

Certificate of Analysis

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Product Name: Sarafotoxin S6c

Catalog No.: 1175

Batch No.: 13

CAS Number: 121695-87-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₃H₁₄₇N₂₇O₃₇S₅
Batch Molecular Weight: 2516
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:

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      │ Cys-Thr-Cys-Asn-Asp-Met-Thr-Asp-Glu-Glu-Cys-                                │
      │ ┌──────────────────────────────────────────────────────────────────────────┐    │
      │ │ Leu-Asn-Phe-Cys-His-Gln-Asp-Val-Ile-Trp                                │    │
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2. ANALYTICAL DATA

HPLC: Shows 96.4% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys		
Arg			Met	1.00	1.01
Asx	5.00	5.00	Phe	1.00	1.03
Cys	4.00	Detected	Pro		
Glx	3.00	2.97	Ser		
Gly			Thr	2.00	1.85
His	1.00	1.01	Trp	1.00	Detected
Ile	1.00	0.75	Tyr		
Leu	1.00	1.01	Val	1.00	0.75

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

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Description:

Sarafotoxin S6c is a highly selective ET_B endothelin receptor agonist (K_i values are 0.29 and 28000 nM at ET_B and ET_A receptors respectively).

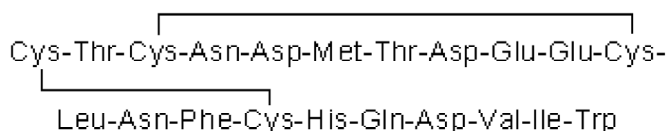
Physical and Chemical Properties:

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Batch Molecular Weight: 2516

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: 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 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:

Miasiro *et al* (1998) Distinct endothelin-B receptors mediate the effects of sarafotoxin S6c and IRL 1620 in the ileum. *J.Cardiovasc.Pharmacol.* **31** S175. PMID: 9595431.

Matsuo *et al* (1997) Effects of sarafotoxin S6c on antidiuresis and NE overflow induced by stimulation of renal nerves in anesthetized dogs. *J.Pharmacol.Exp.Ther.* **280** 905. PMID: 9023305.

Williams *et al* (1993) Characterization of cloned human endothelin receptors. *Life Sci.* **53** 407. PMID: 8336519.

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