

Certificate of Analysis

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Product Name: Endothelin 3 (human, rat)

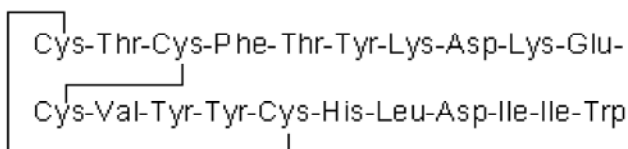
Catalog No.: 1162

Batch No.: 14

CAS Number: 117399-93-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂₁H₁₆₈N₂₆O₃₃S₄
Batch Molecular Weight: 2643
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 97.2% 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	2.01	Phe	1.00	0.98		
Cys	4.00	1.77	Pro				
Glx	1.00	1.01	Ser				
Gly			Thr	2.00	1.61		
His	1.00	0.99	Trp	1.00	Detected		
Ile	2.00	1.63	Tyr	3.00	2.91		
Leu	1.00	0.99	Val	1.00	1.12		

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

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Catalog No.: 1162

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Description:

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

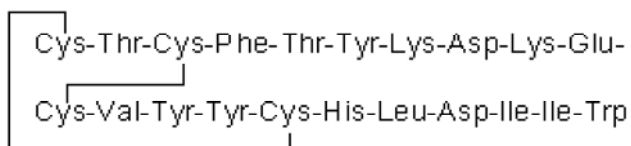
Physical and Chemical Properties:

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Batch Molecular Weight: 2643

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 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.

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_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.

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