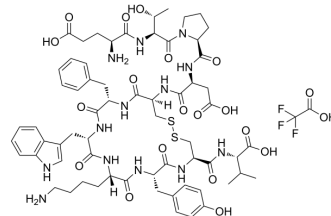


Urotensin II (114-124), human TFA

Cat. No.:	HY-P1164A
Molecular Formula:	C ₆₆ H ₈₆ F ₃ N ₁₃ O ₂₀ S ₂
Molecular Weight:	1502.59
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:	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 : 100 mg/mL (66.55 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
			1 mM	0.6655 mL	3.3276 mL	6.6552 mL
			5 mM	0.1331 mL	0.6655 mL	1.3310 mL
			10 mM	0.0666 mL	0.3328 mL	0.6655 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 (66.55 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Urotensin II (114-124), human TFA, 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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