

عنوان مقاله:

Synthesis of New β -Lactam, Tetrazole, Thiazolidinone, and Oxazepine Compounds from Schiff Bases and Study of Their Biological Activity

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خلاصه مقاله:

In this research, the first Schiff bases (1) were prepared from the reaction of F -dimethyl amino benzaldehyde with hydrazine derivative in the presence of glacial acetic acid, and then, from reaction of Schiff bases (1) with sodium azide, mercaptoacetic acid, chloroacetyl chloride, and various anhydrides (maleic anhydride, succinic anhydride, and 3-nitro phthalic anhydride), tetrazole (2), thiazolidinone (3), β -lactam (4), and oxazepine compounds (5-7), respectively were synthesized and their physical characteristics were studied. 1H -NMR and infrared spectra were used to identify the produced derivatives. Likewise, the antibacterial strains and fungi revealed the activity against Gram-positive bacteria (*Stapylococcus*), Gram-negative bacteria (*Escherichia coli*), and Gram-positive bacteria (*Candida albicans*).

کلمات کلیدی:

Schiff base Tetrazole β , lactam thiazoleidinones Oxazepine

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