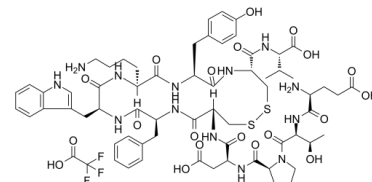


Data Sheet

Product Name:	Urotensin II (114-124), human (TFA)
Cat. No.:	CS-0096034
Molecular Formula:	C ₆₆ H ₈₆ F ₃ N ₁₃ O ₂₀ S ₂
Molecular Weight:	1502.59
Target:	Others
Pathway:	Others
Solubility:	H ₂ O



BIOLOGICAL ACTIVITY:

Urotensin II (114-124), human TFA, an 11-amino acid residue peptide, is a potent vasoconstrictor and agonist for the orphan receptor **GPR14**. IC₅₀ & 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 (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].

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.

CAIndexNames:

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

SMILES:

O=C([C@@H](NC([C@@H](CSCC[C@@H](C(N[C@H](C(O)=O)C(C)C)=O)NC([C@H](CC1=CC=C(O)C=C1)NC([C@@H](CCCCN)([H]))NC2=O)=O)([H]))NC([C@H](CC(O)=O)NC([C@H]3N(CCC3)C([C@H]([C@H](O)C)NC([C@@H](N)CCC(O)=O)=O)=O)=O)CC4=CC=CC=C4)N[C@H]2CC5=CNC6=C5C=CC=C6.OC(C(F)(F)F)=O

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

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