



Two Novel Cu(II) and Zn(II)-based Coordination Polymers: Inhibition of Human Ovarian Cancer Cells

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SUMMARY. Two new Cu(II)- and Zn(II)-based coordination polymers, [Cu₂(bmip)(H₂O)₄(Br₂BDC)·(Br₂BDC)(H₂O)₂]_n [1, bmip = 1,3-bis(2-methylimidazolyl)propane, H₂Br₂BDC = tetrabromoterephthalic acid] and [ZnCl₂bmip]_n (2), have been successfully synthesized and structurally characterized by single crystal X-ray analysis. In addition, *in vitro* anticancer activities of compounds 1 and 2 on four human ovarian cancer cell lines (COC1, 3AO, SKOV3 and OVCAR3) was further determined.

RESUMEN. Dos nuevos polímeros de coordinación basados en Cu(II)- y Zn(II), [Cu₂(bmip)(H₂O)₄(Br₂BDC)(Br₂BDC)(H₂O)₂]_n [1, bmip = 1,3-bis(2-metilimidazolil)propano, H₂Br₂BDC = ácido tetrabromotereftálico] y [ZnCl₂bmip]_n (2), se han sintetizado con éxito y se han caracterizado estructuralmente mediante análisis de rayos X de cristal único. Además, se determinaron adicionalmente las actividades anticancerígenas *in vitro* de los compuestos 1 y 2 en cuatro líneas celulares de cáncer de ovario humanas (COC1, 3AO, SKOV3 y OVCAR3).

KEY WORDS: coordination polymer, ovarian cancer, X-ray.

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