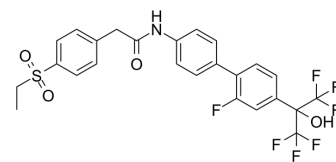


## XY101

<b>Cat. No.:</b>	HY-128604		
<b>CAS No.:</b>	2349368-16-5		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>20</sub> F <sub>7</sub> NO <sub>4</sub> S		
<b>Molecular Weight:</b>	563.48		
<b>Target:</b>	ROR		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<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 : 250 mg/mL (443.67 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.7747 mL	8.8734 mL	17.7469 mL
	<b>5 mM</b>	0.3549 mL	1.7747 mL	3.5494 mL
	<b>10 mM</b>	0.1775 mL	0.8873 mL	1.7747 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: ≥ 2.08 mg/mL (3.69 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution</li> </ol>			

## BIOLOGICAL ACTIVITY

<b>Description</b>	XY101 is a potent, selective, metabolically stable and orally available ROR $\gamma$ inverse agonist with an IC <sub>50</sub> of 30 nM and a K <sub>d</sub> of 380 nM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 30 nM (ROR $\gamma$ ) <sup>[1]</sup> K <sub>d</sub> : 380 nM (ROR $\gamma$ ) <sup>[1]</sup>
<b>In Vitro</b>	XY101 potently inhibits cell growth, colony formation, and the expression of androgen receptor (AR), AR-V7 and prostate-

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	specific antigen (PSA) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	XY101 exhibits significant antitumor activities during the treatment period with tumor growth inhibition and is well tolerated without obvious body weight loss <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Zhang Y, et al. Discovery and Characterization of XY101, a Potent, Selective, and Orally Bioavailable ROR $\gamma$  Inverse Agonist for Treatment of Castration-Resistant Prostate Cancer. J Med Chem. 2019 May 9;62(9):4716-4730.

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**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