Certificate of Analysis

Product Name: **Urotensin II-related peptide** **Catalog No.: 2215** **Batch No.: 1**

CAS Number: 342878-90-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{49}H_{64}N_{10}O_{10}S_2$
Batch Molecular Weight:	1017.23
Physical Appearance:	White lyophilised solid
Net Peptide Content:	70%
Solubility:	Soluble to 1 mg/ml in 5% acetonitrile / water
Storage:	Desiccate at -20°C
Peptide Sequence:	Ala-Cys-Phe-Trp-Lys-Tyr-Cys-Val

2. ANALYTICAL DATA

HPLC:	Shows >95% purity
Mass Spectrum:	Consistent with structure

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CAS Number: 342878-90-4

Description:

Potent endogenous agonist for the urotensin-II (UT) receptor. Binds with high affinity and potently activates recombinant rat and human UT receptors (EC_{50} values are 0.55 and 4.8 nM respectively). Produces hypotensive effects following systemic administration in rats.

Physical and Chemical Properties:

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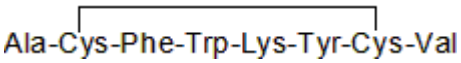
Batch Molecular Weight: 1017.23

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 5% acetonitrile / water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 70% (Remaining weight made up of counterions and residual water).

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Sugo *et al* (2003) Identification of urotensin II-related peptide as the urotensin II-immunoreactive molecule in the rat brain. Biochem.Biophys.Res.Comm. ***310*** 860.

Mori and Fujino (2004) Urotensin II-related peptide, the endogenous ligand for the urotensin II receptor in the rat brain. Peptides ***25*** 1815. PMID: 15476951.

Chatenet *et al* (2004) Structure-activity relationships and structural conformation of a novel urotensin II-related peptide. Peptides ***25*** 1819. PMID: 15476952.