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Synthesis, characterization and study biological activity of some new pyrimidine and 1,2,3,4-tetrazole derivatives based on sulfadiazine

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Abstract: New 1,2,3,4-Tetrazole derivatives[S_1a-S_5c]were prepared by 1,3-diolarcyclo addition reaction of compound [2-azido-N-(4-(N-(pyrimidin-2-yl)sulfamoyl)phenyl)acetamide] with Schiff base derivatives[AaS₁-EcS₅], which prepared from a condensation of some aromatic aldehyde with 3- amino acetophenone derivative. The first step include synthesized of chalcone by cliesen –shemidtcondensation of 3-amino acetophenone with (4-Chloro, 2,4-Dichloro,4-Bromo,4-N,N-dimethyl amino and 2-Hydroxy-4-methoxy)benzaldehyde . Then cyclization with urea, thiourea and guanidine to produce pyrimidine derivatives[Aa-Ec], which will use to synthesized Schiff bases derivatives mentioned above . some of the prepared compounds were study biological activity, all the prepared compound werecharacterizedbymelting point, FT-IR, H¹NMR and mass spectroscopy.

Keywords: Chalcone, Schiff base, Tetrazole, Sulfadiazine and pyrimidine.

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