

PRODUCT INFORMATION



Sarafotoxin S6c (trifluoroacetate salt)

Item No. 30040

Formal Name: L-cysteinyl-L-threonyl-L-cysteinyl-L-asparaginyl-L- α -aspartyl-L-methionyl-L-threonyl-L- α -aspartyl-L- α -glutamyl-L- α -glutamyl-L-cysteinyl-L-leucyl-L-asparaginyl-L-phenylalanyl-L-cysteinyl-L-histidyl-L-glutamyl-L- α -aspartyl-L-valyl-L-iso-leucyl-L-tryptophan, cyclic (1 $\rightarrow$ 15),(3 $\rightarrow$ 11)-bis(disulfide), trifluoroacetate salt

Synonyms: SRTX-c, STX-S6c

Peptide Sequence: CTCNDMTDEECLNFCHQDVIW-OH

MF: C₁₀₃H₁₄₇N₂₇O₃₇S₅ • XCF₃COOH

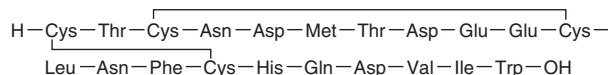
FW: 2,515.8

Purity: $\geq$ 98%

Supplied as: A solid

Storage: 20°C

Stability: $\geq$ 4 years



• XCF₃COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Sarafotoxin S6c (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the sarafotoxin S6c (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Sarafotoxin S6c (trifluoroacetate salt) is sparingly soluble (1-10 mg/ml) in DMSO.

Description

Sarafotoxin S6c is a snake venom-derived toxin and peptide endothelin type B (ET_B) receptor agonist.^{1,2} It induces phosphatidyl inositol turnover in rat hippocampal slices, which endogenously express the ET_B receptor, with an EC₅₀ value of approximately 10 nM.² Sarafotoxin S6c selectively binds to the ET_B receptor over the ET_A receptor (K_is = 0.023 and 4,200 nM for the rat hippocampal and atrial receptors, respectively).² It induces contractions in isolated dog saphenous vein segments and relaxation of isolated rabbit mesenteric artery segments in a concentration-dependent manner.³ It increases diastolic arterial pressure in pithed rats when administered at doses ranging from 0.01 to 3 nmol/kg.²

References

1. Takasaki, C., Tamiya, N., Bdolah, A., et al. Sarafotoxins S6: Several isotoxins from *Atractaspis engaddensis* (burrowing asp) venom that affect the heart. *Toxicon*. **26**(6), 543-548 (1988).
2. Williams, D.L., Jr., Jones, K.L., Pettibone, D.J., et al. Sarafotoxin S6c: An agonist which distinguishes between endothelin receptor subtypes. *Biochem. Biophys. Res. Commun.* **175**(2), 556-561 (1991).
3. Balwierczak, J.L., Bruseo, C.W., DelGrande, D., et al. Characterization of a potent and selective endothelin-B receptor antagonist, IRL 2500. *J. Cardiovasc. Pharmacol.* **26**(Suppl 3), S393-S396 (1995).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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