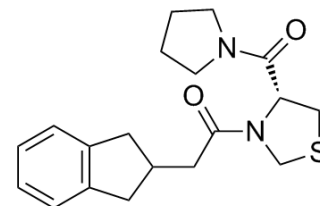


Z-321

Cat. No.:	HY-19123		
CAS No.:	130849-58-0		
Molecular Formula:	C ₁₉ H ₂₄ N ₂ O ₂ S		
Molecular Weight:	344.47		
Target:	Others		
Pathway:	Others		
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 : 250 mg/mL (725.75 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.9030 mL	14.5151 mL	29.0301 mL
	5 mM	0.5806 mL	2.9030 mL	5.8060 mL
	10 mM	0.2903 mL	1.4515 mL	2.9030 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (18.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (18.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (18.14 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Z-321 is a prolylendopeptidase (PEP) inhibitor.
IC₅₀ & Target	PEP ^[1]
In Vivo	Z-321 is a prolylendopeptidase (PEP) inhibitor. In the 100 or 200 mg/kg Z-321-treated groups, mean lordosis quotient (LQ) decreases after administration. However, there is no statistical difference among the values before and after. In contrast, the mean LQ in the 300 mg/kg Z-321-treated females is lower than that before injection (P<0.005). Furthermore, when compare

to that in the vehicle-treated control group, mean LQ is also significantly lower ($p < 0.05$). The incidence of soliciting behavior decreases after treatment with 300 mg/kg Z-321, when compare to that before treatment, but there is no statistical difference. The present study also demonstrates that 300 mg/kg Z-321 is effective in inhibiting lordosis behavior without disturbance of locomotor activity^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

Femal wistar rats (200 to 250 g) are used and housed under conditions of controlled temperature (23 to 26°C) and photoperiod (14: 10 h, light:dark). Fifty four rats are ovariectomized under ether anesthesia. Two weeks after ovariectomy, sexual behavioral tests are carried out before and after a treatment with Z-321 (100, 200 or 300 mg/kg). Another group of rats, 7 females are given 1 mL/kg of 10% gum arabic as control group^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Oosuka I, et al. Decrease of sexual receptivity by prolylendopeptidase inhibitor in female rats. *Jpn J Pharmacol.* 2000 May;83(1):82-5.

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

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