

عنوان مقاله:

Substituted Tetrahydrocarbazole Based on Indomethacin and Diclofenac with Heterocyclic Compound, Synthesis, Spectral and Antimicrobial Studies

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نویسندگان:

Mustafa H. Mahdi - *Babylon Health Directorate, Al Hillah, Iraq*

Ashour H. Dawood - *Al-Esraa University College, Baghdad, Iraq*

Dhurgham Q. Shaheed - *Department of Pharmaceutics, College of Pharmacy, University of Al Kafeel . Najaf. Iraq*

خلاصه مقاله:

New ۶-chloro-۱,۲,۳,۴-tetrahydrocarbazole compounds were prepared from the reaction of cyclohexanone with ۴-chlorophenylhydrazine. The synthesis of heterocyclic compounds was carried out through the reaction of cyclohexanone with ۴-chlorophenylhydrazine, then the produced compound was treated with two NSAIDs (indomethacin, diclofenac) by amide bond formation to form N-substituted THCZ by NSAIDs. The characterization of prepared compounds was identified using the ^1H , ^{13}C NMR and FT-IR spectroscopies. The antimicrobial activity of the synthesized compounds was tested in vitro to discover a good activity as antifungal and moderate as antibacterial, which was confirmed by the docking study of the compounds.

کلمات کلیدی:

Tetrahydrocarbazole, indomethacin, Diclofenac, Cyclohexanone

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