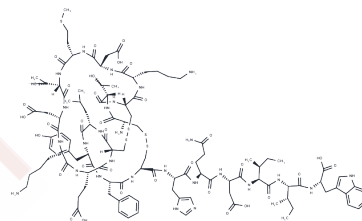


Sarafotoxin S6d

Chemical Properties

CAS No. :	1446991-36-1
Formula:	C ₁₁₂ H ₁₆₃ N ₂₇ O ₃₄ S ₅
Molecular Weight:	2591.98
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Sarafotoxin S6d (STX-b) is a peptide toxin isolated from the venom of the Israeli burrowing asp. It induces various Electrocardiogram (ECG) changes such as myocardial ischemia and hyperkalemia. In rat aortas, Sarafotoxin S6d causes intense vasoconstriction dependent on extracellular calcium ions and exhibits positive inotropic effects in rat atria. This compound is useful for research into cardiovascular diseases.
Targets(IC50)	Calcium Channel
In vivo	Sarafotoxin S6d, administered intravenously at dosages of 0.3, 1.0, and 3.0 nmol/kg, consistently produces a sustained pressor effect and a transient increase in pulse pressure. However, at a higher dosage of 5.0 nmol/kg, Sarafotoxin S6d initially raises the blood pressure, heart rate, and respiratory rate, only to precipitate a rapid decline in these parameters, leading to death within 10 minutes in most mice. At this dosage, there is also a significant elevation in K ⁺ levels by 159%. Furthermore, plasma enzymes such as LDH, CPK, IP, and glucose levels show notable increases, with LDH rising by 60%, CPK by 91%, IP by 137%, and glucose by 80%.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3858 mL	1.929 mL	3.8581 mL
5 mM	0.0772 mL	0.3858 mL	0.7716 mL
10 mM	0.0386 mL	0.1929 mL	0.3858 mL
50 mM	0.0077 mL	0.0386 mL	0.0772 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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