

Certificate of Analysis

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Product Name:	Parstatin (human)
CAS Number:	1065755-99-8

TOCRIS

a biotechne brand

Catalog No.: 3553

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Net Peptide Content: Counter Ion: Solubility: Storage:	$C_{191}H_{330}N_{64}O_{53}S_3$ 4467.29 White lyophilised solid 84.7% TFA Soluble to 1 mg/ml in water Store at -20°C
replide Sequence.	Ala-Cys-Phe-Ser-Leu-Cys-Gly-Pro-Leu-Leu- Ser-Ala-Arg-Thr-Arg-Ala-Arg-Arg-Pro-Glu- Ser-Lys-Ala-Thr-Asn-Ala-Thr-Leu-Asp-Pro- Arg
ANALYTICAL DATA	

2.

HPLC:	Shows 100% purity
Mass Spectrum:	Consistent with structur

3. AMINO ACID ANALYSIS DATA

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Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	6.00	6.00	Lys	1.00	1.00
Arg	7.00	6.80	Met	1.00	1.00
Asx	2.00	2.00	Phe	1.00	1.00
Cys	2.00	2.00	Pro	4.00	3.80
Glx	1.00	1.00	Ser	3.00	3.20
Gly	2.00	2.00	Thr	3.00	3.10
His			Trp		
lle			Tyr		
Leu	7.00	7.00	Val	1.00	1.00

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

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Description:

Cell-permeable peptide cleaved from protease-activated receptor 1 (PAR₁) upon receptor activation. Attenuates endothelial cell migration and proliferation (IC₅₀ ~ 3 µM), and induces cell cycle arrest. Promotes activation of caspase-3 and exhibits pro-apoptotic activity in vitro. Inhibits angiogenesis and exhibits cardioprotective activity in vivo. Parstatin (mouse) also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉₁H₃₃₀N₆₄O₅₃S₃ Batch Molecular Weight: 4467.29 Physical Appearance: White lyophilised solid

Peptide Sequence:

Met-Gly-Pro-Arg-Arg-Leu-Leu-Leu-Val-Ala-Ala-Cys-Phe-Ser-Leu-Cys-Gly-Pro-Leu-Leu-Ser-Ala-Arg-Thr-Arg-Ala-Arg-Arg-Pro-Glu-Ser-Lys-Ala-Thr-Asn-Ala-Thr-Leu-Asp-Pro-Arg Catalog No.: 3553

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Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

Net Peptide Content: 84.7% (Remaining weight made up of counterions and residual water).

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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Strande *et al* (2009) Parstatin: a cryptic peptide involved in cardioprotection after ischaemic and reperfusion injury. Cardiovasc.Res. **83** 325. PMID: 19380418.

Zania et al (2009) Parstatin, the cleaved peptide on proteinase-activated receptor 1 activation, is a potent inhibitor of activation. J.Pharmacol.Exp.Ther. 328 378. PMID: 18988770.

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