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**Product Data Sheet**


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Product Name: Urotensin II (human)

Cat. No.: GC18145

**Chemical Properties**

Cas. No. 251293-28-4

Chemical Name (S,Z)-5-(((2S,3R)-1-((S)-2-((Z)-((S,Z)-1-(((4R,5Z,7S,8Z,10S,11Z,13S,14Z,16S,17Z,19R)-13-((1H-indol-3-yl)methyl)-10-(4-aminobutyl)-16-benzyl-4-((Z)-((S)-1-carboxy-2-methylpropyl)imino)(hydroxy)methyl)-6,9,12,15,18-pentahydroxy-7-(4-hydroxybenzyl)-1,2-dit

SMILES CC([C@@]/N=C(O)/[C@]1([H])CSSC[C@@]/N=C(O)/[C@]/N=C(O)/[C@]2([H])CCCN2C([C@]/N=C(O)/[C@](N)([H])CCC(O)=O)([H])[C@@](O)([H])C=O)([H])CC(O)=O([H])/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/[C@@]/C(O)=N/1)([H])CC3=CC=C(O)C=C3([H])CCCCN([H])CC

Formula C<sub>64</sub>H<sub>85</sub>N<sub>13</sub>O<sub>18</sub>S<sub>2</sub> M.Wt 1388.57

Solubility Soluble in 20% acetonitrile / sterile Water Storage Desiccate at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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

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<sub>50</sub>=0:62±0.17 nM, n=6)[1].

Human Urotensin II (U-II) markedly increases total peripheral resistance in anaesthetized

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

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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.

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