

Synthesis and spectroscopic investigations of lanthanide compounds with phosphoro-azo derivatives of β -diketonates.

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Streszczenie

Phosphoro-azo derivatives of β -diketonates (BDK) have been applied in clinical practice in anticancer medicine [1, 2]. The role and function of the chelating part $-\text{CO}-\text{NH}-\text{PO}-$ of the ligand are, to our knowledge, unknown in this process. The usefulness of lanthanide complexes with BDK in medicine has also not been examined. Up to now, the chemistry, structure and properties of these lanthanide complexes have not been studied. We have undertaken the synthesis and spectroscopic investigation of two types of compounds, (1) and (2), primarily to determine the chemical and physical properties of the systems under consideration. An effort will be made to shed light on the interaction mechanism of lanthanide complexes with cancer cells. Since electron spectroscopy could be a useful method in the understanding of those processes, our main studies involved spectroscopy of the systems under consideration.

Adres publiczny

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<http://link.springer.com>