Zenarestat

Cat. No.:	HY-116239		
CAS No.:	112733-06-	9	
Molecular Formula:	C ₁₇ H ₁₁ BrCl	FN ₂ O ₄	
Molecular Weight:	441.64		
Target:	Aldose Red	uctase	
Pathway:	Metabolic E	nzyme/F	Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (226.43 mM; Need ultrasonic)					
Prep Stoc	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.2643 mL	11.3214 mL	22.6429 mL	
		5 mM	0.4529 mL	2.2643 mL	4.5286 mL	
		10 mM	0.2264 mL	1.1321 mL	2.2643 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent of Solubility: ≥ 25 mg Add each solvent of Solubility: ≥ 2.5 mg 	one by one: 10% DMSO >> 90% cor /mL (56.61 mM); Clear solution one by one: 10% DMSO >> 90% (20 g/mL (5.66 mM); Clear solution	n oil % SBE-β-CD in saline)			

BIOLOGICAL ACTIV		
Description	Zenarestat is a potent and Zucker diabetic fatty rats ^{[:}	l orally active aldose reductase inhibitor. Zenarestat improves diabetic peripheral neuropathy in ^{1]} .
In Vivo	Zenarestat (3.2, 32 mg/kg; MCE has not independent	p.o.; daily for 8 weeks) inhibits nerve sorbitol accumulation in a dose-dependent manner ^[1] . Iy confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Zucker diabetic fatty (ZFD) rats (type 2 diabetes models) ^[1]
	Dosage:	3.2, 32 mg/kg

Product Data Sheet

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Administration:	P.o.; daily for 8 weeks
Result:	At 3.2 mg/kg, zenarestat had no significant effect on the delay in F-wave minimal latency (FML) and the slowing of motor nerve conduction velocity (MNCV), although the sorbitol accumulation in the sciatic nerve was partially inhibited in ZDF rats. At 32 mg/kg zenarestat treatment improved these nerve dysfunctions in ZDF rats, along with a reduction of nerve sorbitol accumulation almost to the level of lean rats.

REFERENCES

[1]. Shimoshige Y, et al. The effects of zenarestat, an aldose reductase inhibitor, on peripheral neuropathy in Zucker diabetic fatty rats. Metabolism. 2000;49(11):1395-1399.

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

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