

Urotensin II, mouse

Cat. No.:	HY-P1483
CAS No.:	405137-01-1
Molecular Formula:	C ₇₆ H ₁₀₀ N ₁₈ O ₁₉ S ₂
Molecular Weight:	1633.85
Sequence:	{pGlu}-His-Gly-Ala-Ala-Pro-Glu-Cys-Phe-Trp-Lys-Tyr-Cys-Ile (Disulfide bridge: Cys8-Cys13)
Sequence Shortening:	{pGlu}-HGAAPECFWKYCI (Disulfide bridge: Cys8-Cys13)
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, mouse is an endogenous ligand for the orphan G-protein-coupled receptor GPR14 or SENR. Urotensin II, mouse is a potent vasoconstrictor. Urotensin II, mouse plays a physiological role in the central nervous system ^[1] .								
IC₅₀ & Target	GPR14 ^[1]								
In Vitro	<p>This sequence of the C-terminus cyclic region of Urotensin II (U-II) is completely conserved in most species, including in the fish, frog, human, porcine, rat, and mouse, and it is thought to be essential for the agonistic activity of U-II. Urotensin II plays a physiological role in the central nervous system. Intracerebroventricular administration of Urotensin II induces angiogenic-like behaviors in the elevated plus maze test and the hole-board test in mice in a dose-dependent manner, as do corticotropin releasing factor (CRF). The effective doses of Urotensin II are 10-100-fold higher than these of CRF in these tests^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>Urotensin II is a somatostatin-like cyclic peptide which functions as an arterial vasoconstrictor, vasodilator, and bronchoconstriction mediator^[1].</p> <p>Urotensin II (0.1 nmol, 0.3 nmol, and 3 nmol; intracerebroventricular administration) induces angiogenic-like behaviors in the elevated plus maze test and the hole-board test in mice in a dose-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male C57BL/6N mice (8 weeks old)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.1 nmol, 0.3 nmol, and 3 nmol</td> </tr> <tr> <td>Administration:</td> <td>Intracerebroventricular (i.c.v.) administration</td> </tr> <tr> <td>Result:</td> <td>Decreased the amount of head dipping without significant alteration of the motor activity.</td> </tr> </table>	Animal Model:	Male C57BL/6N mice (8 weeks old) ^[1]	Dosage:	0.1 nmol, 0.3 nmol, and 3 nmol	Administration:	Intracerebroventricular (i.c.v.) administration	Result:	Decreased the amount of head dipping without significant alteration of the motor activity.
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Result:	Decreased the amount of head dipping without significant alteration of the motor activity.								

REFERENCES

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

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