



Synthesis of Bis-Enone Derivatives and Evaluation of their Antiinflammatory Activity on Respiratory Infection

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SUMMARY. Four novel bis-enone derivatives (**1-4**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. The experimental results of anti-inflammatory activity showed that compared with compounds **1** and **2**, compounds **3** and **4** with electron-repelling groups in the phenyl ring exerted rather potent activities.

RESUMEN. Cuatro nuevos derivados de bis-enona (**1-4**) se sintetizaron y caracterizaron mediante IR, ¹H RMN, HRMS y cristalografía de rayos X en monocristal. Los resultados experimentales de la actividad anti-inflamatoria mostraron que en comparación con los compuestos **1** y **2**, los compuestos **3** y **4** con los grupos repelentes de electrones en el anillo fenilo ejercen actividades más potentes.

KEY WORDS: anti-inflammatory, bis-enone, crystal.

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