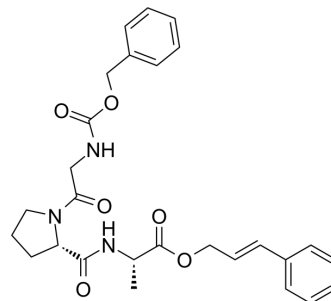


Cbz-Gly-Pro-Ala-O-cinnamyl

Cat. No.:	HY-163382
Molecular Formula:	C ₂₇ H ₃₁ N ₃ O ₆
Molecular Weight:	493.55
Target:	Beta-lactamase; Cholinesterase (ChE); Amyloid-β
Pathway:	Anti-infection; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cbz-Gly-Pro-Ala-O-cinnamyl (compound 25) is a small peptide targeting BACE-1 and AChE with the IC ₅₀ values of 0.02 μM and 1 μM, respectively. Cbz-Gly-Pro-Ala-O-cinnamyl shows neuroprotective effect and can be used for study of Alzheimer's disease ^[1] .
In Vitro	Cbz-Gly-Pro-Ala-O-cinnamyl (compound 25) (10 μM, 48 h) exhibits 54% inhibition of Aβ ₁₋₄₂ aggregation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cbz-Gly-Pro-Ala-O-cinnamyl (compound 25) (i.p.; 10 mg/kg for 9 days) reverses Scopolamine (HY-N0296)-affected memory impairment in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Scopolamine (HY-N0296)-affected memory impairment in mice ^[1]
Dosage:	10 mg/kg
Administration:	i.p. for 9 days
Result:	Reversed Scopolamine (HY-N0296)-affected memory impairment.

REFERENCES

[1]. Kaur B, et al. Small Peptides Targeting BACE-1, AChE, and A-β Reversing Scopolamine-Induced Memory Impairment: A Multitarget Approach against Alzheimer's Disease. ACS Omega. 2024;9(11):12896-12913. Published 2024 Mar 4.

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

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