Z-Pro-prolinal

Cat. No.: HY-134454A

CAS No.: 88795-32-8

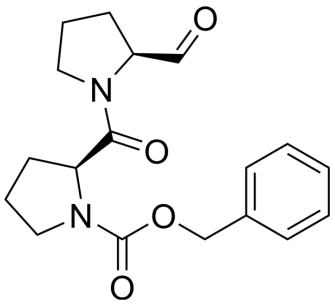
Molecular Formula: $C_{18}H_{22}N_2O_4$

Molecular Weight: 330.38

Target: Prolyl Endopeptidase (PREP)

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Z-Pro-prolinal (N-Benzyloxycarbonyl-L-prolyl-L-prolinal) is a specific, orally active prolyl endopeptidase (PREP) inhibitor with an IC_{50} of 0.4 nM for porcine PREP[1][2][3].
IC_{50} & Target	IC_{50}: 0.4 nM (porcine PREP)[2] K_i: 3.7 nM (PREP from bovine brain)[1]
In Vivo	Z-Pro-prolinal (N-Benzyloxycarbonyl-L-prolyl-L-prolinal) (100 mg/kg; p.o.; once) increases septal vasopressin content in rats [3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats[3]
Dosage:	100 mg/kg
Administration:	Oral administration, once
Result:	Significantly increased the septal arginine-vasopressin (AVP) content.

REFERENCES

[1]. Tsuru D, et al. Thiazolidine derivatives as potent inhibitors specific for prolyl endopeptidase. J Biochem. 1988;104(4):580-586.

[2]. Kilpeläinen TP, et al. The effect of prolyl oligopeptidase inhibitors on alpha-synuclein aggregation and autophagy cannot be predicted by their inhibitory efficacy. Biomed Pharmacother. 2020;128:110253.

[3]. Miura N, et al. Increase in the septal vasopressin content by prolyl endopeptidase inhibitors in rats. Neurosci Lett. 1995;196(1-2):128-130.

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