

Product Data Sheet

Product Name: Z-321
Cat. No.: GC31152

Chemical Properties

Cas. No. 130849-58-0

SMILES O=C([C@H]1N(C(CC2CC3=C(C=CC=C3)C2)=O)CSC1)N4CCCC4

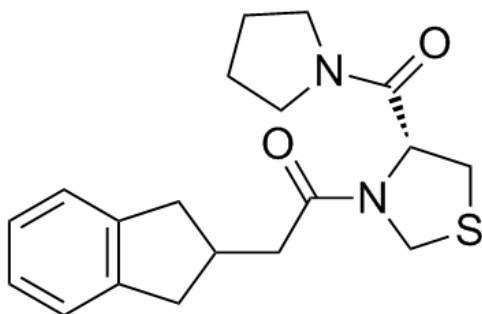
Formula $C_{19}H_{24}N_2O_2S$ M.Wt 344.47

Solubility DMSO: 250 mg/mL (725.75 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Protocol

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

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Animal experiment: 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].

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.

Background

Z-321 is a prolylendopeptidase (PEP) inhibitor.

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].

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

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