

Binding ability of α -ketoamide unit in amino acid derivatives.

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An X-ray study of pyruvyl-L-methionine has shown that in the α -ketoamide group, the CO-CO bond is in trans orientation. Potentiometric and spectroscopic (EPR, CD, UV-VIS) studies of this ligand with Cu^{2+} indicated that α -ketoamides of amino acids are efficient chelating agents for cupric ions able to involve their amide nitrogen in metal ion binding without the need for an anchoring site, e.g., in peptides. The likely modification of pyruvic moiety in basic solution (hydration) may have a distinct effect on the binding ability of the title ligands.

Adres publiczny

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