



Synthesis and Antitumor Activity of a Novel Biscoumarin and its Corresponding Epoxydicoumarin

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SUMMARY. Biscoumarin (**1**) and its corresponding epoxydicoumarin (**2**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. In addition, the antitumor effects of the two compounds were studied on five human cancer cell lines including lung (A549), ovarian (SK-OV-3), melanoma (SK-MEL-2), brain (XF498), and colon (HCT15). The results showed that compared with compound **2**, compound **1** displayed efficient antitumor activity.

RESUMEN. Biscumarina (**1**) y su epoxydicumarina correspondiente (**2**) se sintetizaron y caracterizaron mediante IR, ¹H RMN, HRMS y cristalografía de rayos X monocristal. Además, se estudiaron los efectos antitumorales de los dos compuestos en cinco líneas celulares humanas de cáncer incluyendo cáncer de pulmón (A549), de ovario (SK-OV-3), melanoma (SK-MEL-2), cerebro (XF498) y colon (HCT15). Los resultados mostraron que en comparación con el compuesto **2**, el compuesto **1** muestra actividad antitumoral eficiente.

KEY WORDS: antitumor, biscoumarin, epoxydicoumarin,

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