RD162

Cat. No.:	HY-111145		
CAS No.:	915087-27-3		
Molecular Formula:	$C_{22}H_{16}F_{4}N_{4}O_{2}S$		
Molecular Weight:	476.45		
Target:	Androgen R	eceptor	
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0989 mL	10.4943 mL	20.9886 mL
	5 mM	0.4198 mL	2.0989 mL	4.1977 mL
	10 mM	0.2099 mL	1.0494 mL	2.0989 mL

BIOLOGICAL ACTIV	ИТҮ				
Description	RD162, a diarylthiohydantoin, is an orally active non-steroidal antiandrogen (NSAA). RD162 specifically binds to androgen receptor (AR). RD162 induces tumor regression in mouse models of castration-resistant human prostate cancer ^[1] .				
In Vitro	endogenous AR gene am RD162 has little to no bin polarization assay ^[1] .	CE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Cell Line:	VCaP cells			
	Concentration:	1,10 μΜ			
	Incubation Time:	4 days			

Product Data Sheet

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	Result:	Suppressed cell growth.		
In Vivo	RD162 (10 mg/kg; oral	gavage; daily; for 28 days) causes all tumors regressed ^[1] .		
	RD162 (0.1, 1, 10 mg/kg	RD162 (0.1, 1, 10 mg/kg; oral gavage; daily; for 5 days) consistently reduces luciferase activity with 10 mg/kg/day human		
	LNCaP/AR xenografts g	LNCaP/AR xenografts grown in castrated male mice whereas lower doses of 0.1 and 1.0 mg/kg/day has minimal effect.		
	RD162 substantially re-	RD162 substantially reduces cellular proliferation after 5 days ^[1] .		
	RD162 (20 mg/kg; gava	ge) is -50 percent bioavailable after oral delivery with a serum half-life of about 30 hours ^[1] .		
	MCE has not independ	ently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Castrate male mice bearing LNCaP/AR xenografts $^{[1]}$		
	Dosage:	10 mg/kg		
	Administration:	Oral gavage; daily; for 28 days		
	Result:	Caused all tumors regressed.		
	Animal Model:	Male mice ^[1]		
	Dosage:	20 mg/kg (Pharmacokinetic Analysis)		
	Administration:	Oral gavage (in 0.5% hydroxy-methyl-propyl-cellulose)		
	Result:	Had ⊠50 percent bioavailable after oral delivery with a serum half-life of about 30 hours.		

REFERENCES

[1]. Chris Tran, et al. Development of a second-generation antiandrogen for treatment of advanced prostate cancer. Science. 2009 May 8;324(5928):787-90.

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

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