



Pyran Derivatives for Inhibiting Human Esophageal Carcinoma Cells Growth

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SUMMARY. Three novel pyran derivatives (**1-3**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. The antitumor activities of these compounds were investigated for inhibiting human esophageal carcinoma cells (SF-268 and RKOP27) growth by MTT assay. It was found that compared with compounds **1** and **2**, compound **3** exerted rather potent activities against all of these cell lines.

RESUMEN. Tres nuevos derivados de pirano (**1-3**) se sintetizaron y caracterizaron mediante IR, ¹H RMN, HRMS, y cristalografía monocristal de rayos X. Las actividades antitumorales de estos compuestos fueron investigados para la inhibición de células de carcinoma de esófago humano (SF-268 y RKOP27) mediante ensayo del crecimiento de MTT. Se encontró que, en comparación con los compuestos **1** y **2**, el compuesto **3** ejerce potentes actividades contra ambas líneas celulares.

KEY WORDS: antitumor, crystal, pyran.

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