

## Sarafotoxin S6c

Cat. No.:	HY-102029
CAS No.:	121695-87-2
Molecular Formula:	C <sub>103</sub> H <sub>147</sub> N <sub>27</sub> O <sub>37</sub> S <sub>5</sub>
Molecular Weight:	2515.75
Sequence Shortening:	CTCNDMTDEECLNFCHQDVIW (Disulfide bridge: Cys1-Cys15; Cys3-Cys11)
Target:	Endothelin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	Sarafotoxin S6c (SRTX-c) is a potent endothelin-B receptor agonist. Sarafotoxin S6c can cause vasoconstriction in both endothelium-intact and endothelium-denuded vessels <sup>[1]</sup> .	
IC <sub>50</sub> & Target	Endothelin-B receptor <sup>[1]</sup>	
In Vivo	Sarafotoxin S6c can cause vasoconstriction in both endothelium-intact and endothelium-denuded vessels <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Wister rats, exposed to 10% O <sub>2</sub> [chronic hypoxic (CH) rats] or room air (control rats) for 2 weeks <sup>[1]</sup>
	Dosage:	1 pM-1 mM
	Administration:	
	Result:	Chronic hypoxia had effect on the sensitivity of the main pulmonary arteries to SCS6c, and small vasoconstrictor responses to were evident. Caused vasoconstriction with a maximum response 30% of that to ET-1 in both endothelium-intact and endothelium-denuded vessels.

### REFERENCES

[1]. MacLean MR, et al. Effects of pulmonary hypertension on vasoconstrictor responses to endothelin-1 and sarafotoxin S6C and on inherent tone in rat pulmonary arteries. J Cardiovasc Pharmacol. 1995 Nov;26(5):822-30.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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