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(54) Title of the invention : ANTIMICROBIAL COMPOUND (E)-2-PHENOXY-1-PHENYL-N-(4H-1, 2, 4-TRIAZOLE-4-YL) ETHANIMINE AND SYNTHESIS THEREOF

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(57) Abstract :

The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to Synthesis and antimicrobial activity of novel compound (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine. The novel process involved mixing of 2-phenoxy-1-phenylethanone (0.01 mol), 4-amino -1, 2, 4-triazole (0.01mol) and 1 ml of glacial acetic acid in 100 ml ethanol and was refluxed on water bath for 10 h. The mixture is allowed to cool, and then the separated solid is filtered and recrystallized from ethanol to afford the (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine. The (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine shows zone of inhibition 14mm, 16mm, 22mm against B. Subtilis, E. Coli, C. albicans respectively as compare with standard drugs.

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