



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Sarafotoxin S6d

Cat. No.:	HY-P3565
CAS No.:	1446991-36-1
Molecular Formula:	C <sub>112</sub> H <sub>163</sub> N <sub>27</sub> O <sub>34</sub> S <sub>5</sub>
Molecular Weight:	2591.98
Sequence:	Cys-Thr-Cys-Lys-Asp-Met-Thr-Asp-Lys-Glu-Cys-Leu-Tyr-Phe-Cys-His-Gln-Asp-Ile-Ile-Trp (disulfide bridge: Cys1-Cys15, Cys3-Cys11)
Sequence Shortening:	CTCKDMDTKECLYFCHQDIW (disulfide bridge: Cys1-Cys15, Cys3-Cys11)
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Sarafotoxin S6d (STX-b) is a polypeptide toxin isolated from the venom of the Israeli sand boa constrictor. Sarafotoxin S6d induces multiple electrocardiogram (ECG) changes including myocardial ischemia and hyperkalemia. Sarafotoxin S6d induces strong extracellular calcium-dependent vasoconstriction in rat aorta and exhibits positive inotropic effects in rat atria. Sarafotoxin S6d can be used in the study of cardiovascular diseases <sup>[1]</sup> .
<b>In Vivo</b>	Sarafotoxin S6d (0.3, 1.0, 3.0 and 5.0 nmol/kg; i.v.) can produce a constant pressure effect and a short pulse pressure increase at 0.3-3.0 nmol/kg. However, at 5.0 nmol/kg, Sarafotoxin S6d can cause a rapid drop in blood pressure, heart rate, and breathing rate after an initial increase, leading to the deaths of most mice within 10 minutes <sup>[1]</sup> . Sarafotoxin S6d (5.0 nmol/kg; i.v.) increases K <sup>+</sup> levels by 159% significantly. Additionally, plasma enzymes (LDH, CPK), IP, and glucose levels are also significantly elevated. LDH increases by 60%, CPK by 91%, IP by 137%, and glucose by 80% <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Lin W W, et al. Cardiovascular effects of two disulfide analogues of sarafotoxin S6b[J]. Toxicon, 1990, 28(8): 911-923.

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

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