PD 404182

Cat. No.:	HY-16958		
CAS No.:	72596-74-8		
Molecular Formula:	$C_{11}H_{11}N_3S$		
Molecular Weight:	217.29		
Target:	Antibiotic		
Pathway:	Anti-infecti	on	
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

In Vitro	DMSO : 50 mg/mL (23	0.11 mM; Need ultrasonic)					
Preparing Stock Solu	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	4.6021 mL	23.0107 mL	46.0214 mL		
		5 mM	0.9204 mL	4.6021 mL	9.2043 mL		
		10 mM	0.4602 mL	2.3011 mL	4.6021 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent of Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEC g/mL (11.51 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (11.51 mM); Suspended solution; Need ultrasonic 						
	3. Add each solvent of Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (11.51 mM); Clear solution	n oil				

DIOLOGICALACITY	
Description	PD 404182 is a potent and competitive inhibitor of human dimethylarginine dimethylaminohydrolase 1 (DDAH1), with an IC ₅₀ of 9 μM. PD 404182 exhibits antiangiogenic and antiviral activity in vitro ^{[1][2]} .
IC ₅₀ & Target	IC50: 9 μM (DDAH1) ^[1]
In Vitro	PD 404182 (20 μM) increases asymmetric dimethylarginine (ADMA) approximately 70% in ECs ^[1] . PD 404182 (50-100 μM; 18 hours) attenuates endothelial tube formation in virto and does not perturb cell membrane

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T lymphocytes, macropl MCE has not independe Cell Viability Assay ^[1]	hages, and dendritic cells, and lactobacilli found in the normal vaginal flora ^[2] . ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	Human dermal microvascular endothelial cells (ECs)
	10.200 JM
Concentration:	10-500 μΜ
Concentration: Incubation Time:	24 hours

CUSTOMER VALIDATION

• Front Immunol. 05 August 2022.

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REFERENCES

[1]. Ghebremariam YT, et, al. A novel and potent inhibitor of dimethylarginine dimethylaminohydrolase: a modulator of cardiovascular nitric oxide. J Pharmacol Exp Ther. 2014 Jan; 348(1): 69-76.

[2]. Chamoun-Emanuelli AM, et, al. Evaluation of PD 404,182 as an anti-HIV and anti-herpes simplex virus microbicide. Antimicrob Agents Chemother. 2014; 58(2): 687-97.

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

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