

Product Name: Sarafotoxin S6c

Catalog No.: 1175

Batch No.: 8

CAS Number: 121695-87-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₃H₁₄₇O₃₇N₂₇S₅
Batch Molecular Weight: 2516
Physical Appearance: White lyophilised solid
Net Peptide Content: 82.6%
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:

```

      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 >98% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg			Met	1.00	1.06
Asx	5.00	5.06	Phe	1.00	0.85
Cys	4.00	3.09	Pro		
Glx	3.00	3.00	Ser		
Gly			Thr	2.00	1.93
His	1.00	1.15	Trp		
Ile	1.00	0.80	Tyr		
Leu	1.00	1.02	Val	1.00	0.91

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

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Description:

Highly selective ET_B endothelin receptor agonist (K_i values are 0.29 and 28000 nM at ET_B and ET_A receptors respectively).

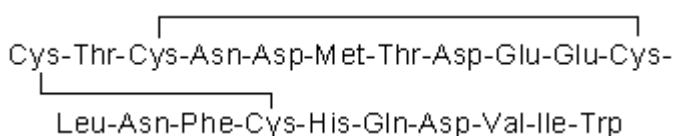
Physical and Chemical Properties:

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Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

Net Peptide Content: 82.6% (Remaining weight made up of counterions and residual water).

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).

References:

Williams et al (1991) Sarafotoxin S6c: an agonist which distinguishes between endothelin receptor subtypes. *Biochem.Biophys.Res.Commun.* **175** 556. PMID: 1850245.

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

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

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.

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