

Uperolein

Cat. No.:	HY-P2793
CAS No.:	55601-63-3
Molecular Formula:	C ₅₇ H ₇₉ N ₁₃ O ₁₆ S
Molecular Weight:	1234.38
Sequence Shortening:	{Pyr}-PDPNAFYGLM-NH2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Uperolein is a physalaemin-like endecapeptide, produced in the skin of Uperoleia rugosa and Uperoleia marmorata. Uperolein has a spasmodic effect on both the gastrointestinal tract and longitudinal muscles ^{[1][2][3]} .
In Vitro	<p>Caution: Product has not been fully validated for medical applications. For research use only.</p> <p>Uperolein (10-100 ng/mL) is a tachykinin analogue, causes or reinforces rhythmic movements and increases the tone in isolated circular and longitudinal muscle of the human gastrointestinal tract from the stomach to the colon^[2].</p> <p><small>Tel: 609-228-6898 Fax: 609-229-5909 E-mail: tech@MedChemExpress.com</small></p> <p><small>Address: 1 Deer Park Dr., Suite Q, Monroeth Junction, NJ 08852, USA</small></p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	Uperolein (0.1 µg/kg and 5 µg/kg; i.v.; single dose) exhibits stimulation activity on the stomach of the anesthetized rat, displays a noticeable spasmogenic activity on the whole stomach from the fundus to the pylorus ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Poulter L, et al. Levitide, a neurohormone-like peptide from the skin of Xenopus laevis. Peptide and peptide precursor cDNA sequences. J Biol Chem. 1988 Mar 5;263(7):3279-83.
- [2]. Anastasi A, et al. Structure of uperolein, a physalaemin-like endecapeptide occurring in the skin of Uperoleia rugosa and Uperoleia marmorata. Experientia. 1975 Apr 15;31(4):394-5.
- [3]. Zappia L, et al. Effects of natural analogues of substance P on the motility of human gastrointestinal tract in vitro. J Pharm Pharmacol. 1978 Sep;30(9):593-4.
- [4]. Bertaccini G, et al. Action of some natural peptides on the stomach of the anaesthetized rat. Naunyn Schmiedebergs Arch Pharmacol. 1977 Jun;298(2):163-6.