

Urotensin II (114-124), human

Chemical Properties

CAS No.:	251293-28-4
Formula:	C ₆₄ H ₈₅ N ₁₃ O ₁₈ S ₂
Molecular Weight:	1388.57
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Urotensin II (114-124), human, an 11-amino acid residue peptide, is a potent vasoconstrictor and agonist for the orphan receptor GPR14.
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].
In vivo	Human Urotensin II (U-II) markedly increases total peripheral resistance in anesthetized non-human primates, a response associated with profound cardiac contractile dysfunction[1].

Solubility Information

Solubility	H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.72 mL	3.601 mL	7.202 mL
5 mM	0.144 mL	0.72 mL	1.44 mL
10 mM	0.072 mL	0.36 mL	0.72 mL
50 mM	0.014 mL	0.072 mL	0.144 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

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