Screening Libraries

Z-Pro-Pro-aldehyde-dimethyl acetal

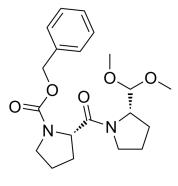
Cat. No.: HY-P4308 CAS No.: 170116-63-9 Molecular Formula: $C_{20}H_{28}N_{2}O_{5}$ Molecular Weight: 376.45

Pro-{Pro-Aldehyde-dimethyl acetal} Sequence: Sequence Shortening: P-{Pro-Aldehyde-dimethyl acetal}

Target: Prolyl Endopeptidase (PREP) Pathway: Metabolic Enzyme/Protease

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

Analysis.



Product Data Sheet

BIOLOGICAL ACTIVITY

Description	Z-Pro-Pro-aldehyde-dimethyl acetal is a potent inhibitor of prolyl endopeptidase (PREP), a cytoplasmic serine endoprotease (IC_{50} = 12 nM). Z-Pro-Pro-aldehyde-dimethyl acetal plays an important role in cognitive dysfunction in aging and neurodegenerative diseases including Alzheimer's disease ^{[1][2]} .
IC ₅₀ & Target	PREP 12 nM (IC ₅₀)

REFERENCES

[1]. Robin S B Williams, et al. A common mechanism of action for three mood-stabilizing drugs. Nature. 2002 May 16;417(6886):292-5.

[2]. Andis Klegeris, et al. Prolyl endopeptidase is revealed following SILAC analysis to be a novel mediator of human microglial and THP-1 cell neurotoxicity. Glia. 2008 Apr 15;56(6):675-85.

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

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