Data Sheet (Cat.No.T20563)



PD-166793

Chemical Properties

CAS No.: 199850-67-4

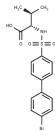
Formula: C17H18BrNO4S

Molecular Weight: 412.3

Appearance: no data available

Storage: Storage: 2005 for 2 years

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PD-166793 is an orally active, potent and selective MMP inhibitor with inhibitory effects on MMP-2, MMP-3 and MMP-13.PD-166793 ameliorates myocardial ischemia and reperfusion injury in a rat model of heart failure.PD-166793 is an orally active, potent and selective MMP inhibitor with inhibitory effects on MMP-2, MMP-3, and MMP-13.		
Targets(IC50)	MMP		
In vitro	In rat heart homogenates, PD-166793 at a concentration of 0.1 μ M results in a 20% inhibition of AMP deaminase (AMPD) activity[2]. Additionally, when normal human cardiac fibroblasts are treated with PD-166793 at a concentration of 100 μ M for 36 hours, there is a significant reduction in MMP-9 activity[1].		
In vivo	Administered at a dosage of 1 mg/kg per day through daily gavage for a duration of 10 weeks, PD-166793 largely prevents the adverse remodeling typically observed in the aortocaval (AV) fistula model[3]. Furthermore, in rats, PD-166793 administered at a dose of 5 mg/kg via oral gavage demonstrates superior pharmacokinetics, with a half-life (t1/2) of 43.6 hours, a maximum concentration (Cmax) of 42.4 μg/mL, and an area under the curve from 0 to infinity (AUCO-∞) of 2822 μg•h/mL[2].		

Solubility Information

Solubility DMSO: 80 mg/mL(194.03 mM), Sonication is recommended	
(< 1 mg/ml refers to the product slightly soluble or insolubl	e)

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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4254 mL	12.1271 mL	24.2542 mL
5 mM	0.4851 mL	2.4254 mL	4.8508 mL
10 mM	0.2425 mL	1.2127 mL	2.4254 mL
50 mM	0.0485 mL	0.2425 mL	0.4851 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.

Reference

Kaludercic N, et, al. Inhibiting metalloproteases with PD 166793 in heart failure: impact on cardiac remodeling and beyond. Cardiovasc Ther. Spring 2008;26(1):24-37.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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