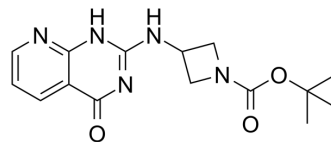


AZ3976

Cat. No.:	HY-117724		
CAS No.:	1418747-15-5		
Molecular Formula:	C ₁₅ H ₁₉ N ₅ O ₃		
Molecular Weight:	317.34		
Target:	PAI-1		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (315.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1512 mL	15.7560 mL	31.5119 mL
		5 mM	0.6302 mL	3.1512 mL	6.3024 mL
10 mM		0.3151 mL	1.5756 mL	3.1512 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.88 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	AZ3976 is a potent plasminogen activator inhibitor type 1 (PAI-1) inhibitor with an IC ₅₀ value of 26 μM in an enzymatic chromogenic assay. AZ3976 is active with an IC ₅₀ of 16 μM in a plasma clot lysis assay. AZ3976 does not bind to active PAI-1 but bound reversibly to latent PAI-1. AZ3976 inhibits PAI-1 by enhancing the latency transition of active PAI-1. AZ3976 displays profibrinolytic activities in a human plasma clot lysis assay ^[1] .
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REFERENCES

[1]. Ola Fjellström, et al. Characterization of a small molecule inhibitor of plasminogen activator inhibitor type 1 that accelerates the transition into the latent conformation. J Biol Chem. 2013 Jan 11;288(2):873-85.

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

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