Product Data Sheet

Product Name: Apamin TFA
Cat. No.: GC38557

Chemical Properties

Cas. No.

Formula	$C_{81}H_{132}F_3N_{31}O_{26}S_4$	M.Wt	2141.36
Solubility	H_2O : 50 mg/mL (23.35 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Apamin TFA		

Background

Apamin TFA (Apamine TFA) is an 18 amino acid peptide neurotoxin found in apitoxin (bee venom), is known as a specifically selective blocker of Ca2+-activated K+ (SK) channels and exhibits anti-inflammatory and anti-fibrotic activity[1].

Apamin (0.5-2 μg/mL; 24 hours; HSC-T6 cells) treatment markedly reduces the expression of α-SMA in the TGF-β1-induced HSC-T6 cells. Apamin treatment abrogats the activation of p-Smad2/3 and Smad4 induced by TGF-β1[1]. Western Blot Analysis[1] Cell Line: HSC-T6 cells

Apamin (0.1 mg/kg; intraperitoneal injection; twice a week; for 4 weeks; C57BL/6 male mice) treatment results in decreased liver injury and proinflammatory cytokine levels. Apamin suppresses the deposition of collagen, proliferation of BECs and expression of fibrogenic genes in the 3,5-diethoxycarbonyl-1,4-dihydrocollidine (DDC)-fed mice[1]. Animal Model: 8-week-old C57BL/6 male mice (20-25 g) with DDC feeding[1]

[1]. Kim JY, et al. Apamin suppresses biliary fibrosis and activation of hepatic stellate cells. Int J Mol Med. 2017 May;39(5):1188-1194.

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