

Urotensin II, mouse

Chemical Properties

CAS No.:	9047-55-6
Formula:	C76H100N18O19S2
Molecular Weight:	1633.86
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	<p>Jump to search UTS2</p> <p>Identifiers Aliases UTS2, PRO1068, U-II, UCN2, Ull, urotensin 2 External IDs OMIM: 604097 MGI: 1346329 HomoloGene: 4939 GeneCards: UTS2 hide Gene location (Human)</p> <p>Chr. Chromosome 1 (human)[1]</p> <p>Band 1p36.23 Start 7,843,083 bp[1] End 7,853,512 bp[1] show Gene location (Mouse) hide RNA expression pattern</p> <p>More reference expression data show Gene ontology Orthologs Species Human Mouse Entrez</p> <p>10911</p> <p>24111 Ensembl</p> <p>ENSG00000049247</p>
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ENSMUSG00000028963

UniProt

O95399

Q9QZQ3

RefSeq (mRNA)

NM_006786

NM_021995

NM_011910

RefSeq (protein)

NP_006777

NP_068835

NP_036040

Location (UCSC)

Chr 1: 7.84 – 7.85 Mb

Chr 4: 151 – 151 Mb

PubMed search

[3]

[4]

Wikidata

View/Edit Human

View/Edit Mouse

Urotensin-II

Names

IUPAC name

L- α -glutamyl-L-threonyl-L-prolyl-L- α -aspartyl-L-cysteinyl-L-phenylalanyl-L-tryptophyl-L-lysyl-L-tyrosyl-L-cysteinyl-L-valine (5 \rightarrow 10)-disulfide

Identifiers

3D model (JSmol)

Interactive image

ChEMBL

ChEMBL503037

ChemSpider

24646295

InChI

[show]

SMILES

[show]

Properties

Chemical formula

C₆₄H₈₅N₁₃O₁₈S₂

Molar mass

1388.6 g/mol

Except where otherwise noted, data are given for materials in their standard state (at 25 °C [77 °F], 100 kPa).

Infobox references

Urotensin-II (U-II) is a peptide ligand that is the strongest known vasoconstrictor.

In vitro

This sequence of the C-terminus cyclic region of Urotensin II (U-II) is completely conserved in most species, including in the fish, frog, human, porcine, rat, and mouse, and it is thought to be essential for the agonistic activity of U-II. Urotensin II plays a physiological role in the central nervous system. Intracerebroventricular administration of Urotensin II induces anxiogenic-like behaviors in the elevated plus maze test and the hole-board test in mice in a dose-dependent manner, as do corticotropin releasing factor (CRF). The effective doses of Urotensin II are 10-100-fold higher than these of CRF in these tests[1].

Solubility Information

Solubility

H₂O: Soluble

(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.612 mL	3.06 mL	6.12 mL
5 mM	0.122 mL	0.612 mL	1.224 mL
10 mM	0.061 mL	0.306 mL	0.612 mL
50 mM	0.012 mL	0.061 mL	0.122 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. Matsumoto Y, et al. Intracerebroventricular administration of urotensin II promotes anxiogenic-like behaviors in rodents. *Neurosci Lett.* 2004 Mar 25;358(2):99-102.

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