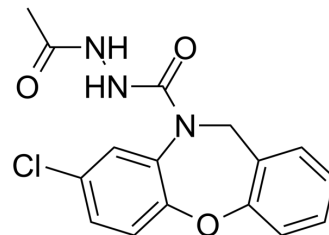


SC-19220

Cat. No.:	HY-102065		
CAS No.:	19395-87-0		
Molecular Formula:	C ₁₆ H ₁₄ ClN ₃ O ₃		
Molecular Weight:	331.75		
Target:	Prostaglandin Receptor		
Pathway:	GPCR/G Protein		
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 : 100 mg/mL (301.43 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0143 mL	15.0716 mL	30.1432 mL
		5 mM	0.6029 mL	3.0143 mL	6.0286 mL
10 mM		0.3014 mL	1.5072 mL	3.0143 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.54 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.54 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.54 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	SC-19220 is a competitive prostaglandin E2 receptor antagonist. SC-19220 increases the bladder capacity and reduced the voiding efficiency of micturition (elicited by slow transvesical filling) of urethane-anesthetized rats. SC-19220 can restores the balance in bone marrow granulocyte and monocyte production after burn sepsis ^{[1][2]} .
IC ₅₀ & Target	PGE2 ^[1]

REFERENCES

- [1]. Maggi CA, et al. The effect of SC-19220, a prostaglandin antagonist, on the micturition reflex in rats. *Eur J Pharmacol.* 1988 Aug 2;152(3):273-9.
- [2]. Santangelo S, Shoup M, Gamelli RL, Shankar R. Prostaglandin E2 receptor antagonist (SC-19220) treatment restores the balance to bone marrow myelopoiesis after burn sepsis. *J Trauma.* 2000 May;48(5):826-30; discussion 830-1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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