

Urotensin II (114-124), human

Cat. No.:	HY-P1164
CAS No.:	251293-28-4
Molecular Formula:	C ₆₄ H ₈₅ N ₁₃ O ₁₈ S ₂
Molecular Weight:	1388.57
Sequence:	Glu-Thr-Pro-Asp-Cys-Phe-Trp-Lys-Tyr-Cys-Val (Disulfide bridge: Cys5-Cys7)
Sequence Shortening:	ETPDCFWKYCV (Disulfide bridge: Cys5-Cys7)
Target:	Urotensin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Urotensin II (114-124), human, an 11-amino acid residue peptide, is a potent vasoconstrictor and agonist for the orphan receptor GPR14.
IC ₅₀ & Target	GPR14 ^[1]
In Vitro	Human Urotensin II (U-II) binds to recombinant human GPR14 with high affinity, and the binding is functionally coupled to calcium mobilization. Human Urotensin II induces concentration-dependent increases in intracellular calcium in a HEK-293 cell line expressing human GPR14 (EC ₅₀ =0:62±0.17 nM, n=6) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Human Urotensin II (U-II) markedly increases total peripheral resistance in anaesthetized non-human primates, a response associated with profound cardiac contractile dysfunction ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ames RS, et al. Human urotensin-II is a potent vasoconstrictor and agonist for the orphan receptor GPR14. Nature. 1999 Sep 16;401(6750):282-6.

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

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