bio-techne
TOCRIS

Print Date: May 9th 2025

Certificate of Analysis

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Product Name: **Endothelin 3 (human, rat)** **Catalog No.: 1162** **Batch No.: 18**

CAS Number: 117399-93-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{121}H_{168}N_{26}O_{33}S_4$

Batch Molecular Weight: 2643

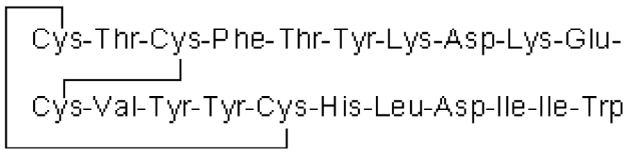
Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	1.99
Arg			Met		
Asx	2.00	2.00	Phe	1.00	1.00
Cys	4.00	1.93	Pro		
Glx	1.00	1.01	Ser		
Gly			Thr	2.00	1.53
His	1.00	1.00	Trp	1.00	0.07
Ile	2.00	1.66	Tyr	3.00	2.88
Leu	1.00	1.03	Val	1.00	1.09

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Product Name: **Endothelin 3 (human, rat)** **Catalog No.: 1162** **Batch No.: 18**

CAS Number: 117399-93-6

Description:

Endothelin 3 (human, rat) is an endogenous neuropeptide and potent vasoconstrictor. Displays selectivity for the putative ET_C endothelin receptor.

Physical and Chemical Properties:

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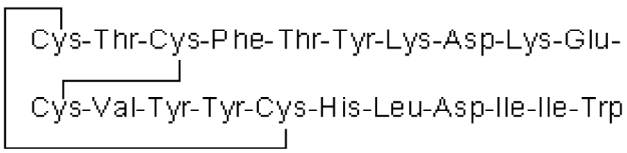

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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.

Counter Ion: TFA

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:

Servitja *et al* (1998) Involvement of ET_A and ET_B receptors in the activation of phospholipase D by endothelins in cultured rat cortical astrocytes. Br.J.Pharmacol. ***124*** 1728. PMID: 9756390.

Inoue *et al* (1989) The human endothelin family: three structurally and pharmacologically distinct isopeptides predicted by three separate genes. Proc.Natl.Acad.Sci.U.S.A. ***86*** 2863. PMID: 2649896.

Yanagisawa and Masaski (1989) Molecular biology and biochemistry of the endothelins. TiPS ***10*** 374. PMID: 2690429.