

Two Novel Metal Complexes: Inhibiting Growth of Human Spinal Cord Tumors

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SUMMARY. Two new Zn(II)-based and In-based (III) coordination polymers, $\{[Zn(TTPA)](NO_3)_2 \cdot H_2O \cdot EtOH\}_n$ (1, TTPA = tris(4-(4*H*-1,2,4-triazol-4-yl)phenyl)amine) and $[In(BTB)(EtOH)] \cdot (DMF)(EtOH)$ (2, H₃BTB = 1,3,5-benzenetribenzoic acid), have been successfully synthesized and structurally characterized under solvothermal conditions, in which, 1 show a nia-type 6,6-connected net with a Point symbol of (4¹².6³)(4⁹.6⁶) and 2 bears a three-dimensional (3D) non-interpenetrating structure of 5-connected bnn hexagonal net topology. In addition, *in vitro* anticancer activities of compounds 1 and 2 on four human spinal cord tumors cell lines (Karpas 707, W63, U-1996 and U-266) was further determined.

RESUMEN. Dos nuevos polímeros de coordinación basados en Zn (II) y en In (III), $\{[Zn(TTPA)](NO_3)_2 \cdot H_2O \cdot EtOH\}_n$ (1, TTPA = tris(4-(4*H*-1,2,4-triazol-4-il)fenil)amina) y $[In(BTB)(EtOH)] \cdot (DMF)(EtOH)$ (2, H₃BTB = ácido 1,3,5-benzenotribenzoico), se han sintetizado con éxito y caracterizado estructuralmente en condiciones solvotermiales, en las cuales, 1 muestra una red de tipo nia 6,6 conectada con un símbolo de punto de (4¹².6³)(4⁹.6⁶) y 2 tiene una estructura tridimensional (3D) no interpenetrante de topología de red hexagonal 5 bnn conectada. Además, se determinaron adicionalmente las actividades anticancerígenas *in vitro* de los compuestos 1 y 2 en cuatro líneas celulares tumorales de la médula espinal humana (Karpas 707, W63, U-1996 y U-266).

KEY WORDS: coordination polymer, three-dimensional, spinal cord tumor.

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