EPI-001

Cat. No.:	HY-100348		
CAS No.:	227947-06-0	0	
Molecular Formula:	C21H27ClO2		
Molecular Weight:	394.89		
Target:	Androgen R	eceptor;	PPAR; Apoptosis
Pathway:	Others; Cell	Cycle/DN	IA Damage; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL	DMSO : 33.33 mg/mL (84.40 mM; Need ultrasonic)					
	Solvent Mass Solvent 1 mg 5 mg Concentration	5 mg	10 mg				
Preparing Stock Solutions		1 mM	2.5324 mL	12.6618 mL	25.3235 mL		
	5 mM	0.5065 mL	2.5324 mL	5.0647 mL			
		10 mM	0.2532 mL	1.2662 mL	2.5324 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo		one by one: 10% DMSO >> 40% PE(g/mL (6.33 mM); Clear solution	G300 >> 5% Tween-80) >> 45% saline			
		nt one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) mg/mL (6.33 mM); Clear solution					
		one by one: 10% DMSO >> 90% cor g/mL (6.33 mM); Clear solution	n oil				

BIOLOGICAL ACTIV	ИТҮ
Description	EPI-001, a selective inhibitor of Androgen Receptor (AR), targets transactivation unit 5 (Tau-5) of the AR. EPI-001 can inhibit transactivation of the AR amino-terminal domain (NTD), with an IC ₅₀ of ~6 μM. EPI-001 is also a selective modulator of PPARγ. EPI-001 is active against castration-resistant prostate cancer ^{[1][2][3]} .
IC ₅₀ & Target	IC50: 6 μM (AR NTD) ^[1]
In Vitro	EPI-001 (5-100 μ M; 7 d) inhibits PCa/CRPC cell growth in a dose-dependent manner ^[2] .

Product Data Sheet

HO

ОН

∕_сі он

	ntly confirmed the accuracy of these methods. They are for reference only.
Cell Proliferation Assay [[]	Z]
Cell Line:	PCa, CRPC, PC-3, DU 145, and T47D cell lines
Concentration:	0, 5, 10, 25, 50, 100 μΜ
Incubation Time:	7 days
Result:	Inhibited growth of LNCaP cells at low concentrations. Inhibited growth of AR-negative PC-3 and DU 145 cell lines as well as the T47D breast carcinoma cell line.
Western Blot Analysis ^[2]	
Cell Line:	LNCaP, VCaP LAPC4, C4-2,22Rv1, and CWR-R1 cells
Concentration:	50 μΜ
Incubation Time:	8-16 hours
Result:	Decreased expression of full-length AR protein to varying degrees.
EPI-00 (50 mg/kg; i.v.) b	ery 5 d for 25 d) inhibits the growth of tumors and has no general toxicity in vivo ^[1] . locks the androgen-axis and inhibits androgen-dependent tumor growth ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Male NOD-SCID mice (6-8 weeks) bearing $LNCaP^{[1]}$
Dosage:	20 mg/kg
Administration:	I.v. every 5 days for 25 days
Result:	Reduced tumors from 100.3±1.72 mm ³ to 73.03±29.6 mm ³ within 2 weeks. Did not cause general toxicity indicated by no change in animal behavior or body we

REFERENCES

In Vivo

[1]. Andersen RJ, et, al. Regression of castrate-recurrent prostate cancer by a small-molecule inhibitor of the amino-terminus domain of the androgen receptor. Cancer Cell. 2010 Jun 15; 17(6): 535-46.

[2]. Brand LJ, et, al. EPI-001 is a selective peroxisome proliferator-activated receptor-gamma modulator with inhibitory effects on androgen receptor expression and activity in prostate cancer. Oncotarget. 2015 Feb 28; 6(6): 3811-24.

[3]. Mol ED, et, al. EPI-001, A Compound Active against Castration-Resistant Prostate Cancer, Targets Transactivation Unit 5 of the Androgen Receptor. ACS Chem Biol. 2016 Sep 16;11(9):2499-505.

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