

Synthesis of Two Novel 4-Hydroxycoumarins and Evaluation of their Antitumor Activity

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SUMMARY. Two novel 4-hydroxycoumarins (**1** and **2**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. In this study, the antitumor effect of the two compounds was examined on human intestinal epithelial adenocarcinoma cell line (HuTu80). The results showed that compound **1** displayed potent antitumor activity with the IC₅₀ value of 51-58 μg/mL and the IC₉₀ value of 108-115 μg/mL. **RESUMEN.** Dos nuevas 4-hidroxycumarinas (**1** y **2**) fueron sintetizadas y caracterizadas por IR, ¹H NMR, HRMS, y cristalografía de rayos X monocristalina. En este estudio, el efecto antitumoral de los dos compuestos se examinó en la línea humana intestinal epitelial de células de adenocarcinoma (HuTu80). Los resultados mostraron que el compuesto **1** muestra potente actividad antitumoral con el valor IC₅₀ de 51-58 μg/mL e IC₉₀ de 108-115 μg/mL.

KEY WORDS: antitumor, 4-hydroxycoumarin, synthesis.

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