



Synthesis and Studies on Antimicrobial Activity of Piperazine Containing Pyrimidine Derivatives

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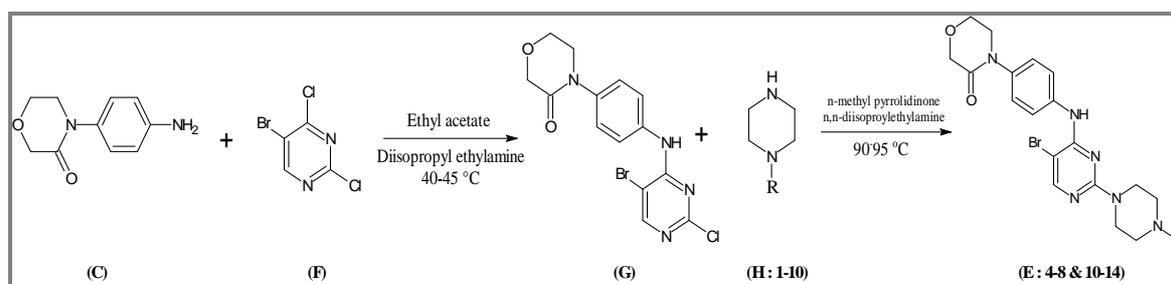
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ABSTRACT

A series of novel 4-(4-((5-bromo-2-(4-substitutedpiperazin-1-yl)pyrimidin-4-yl)amino)phenyl)morpholin-3-one, piperazine containing pyrimidine derivatives were synthesized by the reaction of 4-(4-((5-bromo-2-chloropyrimidin-4-yl)amino)phenyl)morpholin-3-one with various piperazine derivatives and there in vitro antimicrobial activities were evaluated. The synthesized compounds were characterized by elemental analyses, FT-IR and ¹H NMR spectral studies. 4-(4-((5-bromo-2-(4-substitutedpiperazin-1-yl) pyrimidin-4-yl) amino) phenyl) morpholin-3-one derivatives prepared by using the two key raw materials like 4-(3-Oxo-4-morpholinyl) aniline and 5-bromo-2,4-dichloropyrimidine. The newly synthesis compounds shows moderate to significant activity.

Graphical Abstract



Keywords: Pyrimidine, Piperazine, Antimicrobial, Morpholine.