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Zuschläge

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Serpinin

Cat. No.:	HY-P10336
CAS No.:	1383743-23-4
Molecular Formula:	C ₁₂₅ H ₂₀₄ N ₃₂ O ₄₆
Molecular Weight:	2891.14
Sequence:	Pro-Glu-Asp-Gln-Glu-Leu-Glu-Ser-Leu-Ser-Ala-Ile-Glu-Ala-Glu-Leu-Glu-Lys-Val-Ala-His -Gln-Leu-Gln-Ala-Leu
Sequence Shortening:	PEDQELESLSAIEAELEKVAHQQLQAL
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Serpinin is an agonist of the protease inhibitor Nexin-1 (PN-1). Serpinin upregulates the expression of PN-1 through the cAMP-PKA-Sp1 signaling pathway, promoting granule biogenesis in endocrine cells. Serpinin is used in research related to the regulation of secretory function^[1]. Serpinin is a selective agonist for β -adrenergic receptors. Serpinin interacts with β 1-adrenergic receptors to activate the AC-cAMP-PKA pathway, which regulates myocardial systolic and diastolic function. pGlu-serpinin upregulates Bcl2 mRNA transcription and exerts neuroprotective effects^[2].

REFERENCES

[1]. Koshimizu H, et al. Serpinin: a novel chromogranin A-derived, secreted peptide up-regulates protease nexin-1 expression and granule biogenesis in endocrine cells. *Mol Endocrinol.* 2011 May;25(5):732-44.

[2]. Loh YP, et al. Chromogranin A and derived peptides in health and disease. *J Mol Neurosci.* 2012 Oct;48(2):347-56.

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

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