

## Urotensin II, mouse acetate

**Cat. No.:** HY-P1483B  
**Molecular Formula:** C<sub>78</sub>H<sub>104</sub>N<sub>18</sub>O<sub>21</sub>S<sub>2</sub>  
**Molecular Weight:** 1693.91  
**Target:** Urotensin Receptor  
**Pathway:** GPCR/G Protein  
**Storage:** Sealed storage, away from moisture  
 Powder -80°C 2 years  
 -20°C 1 year

{pGlu}HGAAPECFWKYCI (Disulfide bridge: Cys<sub>8</sub>-Cys<sub>13</sub>)



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (59.04 mM; Need ultrasonic)			
	Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.5904 mL	2.9518 mL	5.9035 mL
	5 mM	0.1181 mL	0.5904 mL	1.1807 mL
	10 mM	0.0590 mL	0.2952 mL	0.5904 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.48 mM); Clear solution
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.48 mM); Clear solution

### BIOLOGICAL ACTIVITY

<b>Description</b>	Urotensin II, mouse acetate is an endogenous ligand for the orphan G-protein-coupled receptor GPR14 or SENR. Urotensin II, mouse acetate is a potent vasoconstrictor. Urotensin II, mouse acetate plays a physiological role in the central nervous system <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	GPR14 <sup>[1]</sup>
<b>In Vivo</b>	<p>Urotensin II is a somatostatin-like cyclic peptide which functions as an arterial vasoconstrictor, vasodilator, and bronchoconstriction mediator<sup>[1]</sup>.</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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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Animal Model:	Male C57BL/6N mice (8 weeks old) <sup>[1]</sup>
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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## REFERENCES

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[1]. Matsumoto Y, et al. Intracerebroventricular administration of urotensin II promotes angiogenic-like behaviors in rodents. *Neurosci Lett.* 2004 Mar 25;358(2):99-102.

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

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