

Synthesis and structure of the mixed ligand complex of copper(II), bis(9,10-dihydro-9-oxo-10-acridineacetato)bis(imidazole)copper(II) tetrahydrate.

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Streszczenie

The new ternary compound $\text{Cu}(\text{CMA})_2(\text{Him})_2 \cdot 4\text{H}_2\text{O}$ (where $\text{CMA}^- = 9,10\text{-dihydro-9-oxo-10-acridineacetate}$ ion) has been synthesized and investigated by X-ray analysis, UV-Vis, EPR, IR and Raman spectroscopy. Magnetic susceptibility was measured in the range 4–300 K. The crystal structure consists of neutral monomers $\text{Cu}(\text{CMA})_2(\text{Him})_2$ linked by intermolecular hydrogen bonds with water molecules. The copper(II) ion is in a tetragonally elongated octahedral $\text{O}_2\text{N}_2\text{O}'_2$ environment. Magnetic and spectroscopic results support the X-ray data. The synthesis, crystal structure, spectroscopic and magnetic data of a new ternary complex of Cu(II) with 9,10-dihydro-9-oxo-10-acridineacetate ion and imidazole are reported.

Słowa kluczowe

Copper(II) complexes, Imidazole, proteases, 10-dihydro-9-oxo-10-acridineacetate, Crystal structures, Spectra, Magnetic measurements

Adres publiczny

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