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Synthesis and bioassay of natural macrocyclic peptide

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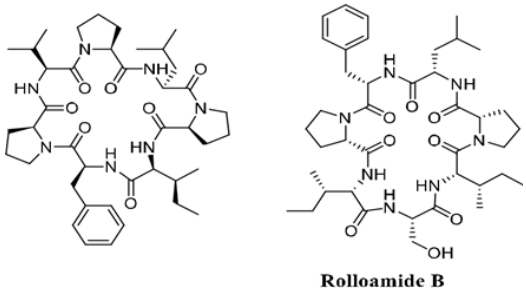
Cyclic peptides now draw considerable attention as potential therapeutics due to their roles as mediators of key biological functions together with low toxicity and high specificity. Well-known examples of cyclic peptide drugs include the natural antibiotic vancomycin, hormone oxytocine, neuropeptide vasopressin and antibiotics cyclosporine and tyrocidine.A facile and economic strategy was developed to synthesize naturally occurring macrocyclic peptides Rollo amide A and B in a good yield.



Rolloamide B

The substances showed strikingly high activity against Candida albicans and three Gram-negative bacterial strains. An excellent selectivity with respect to human cells was found, which implies low human toxicity.

Biography

Mohamed Elagawany has completed his PhD at the age of 28 years from Zagazig University in collaboration with University of Florida. He is associate professor at Department of Pharmaceutical chemistry, Damanhour University, Egypt. He has published more than 30 papers in reputed journals.