

Bio-potent aryl ketoximes

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Abstract. Four aryl ketoximes were synthesized by potassium hydrogen phthalate catalyzed condensation of aryl ketones and hydroxylamine hydrochloride under conventional heating in ethanol medium. The yield of this condensation is more than 75%. The synthesized ketoximes were characterized by their physico-chemical constants and spectroscopic data. The ligand-protein interactions ability of these ketoximes were studied by molecular docking method. The antimicrobial activities of these ketoximes were assessed by Bauer-Kirby disc diffusion methods against selective microorganisms.

Keywords: ketoximes; potassium hydrogen phthalate; IR and NMR spectra; molecular docking; antimicrobial activities.

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