HSP90-IN-9

®

MedChemExpress

Cat. No.:	HY-145814	Q
CAS No.:	2765247-36-5	N
Molecular Formula:	C ₃₀ H ₃₁ N ₃ O ₅	HQ
Molecular Weight:	513.58	
Target:	HSP; Fungal	N N
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Anti-infection	но >
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV	ЛТҮ	
Description	HSP90-IN-9 inhibits fungal b	selective HSP90 inhibitor. HSP90-IN-9 displays a fungicidal effect in a dose-dependent manner. biofilm formation and fungal morphological changes after being combined with FLC. HSP90-IN-9 down-regulating the expression of related genes (ERG11, CDR1 and CDR2) ^[1] .
IC ₅₀ & Target	HSP90	
In Vitro	albicans (C. albicans) strain strain 103,strain311, respect HSP90-IN-9 (24 h) shows low 34.09, 17.45, 7.15, >50, 21.33 respectively) ^[1] . HSP90-IN-9 (32 μg/mL (com changes after being combin HSP90-IN-9 (C. albicans (str HSP90-IN-9 (FLC + compour expression of CYP51 (ERG11	w toxic to human cancer cells, human normal cells and the macrophage lineage (IC ₅₀ s is 13.12, 3, 17.05, 10.34 μM in A549, MCF-7, HEPG2, THLE-2, BEAS-2B, NIH-3T3, Raw264.7, BV-2 cells, nbined with FLC (32 μg/mL)), 24 h) inhibits fungal biofilm formation and fungal morphological
	Cell Line:	A549, MCF-7, HEPG2, THLE-2, BEAS-2B, NIH-3T3, Raw264.7, BV-2 cells
	Concentration:	
	Incubation Time:	24 h
	Result:	Showed low toxic to human cancer cells, human normal cells and the macrophage lineage (IC ₅₀ s of 13.12, 34.09, 17.45, 7.15, >50, 21.33, 17.05, 10.34 μM in A549, MCF-7, HEPG2, THLE-2, BEAS-2B, NIH-3T3, Raw264.7, BV-2 cells, respectively).
	RT-PCR ^[1]	
	Cell Line:	Azole-resistant strain 904

	Concentration:	32 μg/mL (combined with FLC (32 μg/mL))		
	Incubation Time:	24 h		
	Result:	Inhibited fungal biofilm formation and fungal morphological changes after being combined with FLC.		
In Vivo	HSP90-IN-9 (A17 (10 mg/l the colonization and diss	v.) exhibits moderate pharmacokinetic properties in SD rats ^[1] . kg)+FLC (1 mg/kg); i.p.; once a day for 5 days) exhibits potent in vivo antifungal efficacy by reducing semination of fungi in tissue ^[1] . eters of HSP90-IN-9 in male Sprague-Dawley (SD) rats ^[1] .		
	dose (mg/kg) T _{1/2} ((h) C ₀ (ng/mL) AUC _(0-t) AUC _(0-∞) V _z (L/kg) Cl MRT _(0-∞) (h (h*ng/mL) (h*ng/mL) (mt/min/kg)		
	10 mg/kg 1.26±0	0.31 4752.50±44.54 3005.15±35.59 3028.95±54.14 11.25±3.69 101.77±1.96 1.12±0.07		
	male Sprague-Dawley (SI			
	male Sprague-Dawley (SI MCE has not independen	D) rats; 10 mg/kg; i.v. ^[1] tly confirmed the accuracy of these methods. They are for reference only.		
	male Sprague-Dawley (SI MCE has not independen Animal Model:	D) rats; 10 mg/kg; i.v. ^[1] tly confirmed the accuracy of these methods. They are for reference only. male Sprague-Dawley (SD) rats ^[1]		
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	male Sprague-Dawley (SI MCE has not independen Animal Model: Dosage: Administration:	D) rats; 10 mg/kg; i.v. ^[1] tly confirmed the accuracy of these methods. They are for reference only. male Sprague-Dawley (SD) rats ^[1] 10 mg/kg i.v.		
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REFERENCES

[1]. Yin W, et al. Species-Selective Targeting of Fungal Hsp90: Design, Synthesis, and Evaluation of Novel 4,5-Diarylisoxazole Derivatives for the Combination Treatment of Azole-Resistant Candidiasis. J Med Chem. 2022, 65(7):5539-5564.

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

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