

Urotensin II, mouse TFA

Cat. No.:	HY-P1483A		
Molecular Formula:	C ₇₈ H ₁₀₁ N ₁₈ F ₃ O ₂₁ S ₂		
Molecular Weight:	1747.88		
Target:	Urotensin Receptor	{pGlu}HGAAPFCFWKYCI (Disulfide bridge: Cys ₈ -Cys ₁₃) (TFA salt)	
Pathway:	GPCR/G Protein		
Storage:	Sealed storage, away from moisture		
	Powder	-80°C	2 years
		-20°C	1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (28.61 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.5721 mL	2.8606 mL	5.7212 mL
		5 mM	0.1144 mL	0.5721 mL	1.1442 mL
10 mM	0.0572 mL	0.2861 mL	0.5721 mL		
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (57.21 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Urotensin II, mouse TFA is an endogenous ligand for the orphan G-protein-coupled receptor GPR14 or SENR. Urotensin II, mouse TFA is a potent vasoconstrictor. Urotensin II, mouse TFA plays a physiological role in the central nervous system ^[1] .	
IC₅₀ & Target	GPR14 ^[1]	
In Vivo	Urotensin II is a somatostatin-like cyclic peptide which functions as an arterial vasoconstrictor, vasodilator, and bronchoconstriction mediator ^[1] . Urotensin II (0.1 nmol, 0.3 nmol, and 3 nmol; intracerebroventricular administration) induces anxiogenic-like behaviors in the elevated plus maze test and the hole-board test in mice in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	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.

REFERENCES

[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.

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

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