

## Urotensin II (114-124), human acetate

## Chemical Properties

CAS No. :

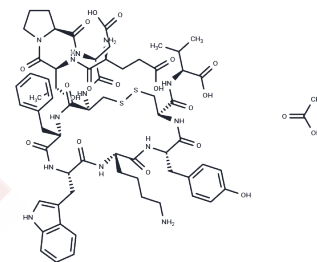
Formula: C66H89N13O20S2

Molecular Weight: 1448.63

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Urotensin II (114-124), human acetate is an 11-amino acid residue peptide, is a potent vasoconstrictor and agonist for the orphan receptor GPR14.
Targets(IC50)	GPCR
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 (EC50=0:62±0.17 nM, n=6)[1].
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].

## Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.6903 mL	3.4515 mL	6.9031 mL
5 mM	0.1381 mL	0.6903 mL	1.3806 mL
10 mM	0.069 mL	0.3452 mL	0.6903 mL
50 mM	0.0138 mL	0.069 mL	0.1381 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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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