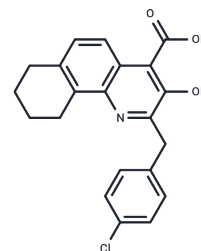


PSI-697

## Chemical Properties

CAS No. : 851546-61-7  
 Formula: C<sub>21</sub>H<sub>18</sub>ClNO<sub>3</sub>  
 Molecular Weight: 367.83  
 Storage: Keep away from moisture  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	PSI-697 (P-Selectin Inhibitor) is an orally active P-selectin inhibitor with anti-inflammatory and anti-thrombotic effects, useful for studying cardiovascular diseases such as atherosclerosis.
Targets(IC50)	Others
In vitro	PSI-697 inhibits the binding of soluble human P-selectin to PSGL-1 in a concentration-dependent manner with IC <sub>50</sub> =50-125 μM. [1]
In vivo	In a rat model of surgical inflammation, PSI-697 (50 mg/kg, orally) significantly reduced rolling white blood cell count by 39% In a rat venous thrombosis model, PS-697 (100 mg/kg, orally) reduced thrombus weight by 18% relative to the carrier (P < 0.05) without prolonged bleeding time. In a rat model of carotid artery injury, PSI-697 (30 or 15 mg/kg oral) administered 1 hour before arterial injury and once daily thereafter for 13 days resulted in a dose-dependent reduction of 40.2% in the intima/media ratio. [1] In a venous thrombosis rat stenosis model, PSI-697 (30 mg/kg; The thickening of the intima of the venous wall was significantly reduced by daily oral force-feeding. [2]

## Solubility Information

Solubility	DMSO: 40 mg/mL (108.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	1mg	5mg	10mg
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
50 mM	0.0544 mL	0.2719 mL	0.5437 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- 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.* 2008 Feb;324(2):497-506.
- 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.
- 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481