

Helospectin II

Cat. No.:	HY-P3050
CAS No.:	93585-83-2
Molecular Formula:	C ₁₈₀ H ₂₈₈ N ₄₆ O ₅₇
Molecular Weight:	4008.55
Sequence:	His-Ser-Asp-Ala-Thr-Phe-Thr-Ala-Glu-Tyr-Ser-Lys-Leu-Leu-Ala-Lys-Leu-Ala-Leu-Gln-Lys-Tyr-Leu-Glu-Ser-Ile-Leu-Gly-Ser-Ser-Thr-Ser-Pro-Arg-Pro-Pro-Ser
Sequence Shortening:	HSDATFTA EYSKLLAKLALQKYLESLGSSTSPRP
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Helospectin II is a neuropeptide of the vasoactive intestinal peptide (VIP) family. Helospectin II has vasodilatory and antihypertensive activities, and decreases blood pressure. Helospectin II is originally isolated from the salivary gland venom of the lizard <i>Heloderma suspectum</i> ^{[1][2]} .	
IC ₅₀ & Target	Vasoactive intestinal peptide (VIP) receptor ^[1]	
In Vitro	<p>Helospectin II (suffusion at 0.1 nM, in bicarbonate buffer for 30 min) evokes significant, sustained and similar vasodilation in the intact hamster cheek pouch^[1].</p> <p>Helospectin II relaxes the Phenylephrine-contracted rat femoral arteries with pEC₅₀ of 6.93^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
In Vivo	<p>Helospectin II (0.03-2 nmol/kg, 100 µL of infusion at the left jugular vein) reduces blood pressure in rats^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	SD rats ^[2]
	Dosage:	0.03, 0.3, 1, 2 nmol/kg
	Administration:	100 µL of infusion at the left jugular vein, followed by washing the catheter with 100 µL saline.
	Result:	Reduced the blood pressure, but was less effective than vasoactive intestinal peptide (VIP) in the low dose range.

REFERENCES

[1]. Tsueshita T, et al. Helospectin I and II evoke vasodilation in the intact peripheral microcirculation. *Peptides*. 2004 Jan;25(1):65-9.

[2]. Grundemar L, et al. Vascular effects of helodermin, helospectin I and helospectin II: a comparison with vasoactive intestinal peptide (VIP). Br J Pharmacol. 1990 Mar;99(3):526-8.

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

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