



The unusual coordination abilities of the peptides with β XaaHisGlyHis sequence. The influence of structural modification if the peptide chain on the copper(II) binding.

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Streszczenie

The coordination abilities of tetrapeptides containing β -amino acids towards Cu(II) ions are presented. The studied tetrapeptides were: Ac- β AlaHisGlyHis, β AlaHisGlyHis, Ac- β AspHisGlyHis, β AspHisGlyHis, Ac- β AspHisGly-DHis and β AspHisGly-DHis. Thorough potentiometric titrations were carried out to establish the stoichiometry of the resulting metal-ligand complexes and the role of free $-\alpha\text{COO}^-$ side chain group in metal binding. The copper(II) coordination mode of the complexes was investigated by performing detailed spectroscopic analyses (UV-Vis, EPR, CD) in strict correlation with potentiometric measurements.

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