

Copper (II) complexes of deltakephalin and its analogues containing α -hydroxymethylserine.

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Streszczenie

Potentiometric and spectroscopic data have shown that deltakephalin and its derivatives containing the α -hydroxymethylserine (HmS) residue in the second and in the second and sixth positions form the same series of complexes: CuHL, CuL, CuH₋₁L, CuH₋₂L and CuH₋₃L (1N to 4N binding mode). The alcoholic groups in the amino acid side chain are very effective in the stabilization of the complexes formed (the protonation corrected stability constants, $\log K^*$, values of 4N complexes are -22.55 and -21.15 for deltakephalin and its derivative containing the HmS residue in the second and sixth positions, respectively). There is no evidence for the direct involvement of alcoholic groups of HmS in binding of Cu²⁺ ions and there is no indication of binding through the tyrosine-phenolate oxygen atoms, either.

Adres publiczny

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