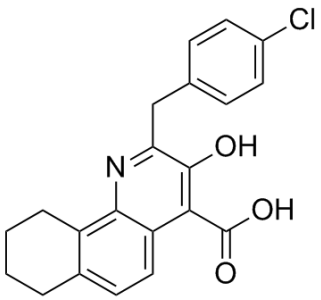
PSI-697

Cat. No.:	HY-15526		
CAS No.:	851546-61-7		
Molecular Formula:	$C_{21}H_{18}ClNO_3$		
Molecular Weight:	367.83		
Target:	Others		
Pathway:	Others		
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 : ≥ 45.8 mg/mL (124.51 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	2.7186 mL	13.5932 mL	27.1865 mL
	5 mM	0.5437 mL	2.7186 mL	5.4373 mL
	10 mM	0.2719 mL	1.3593 mL	2.7186 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PSI-697is a P-selectin inhibitor.In vivo: 30 mg/kg; oral gavage daily. Animals treaed with PSI-697 shows a significantly decreased intimal thickness score when compared with vehicle control IVCs. PSI-697 significantly decreased vein wall levels of platelet-derived growth factor . d PSI-697 inhibits vein wall injury independently of thrombus mass. P-selectin inhibition seemed superior to LMWH in measured parameters of injury and mediator inhibition. PSI-697 inhibit vein wall injury independently of thrombus size in a rodent model of DVT. [1] PSI-697 (50 mg/kg p.o.) significantly reduced the number of rolling leukocytes by 39% ($P < 0.05$) versus vehicle control. In a rat venous thrombosis model, PSI-697 (100 mg/kg p.o.) reduced thrombus weight by 18% ($P < 0.05$) relative to vehicle, without prolonging bleeding time. [2] Animals receiving PSI-697 demonstrated significantly increased plasma D-dimer levels versus LMWH and control animals six hours post thrombus induction.[3]

REFERENCES

[1]. Myers DD Jr et al. Treatment with an oral small molecule inhibitor of P selectin (PSI-697) decreases vein wall injury in a rat stenosis model of venous thrombosis. J Vasc Surg. 2006 Sep;44(3):625-32.

[2]. Bedard PW et al. Characterization of the novel P-selectin inhibitor PSI-697 [2-(4-chlorobenzyl)-3-hydroxy-7,8,9,10-tetrahydrobenzo[h] quinoline-4-carboxylic acid] in vitro and in rodent models of vascular inflammation and thrombosis. J Pharmacol Exp Ther.

[3]. Myers DD Jr et al. Resolution of venous thrombosis using a novel oral small-molecule inhibitor of P-selectin (PSI-697) without anticoagulation. Thromb Haemost. 2007 Mar;97(3):400-7.

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