## Helospectin I

®

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Cat. No.:	НҮ-Р3053	
CAS No.:	93438-37-0	
Molecular Formula:	C <sub>183</sub> H <sub>293</sub> N <sub>47</sub> O <sub>59</sub>	
Molecular Weight:	4095.63	
Sequence Shortening:	HSDATFTAEYSKLLAKLALQKYLESILGSSTSPRPPSS	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Description	Helospectin I is a neuropeptide of the vasoactive intestinal peptide (VIP) family. Helospectin I has vasodilatory and antihypertensive activities, and decreases blood pressure. Helospectin I is originally isolated from the salivary gland venom of the lizard Heloderma suspectum <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	Vasoactive intestinal peptide (VIP) <sup>[1]</sup>		
In Vitro	Helospectin I (suffusion at 0.1 nM, in bicarbonate buffer for 30 min) evokes significant, sustained and similar vasodilation in the intact hamster cheek pouch <sup>[1]</sup> . Helospectin I relaxes the Phenylephrine-contracted rat femoral arteries with pEC <sub>50</sub> of 6.82 <sup>[2]</sup> . Helospectin I (0.1 nM-1 μM) inhibits the binding of 125I-labeled VIP and 125I-secretin to dispersed chief cells <sup>[4]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Helospectin I (0.03-2 nmol/kg, 100 μL of infusion at the left jugular vein) reduces blood pressure in rats <sup>[2]</sup> . Helospectin I (0.1-0.8 nmol /kg, i.v.) increases plasma levels of glucagon in mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Dosage:	0.03, 0.3, 1, 2 nM/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.	
	Animal Model:	Mice <sup>[3]</sup>	
	Dosage:	0.1, 0.2, 0.4, 0.8 nM /kg	
	Administration:	Intravenous injection (i.v.)	

Product Data Sheet

Result:

## 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.

[3]. Ahrén B. Effects of helospectin I on insulin and glucagon secretion in the mouse. Br J Pharmacol. 1991 Apr;102(4):916-8.

[4]. Rai A, et al. Actions of Helodermatidae venom peptides and mammalian glucagon-like peptides on gastric chief cells. Am J Physiol. 1993 Jul;265(1 Pt 1):G118-25.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA