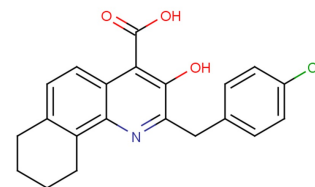


PSI-697

Chemical Properties

CAS No.:	851546-61-7
Formula:	C ₂₁ H ₁₈ ClNO ₃
Molecular Weight:	367.83
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	PSI-697 is an inhibitor of oral P-selectin (IC ₅₀ : 125 μM).
Targets(IC ₅₀)	P-selectin: 125 μM
In vitro	PSI-697 inhibits the binding of a soluble human P-selectin to PSGL-1. In vitro, as a reproducible concentration-dependent manner inhibiting 50% of binding at a concentration of 125 μM [1].
In vivo	PSI-697 (30 mg/kg; p.o.; daily; 6 days) promotes thrombus resolution and reduces inflammation in a baboon model of venous thrombosis. PSI-697 ((30 mg/kg; i.g.; daily) decreases vein wall injury in a rat stenosis model of venous thrombosis. PSI-697 (100 mg/kg; p.o.) reduces thrombus weight by 18% relative to the vehicle, without prolonging bleeding time in a rat venous thrombosis model. PSI-697 (0-50 mg/kg; p.o.) obviously decreases the number of rolling leukocytes by 39% versus vehicle control[1][2].

Solubility Information

Solubility	DMSO: 45.8 mg/mL (124.51 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.719 mL	13.593 mL	27.186 mL
5 mM	0.544 mL	2.719 mL	5.437 mL
10 mM	0.272 mL	1.359 mL	2.719 mL
50 mM	0.054 mL	0.272 mL	0.544 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.*
2. 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.
3. 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.

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