



Green Synthesis and Evaluation of Novel Pyrimidine Incorporated Schiff Bases as Promising Antibacterial Agents

K. Babu*

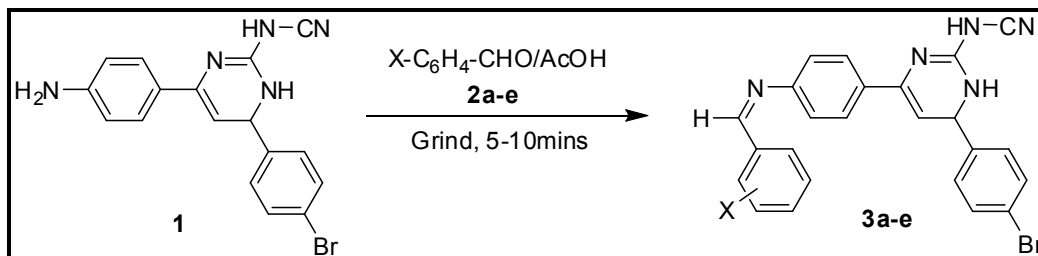
Department of Chemistry, Post Graduate and Research Centre,
Rajah Serfoji Government College (Auto), Thanjavur, Tamil Nadu, **INDIA**
Email: kbabu.chemistry@gmail.com

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ABSTRACT

Green and rapid synthesis of Novel *N*-(4-(4-(benzylideneamino)phenyl)-6-(4-chlorophenyl)-1,6-dihydropyrimidin-2-yl)cyanamide derivatives (**3a-f**) from *N*-(4-(4-aminophenyl)-6-(4-chlorophenyl)-1,6-dihydropyrimidin-2-yl)cyanamide (**1**) have been described. All the compounds were obtained in very good yield within 5-10 min by using grinding method. The structures were confirmed using FT-IR, ¹H-NMR and ¹³C-NMR spectra. The synthesized compounds were screened for their antibacterial activities and showed potential activities against tested bacterial strains.

Graphical Abstract



Keywords: Antibacterial Activity, FT-IR, ¹H-NMR and ¹³C-NMR spectra, Schiff bases.