



Sulfamic Acid Catalyzed One-Pot Synthesis of Biologically Relevant 4,5-dihydro-1H-pyrazole Derivatives

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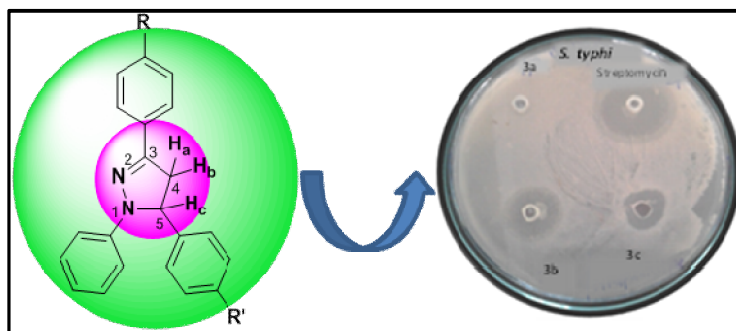
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Accepted on 4th August, 2018

ABSTRACT

Simple, cost-effective method for synthesis of 4,5-dihydro-1H-pyrazole derivatives from 1,3-diphenyl-2-propen-1-ones and phenyl hydrazine employing a catalytic amount of sulfamic acid at reflux temperature is reported. The key features of the protocol include rapid reactions with good yields, simple workup procedure, and easy isolation of products. Structures of the synthesized compounds have been elucidated by means of IR, ¹H NMR, ¹³C NMR and mass spectral data. The antibacterial activity of the synthesized compounds was performed by Agar well diffusion method.

Graphical Abstract



Keywords: Pyrazoline, Chalcone, Sulfamic acid, catalyst.