

Ranatensin

Cat. No.:	HY-P1685
CAS No.:	29451-71-6
Molecular Formula:	C ₆₁ H ₈₄ N ₁₆ O ₁₃ S
Molecular Weight:	1281.48
Sequence Shortening:	Glp-VPQWAVGHFM-NH2
Target:	Bombesin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Ranatensin is a undecapeptide and a Bombesin Receptor antagonist, can be isolated from amphibian skin, such as the frog, <i>Rana pipiens</i> . Ranatensin could maintain the dynamic balance of animal blood pressure, without cross-tachyphylaxis with Angiotensin amide (HY-P2212), Bradykinin (HY-P0206), or Norepinephrine (HY-13715) ^{[1][2]} .
In Vitro	Ranatensin (0.3 nM; 30 min) induces amylase release by various pancreatic secretagogues ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ranatensin (10-50 µg/mL, 0.1-1 mL; i.v.; single dose) increases blood pressure in the dog and rabbit, indicating a direct peripheral vasoconstrictor action ^[2] . Ranatensin (10-50 µg/mL, 0.1-1 mL; i.v.; single dose) also lowers blood pressure in the monkey, being as potent as Eledoisin (HY-P0006). It shows a direct peripheral action on vascular smooth muscle ^[2] . Ranatensin (10-50 µg/mL, 0.005-0.1 mL; i.v.; single dose) has a variable effect based on the basal level of blood pressure in the rat that shows antihypertensive effect during high level and raises blood pressure when level is low, in part due to the release of noradrenaline from peripheral sympathetic nerve endings ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Geller RG, et al. The action of ranatensin, a new polypeptide from amphibian skin, on the blood pressure of experimental animals. *Br J Pharmacol.* 1970 Dec;40(4):605-16.
- [2]. Jensen RT, et al. A synthetic peptide that is a bombesin receptor antagonist. *Nature.* 1984 May 3-9;309(5963):61-3.

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

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