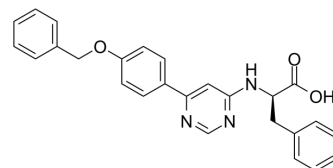


BAY 73-1449

Cat. No.:	HY-118941	
CAS No.:	693790-96-4	
Molecular Formula:	C ₂₆ H ₂₃ N ₃ O ₃	
Molecular Weight:	425.48	
Target:	Prostaglandin Receptor	
Pathway:	GPCR/G Protein	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (587.57 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.3503 mL	11.7514 mL	23.5029 mL
		5 mM		0.4701 mL	2.3503 mL	4.7006 mL
10 mM		0.2350 mL	1.1751 mL	2.3503 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (4.89 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.89 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BAY 73-1449 is a selective antagonist of prostacyclin receptor (IP), with high potency (IC ₅₀ of less than 0.1 nM) in cAMP assays in Human HEL cells and rat DRG. BAY 73-1449 can be used in the research of lowering blood pressure ^[1] .
IC ₅₀ & Target	IP Receptor <0.1 nM (IC ₅₀)
In Vivo	BAY 73-1449 (0.1-1 mg/kg; i.v.) does not significantly reduce mesenteric inflow, but significantly reduces splenic shunt vessel outflow in rats ^[1] . BAY 73-1449 (1-5 mg/kg, s.c. once daily for 7 d) has no effects on the degree of porto-systemic shunting in rats ^[1] . BAY 73-1449 (1 mg/kg, s.c. once daily for 7 d), has no effects on portal pressures in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (250-350 g) are ligated portal vein ^[1]
Dosage:	0.1, 1 mg/kg
Administration:	A single i.v.
Result:	Significantly reduced shunt flow without affecting mesenteric flow.

REFERENCES

[1]. Bexis S, et, al. Vascular actions of the prostacyclin receptor antagonist BAY 73-1449 in the portal hypertensive rat. Eur J Pharmacol. 2008 Aug 20;590(1-3):322-6.

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

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