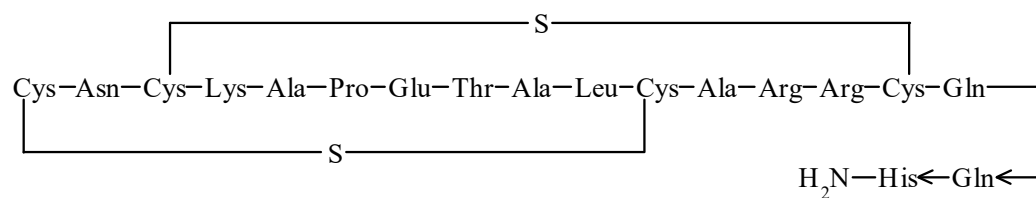




>>Entry Name: Apamin



CAS Registry Number: 24345-16-2

Molecular Formula: C₇₉H₁₃₁N₃₁O₂₄S₄

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 Ca²⁺-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