



Therapeutic Effect and Clinical Nursing Significance of a New Mixed-Ligand Co(II) Coordination Polymer on Gestational Diabetes Mellitus by Regulating IL-6 Level

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SUMMARY. In the current study, a new Co(II) coordination polymer formulated as $\{[\text{Co}(\text{L})(\text{btmb})] \cdot 2\text{H}_2\text{O}\}_n$ (**1**) has been successfully prepared via reaction of $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ with the 4-mercaptobenzoic acid (HL) in the presence of the N-donor co-ligand 1,4-bis((1H-1,2,4-triazol-1-yl)methyl)benzene (btmb) under the solvothermal reaction conditions. In the biological section, the blood glucose was measured after the new compound therapy. In addition to this, the IL-6 levels in the plasma were also determined with ELISA detection kit at the indicated time after compound treatment.

RESUMEN. En el estudio actual, se preparó con éxito un nuevo polímero de coordinación de Co(II) formulado como $\{[\text{Co}(\text{L})(\text{btmb})] \cdot 2\text{H}_2\text{O}\}_n$ (**1**) mediante la reacción de $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ con el 4-ácido mercaptobenzoico (HL) en presencia del co-ligando N-donante 1,4-bis((1H-1,2,4-triazol-1-il)metil)benceno (btmb) en las condiciones de reacción solvotérmicas. En el apartado biológico, se midió la glucemia tras la nueva terapia compuesta. Además de esto, también se determinaron los niveles de IL-6 en el plasma con el kit de detección ELISA en el momento indicado después del tratamiento con el compuesto.

KEY WORDS: coordination polymer, ELISA, gestational diabetes mellitus.

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