SYNTHESIS AND BIOLOGICAL ACTIVITY OF AMINOPYRIMIDINE DERIVATIVES

Pravinsinh Bhupatsinh Dodia[1*], Prof. Rameshwar Ameta[2], Dr. Kartik B. Vyas[3]

[1and2]Department of Chemistry, Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, India.

[3]Department of Chemistry Sheth L.H. Science College, Mansa, Gujarat (India).

Email: dodiapravinsinhbhu@gmail.com

ABSTRACT

Heterocyclic compounds are useful in medicinal field. Heterocyclic compound with pyrimidine, pyrazole, quinine etc. nucleus is very importance for the biological activity. In presence study, we have synthesized various pyrimidines by reaction between chalcones and Guanidine in the presence of sodium hydroxide as the base. Antimicrobial activity of all the synthesized compounds were perform against gram +ve and gram -ve bacteria. All synthesized compounds were done by 1H NMR, 13C NMR, IR, MASS techniques.

Key Words: Guanidine, Pyrimidine, Aldehydes, Antimicrobial Activity and Spectroscopy.

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SYNTHESIS AND CHARACTERIZATION OF FLUORINE CONTAINING NOVEL CHALCONES

Pravinsinh Bhupatsinh Dodia[1*], Prof. Rameshwar Ameta[2], Dr. Kartik B. Vyas[3]

[1and2]Department of Chemistry, Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, India.

[3]Department of Chemistry Sheth L.H. Science College, Mansa, Gujarat (India).

Email: dodiapravinsinhbhu@gmail.com

ABSTRACT

For synthesis of various heterocyclic compounds Chalcones are very important intermediate. It is useful for the synthesis of flavones, flavanols, pyrimidines, pyrazolines, anthocyanins, benzal coumarones as well as certain compounds like deoxybenzoins and hydantoins which are of some medicinal application. In presence study we have synthesized various fluorine based chalcones by reaction between 1-(5-hydroxynaphthalen-1-yl) ethan-1-oneand 1-chloro-5-fluoro-2-methyl-4-nitrobenzene followed by condensation with various aromatic aldehyde. All synthesized compounds were done by ^{1}H NMR, ^{13}C NMR, IR, MASS techniques.

Keywords: ***1-chloro-5-fluoro-2-methyl-4-nitrobenzene, Aldehydes, Chalcone and Spectroscopy***

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SYNTHESIS AND BIOLOGICAAL ACTIVITY OF FLUORINE BASED NOVEL PYRIMIDINES

Pravinsinh Bhupatsinh Dodia[1*], Prof. Rameshwar Ameta[2], Dr. Kartik B. Vyas[3]

[1and2]Department of Chemistry, Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, India.

[3]Department of Chemistry Sheth L.H. Science College, Mansa, Gujarat (India).

Email: dodiapravinsinhbhu@gmail.com

ABSTRACT

Synthesis of various heteroatom bearing compounds are very useful as the drugs intermediates. Heterocyclic compound with pyrimidine, pyrazole, quinine etc. nucleus are very essential for the biological activity. In presence paper we have prepared various fluorine based chalcones by reaction between 1-(5-hydroxynaphthalen-1-yl) ethan-1-oneand1-chloro-5-fluoro-2-methyl-4-nitrobenzene followed by condensation with various aromatic aldehyde. This prepared chalcones are used for synthesis of pyrimidines by reaction with urea in the presence of sodium hydroxide as the base. All synthesized compounds were done by ^{1}H NMR, ^{13}C NMR, IR, MASS techniques.

Keywords: ***Fluorine, Pyrimidine, Aldehydes, Antimicrobial Activity and Spectroscopy.***

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