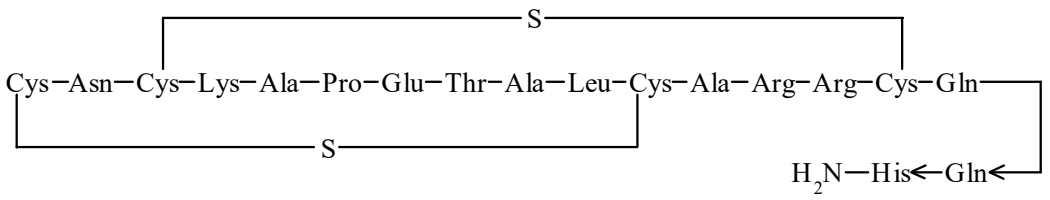
>>**Entry Name: Apamin**



CAS Registry Number: 24345-16-2

Molecular Formula: $C_{79}H_{131}N_{31}O_{24}S_4$
Molecular Weight: 2027.361
Accurate Mass: 2025.886609
Percentage Composition: C 46.80%; H 6.51%; N 21.42%; O 18.94%; S 6.33%
Biological Source: Peptide from bee venom
Use/Importance: Selectively blocks Ca^{2+}-activated potassium channels. Toxin showing CNS excitatory effect
Hazard & Toxicity: Highly toxic

Fluka: 10796
Sigma: A9459

References:

Shipolini, R. *et al.*, *Chem. Comm.*, 1967, 679, *(struct)*
Granier, C. *et al.*, *Bull. Inst. Pasteur (Paris)*, 1976, **74**, 51, *(synth)*
Sandberg, B.E.B. *et al.*, *Int. J. Pept. Protein Res.*, 1978, **11**, 238, *(synth)*
Bystrov, V.F.*, J. Magn. Reson.*, 1978, **30**, 151, *(nmr, conformn)*
Wemmer, D. *et al.*, *Biochemistry*, 1983, **22**, 1901, *(nmr, conformn)*
L'abbé-Jullié, C. *et al.*, *Eur. J. Biochem.*, 1991, **196**, 639, *(synth, tox)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, AQN650