

The unusual binding abilities of the His-analogue of Arg-vasopressin towards Cu²⁺.

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Streszczenie

A new vasopressin analogue, [His^{1,6}]AVP, was synthesized and characterized by potentiometric measurements as well as by UV-Vis, CD and EPR spectroscopy. At the physiological pH the peptide forms a stable complex with Cu²⁺ ions which is characterized by the {NH₂, N_{Im}, N_{Im(macrochelate)}} binding mode. The replacement of both Cys by His residues in the vasopressin sequence results in a very significant increase in the efficiency of Cu²⁺ binding.

Adres publiczny

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