

**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** Endothelin 3 (human, rat)**Catalog No.:** 1162**Batch No.:** 19

CAS Number: 117399-93-6

**1. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Batch Molecular Formula:</b>	C <sub>121</sub> H <sub>168</sub> N <sub>26</sub> O <sub>33</sub> S <sub>4</sub>
<b>Batch Molecular Weight:</b>	2643
<b>Physical Appearance:</b>	White lyophilised solid
<b>Counter Ion:</b>	Trifluoroacetate
<b>Solubility:</b>	Soluble to 1 mg/ml in water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	Cys-Thr-Cys-Phe-Thr-Tyr-Lys-Asp-Lys-Glu- Cys-Val-Tyr-Tyr-Cys-His-Leu-Asp-Ile-Ile-Trp

**2. ANALYTICAL DATA**

<b>HPLC:</b>	Shows 97.8% purity
<b>Mass Spectrum:</b>	Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

	Amino Acid Theoretical		Amino Acid Theoretical	
Ala			Lys	2.00
Arg			Met	
Asx	2.00	2.01	Phe	1.00
Cys	4.00	2.02	Pro	
Glx	1.00	1.02	Ser	
Gly			Thr	2.00
His	1.00	0.99	Trp	1.00
Ile	2.00	1.57	Tyr	3.00
Leu	1.00	1.03	Val	1.00

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

# Product Information

[www.tocris.com](http://www.tocris.com)**Product Name:** Endothelin 3 (human, rat)**Catalog No.:** 1162**Batch No.:** 19

CAS Number: 117399-93-6

**Description:**

Endothelin 3 (human, rat) is an endogenous neuropeptide and potent vasoconstrictor. Displays selectivity for the putative ET<sub>C</sub> endothelin receptor.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>121</sub>H<sub>168</sub>N<sub>26</sub>O<sub>33</sub>S<sub>4</sub>

Batch Molecular Weight: 2643

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Cys-Thr-Cys-Phe-Thr-Tyr-Lys-Asp-Lys-Glu-  
Cys-Val-Tyr-Tyr-Cys-His-Leu-Asp-Ile-Ile-Trp

**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:** Trifluoroacetate**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 as 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<sub>A</sub> and ET<sub>B</sub> 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.

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