



Two New Metal Coordination Complexes: Inhibiting Growth of Human Osteosarcoma Cells

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SUMMARY. Two new metal coordination complexes, $[\text{Ni}(\text{phen})_3\text{V}_2\text{O}_6] \cdot 13 \text{H}_2\text{O}$ [**1**, phen = 1,10-phenanthroline] and $\text{Cd}(\text{pyim})\text{Cl}_2$ [**2**, pyim = 2-(2-pyridyl)imidazole] have been successfully synthesized and structurally characterized by single crystal X-ray analysis. In addition, *in vitro* anti-tumor activity of compound **1** on four human osteosarcoma cell lines (MG-63, Saos-2, 143B and SW1353) was further determined.

RESUMEN. Dos nuevos complejos de coordinación de metales, $[\text{Ni}(\text{phen})_3\text{V}_2\text{O}_6] \cdot 13 \text{H}_2\text{O}$ [**1**, phen = 1,10-fenanthrolina] y $\text{Cd}(\text{pyim})\text{Cl}_2$ [**2**, pyim = 2-(2-piridil)imidazol] se han sintetizado con éxito y caracterizado estructuralmente por análisis de rayos X de cristal único. Además, se determinó adicionalmente la actividad antitumoral *in vitro* del compuesto **1** en cuatro líneas celulares de osteosarcoma humano (MG-63, Saos-2, 143B y SW1353).

KEY WORDS: anti-tumor activity, metal coordination complexes, X-ray.

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