



Two Novel Pyran Annulated Heterocyclic Compounds for Inhibiting Growth of Human Osteosarcoma Cells

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SUMMARY. Two new pyran annulated heterocyclic compounds (**1** and **2**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. The two compounds exhibited potent antitumor activities inhibiting the growth of two human osteosarcoma cell lines (MG-63 and U-2 OS), especially compound **2**, which showed more effective action than 5-FU as a standard antitumor drug.

RESUMEN. Dos nuevos compuestos heterocíclicos pirano anillados (**1** y **2**) fueron sintetizados y caracterizados a través de IR, ¹H NMR, HRMS y cristalografía monocristalina de rayos X. Los dos compuestos exhibieron actividades antitumorales potentes que inhiben el crecimiento de dos líneas celulares de osteosarcoma humano (MG-63 y U-2 OS), especialmente el compuesto **2**, que mostró una acción más eficaz que el 5-FU como una droga antitumoral estándar.

KEY WORDS: antitumor, crystal, pyran.

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