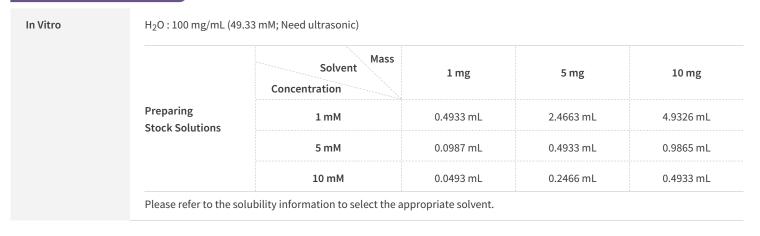
RedChemExpress

Apamin

| HY-P0256 | | |
|---|--|--|
| 24345-16-2 | | |
| $C_{79}H_{131}N_{31}O_{24}S_{4}$ | | |
| | | |
| Cys-Asn-Cys-Lys-Ala-Pro-Glu-Thr-Ala-Leu-Cys-Ala-Arg-Arg-Cys-Gln-Gln-His-NH2 (Disul | | |
| CNCKAPETALCARRCQQH-NH2 (Disulfide bridge: Cys1-Cys11;Cys3-Cys15) | | |
| Potassium Channel | | |
| Membrane Transporter/Ion Channel | | |
| Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) | | |
| | | |

SOLVENT & SOLUBILITY



| BIOLOGICAL ACTIV | ТТ | | |
|---------------------------|--|--|--|
| Description | Apamin (Apamine) is an 18 amino acid peptide neurotoxin found in apitoxin (bee venom), is known as a specifically selective blocker of Ca ²⁺ -activated K ⁺ (SK) channels and exhibits anti-inflammatory and anti-fibrotic activity ^[1] . | | |
| IC ₅₀ & Target | K ⁺ channel ^[1] | | |
| In Vitro | 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1] | | |
| | Cell Line: HSC-T6 cells | | |

| | Concentration: | 0.5 μg/mL, 1 μg/mL and 2 μg/mL | |
|---------|--|--|--|
| | Incubation Time: | 24 hours | |
| | Result: | Markedly reduced the expression of α -SMA in the TGF- β 1-induced HSC-T6 cells. Abrogated the activation of p-Smad2/3 and Smad4 induced by TGF- β 1. | |
| In Vivo | 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | Animal Model: | 8-week-old C57BL/6 male mice (20-25 g) with DDC feeding $^{\left[1 ight]}$ | |
| | Dosage: | 0.1 mg/kg | |
| | Administration: | Intraperitoneal injection; twice a week; for 4 weeks | |
| | Result: | Resulted in decreased liver injury and proinflammatory cytokine levels. Suppressed the deposition of collagen, proliferation of BECs and expression of fibrogenic genes in the | |

CUSTOMER VALIDATION

• Cell Calcium. 2022 Jun;104:102571.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA