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Zuschläge

- Mindermengenzuschlag
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RA-XII

Cat. No.:	HY-P10298
CAS No.:	143343-98-0
Molecular Formula:	C ₄₆ H ₅₈ N ₆ O ₁₄
Molecular Weight:	918.98
Target:	Autophagy; Apoptosis; Akt; mTOR
Pathway:	Autophagy; Apoptosis; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

RA-XII is bicyclic hexapeptidic glucoside, which exhibits antitumor and anti-inflammatory activity. RA-XII activates Akt-mTOR signaling pathway, inhibits the formation of autophagosomes, and thus suppresses autophagy. RA-XII induces apoptosis through AMPK/mTOR/P70S6K pathway. RA-XII inhibit metastasis via reducing cell adhesion and invasion in breast cancer cells. RA-XII attenuates anti-inflammatory efficacy against acute kidney injury through HO-1/Nrf2 pathway^{[1][2][3][4]}.

REFERENCES

- [1]. Wang J, et al., RA-XII, a bicyclic hexapeptidic glucoside isolated from *Rubia yunnanensis* Diels, exerts antitumor activity by inhibiting protective autophagy and activating Akt-mTOR pathway in colorectal cancer cells. *J Ethnopharmacol.* 2021 Feb 10;266:113438.
- [2]. Leung HW, et al., RA-XII inhibits tumour growth and metastasis in breast tumour-bearing mice via reducing cell adhesion and invasion and promoting matrix degradation. *Sci Rep.* 2015 Nov 23;5:16985.
- [3]. An X, et al., RA-XII exerts anti-oxidant and anti-inflammatory activities on lipopolysaccharide-induced acute renal injury by suppressing NF-κB and MAPKs regulated by HO-1/Nrf2 pathway. *Biochem Biophys Res Commun.* 2018 Jan 15;495(3):2317-2323.
- [4]. Song L, et al., Natural Cyclopeptide RA-XII, a New Autophagy Inhibitor, Suppresses Protective Autophagy for Enhancing Apoptosis through AMPK/mTOR/P70S6K Pathways in HepG2 Cells. *Molecules.* 2017 Nov 11;22(11):1934.

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

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