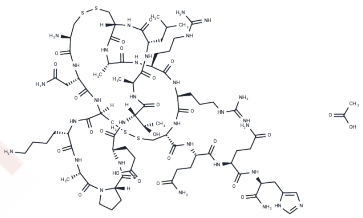
Data Sheet (Cat.No.TP1223L)

TargetMol

Apamin acetate

Chemical Properties



CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Apamin acetate (Apamine acetate) is a selective Ca2+-activated blocker of K+ (SK) channels, an 18-amino acid peptide neurotoxin found in bee toxins.Apamin acetate enhances synapse growth and regeneration following laceration injury to cortical neurons.Apamin acetate has anti-inflammatory and anti-fibrotic effects.
Targets(IC50)	Potassium Channel
In vitro	Apamin acetate (0.5-2 μg/mL; 24 h; HSC-T6 cells) treatment effectively diminishes α-SMA expression in TGF-β1-induced HSC-T6 cells. Furthermore, Apamin acetate treatment prevents the activation of p-Smad2/3 and Smad4 induced by TGF-β1.[1]
In vivo	Apamin acetate (0.1 mg/kg; i.p.; twice a week; for 4 weeks; C57BL/6 male mice) leads to reduced liver injury and lowered proinflammatory cytokine levels. Additionally, it inhibits collagen deposition, bile duct epithelial cell (BEC) proliferation, and the expression of fibrogenic genes in DDC-fed mice.[1]

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