



Pyran Annulated Heterocyclic Compounds as Potential Agents against Congestive Heart Failure

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SUMMARY. Four novel pyran annulated heterocyclic compounds (**1-4**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. Their anti-congestive heart failure activity in blood pressure experiments was then carried out and the results showed that compounds **3** and **4** exhibited potent anti-congestive heart failure activities, especially the compound **3**, which showed more effective action than levosimendan.

RESUMEN. Cuatro nuevos compuestos heterocíclicos anillados piranósicos (**1-4**) se sintetizaron y caracterizaron mediante IR, ¹H NMR, HRMS, y cristalografía de rayos X monocristal. En los experimentos de presión sanguínea se llevó a cabo la medida de su actividad anti-congestiva en la insuficiencia cardíaca y los resultados mostraron que los compuestos **3** y **4** exhibieron potente actividad anti-congestiva ante la insuficiencia cardíaca, especialmente el compuesto **3**, que mostró una acción más eficaz que el levosimendan.

KEY WORDS: anti-congestive, crystal, pyran.

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