$ M; 5 days) inhibits IL-17A production in human T <sub>H</sub> 17 cells <sup>[1]</sup> . AZD0284 reduces polarization of T <sub>H</sub> 17 into pathogenic T <sub>H</sub> 17/1 cells. AZD0284 decreases frequency of single IL-17 <sup>+</sup> cell as well as double positive T <sub>H</sub> 17/1 cells. AZD0284 reduces IL-17A secretion and RNA expression of IL-17A, IL-17F, IL-22 and IL-23R <sup>[1][2]</sup> .

---

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

---

## REFERENCES

---

- [1]. Narjes, F, et al. The discovery of AZD0284, an inverse agonist of the nuclear receptor ROR $\gamma$ . American Chemical Society, 2017 Drug Design and Delivery Symposium 26 October 2017
- [2]. Asimus S, et al. Pharmacokinetics, pharmacodynamics and safety of the inverse retinoic acid-related orphan receptor  $\gamma$  agonist AZD0284 [published online ahead of print, 2020 Feb 17]. Br J Clin Pharmacol. 2020;10.1111/bcp.14253.
- 

**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](mailto:tech@MedChemExpress.com)

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