

29. Synthesis, Antimicrobial study of 2-(2-amino-4-aryl-6H-1,3-oxazin-6-yl)-4-substituted-naphthalen-1-ol

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Abstract :

2-Acetyl- 4-substituted-1-naphthol have been synthesized from 4-substituted-1-naphthol by refluxing 4-substituted-1-naphthol with glacial acetic acid in presence of fused ZnCl₂. Chalcones were synthesized from from 2-acetyl-4-substituted -1-naphthol by condensing it with aromatic aldehydes. Then these chalcones were cyclized with urea in the presence of alcoholic KOH to give titled oxazins. The synthesized compounds were characterized by elemental analysis, ¹H NMR, IR Spectroscopy. All Newly synthesized compound were scanned for their antimicrobial activity and all newly synthesized compounds shows an excellent antimicrobial activities.

Key Words: Synthesis , oxazin , Antimicrobial activities , antifungal activities.