

GRAPHICAL ABSTRACT

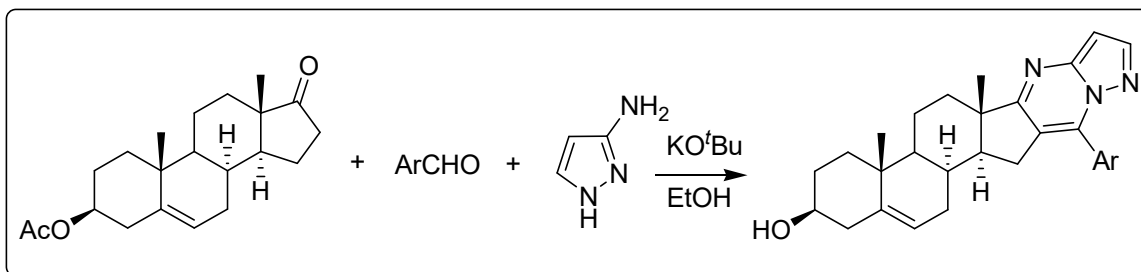
INTRODUCTION

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CHAPTER 1

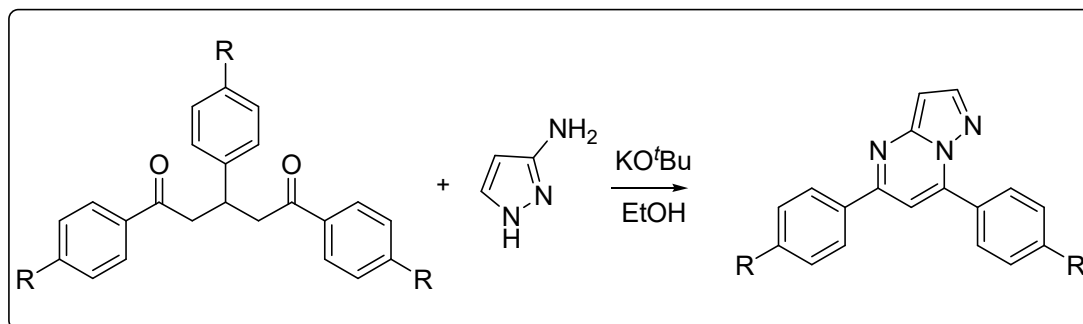
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Part A: A facile synthesis of steroidal A- and D-ring fused pyrazolo[1,5-*a*]pyrimidines by a base induced three-component reaction.



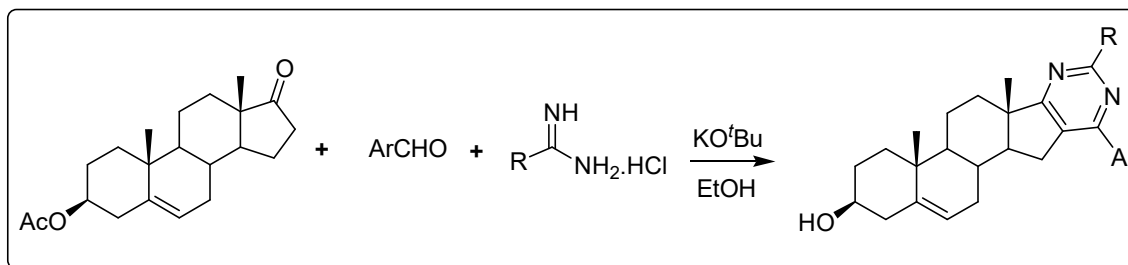
Keywords: Three- component reaction, steroidal pyrazolo[1,5-*a*]pyrimidine, aminopyrazole

Part B: A novel methodology for the synthesis of pyrazolo[1,5-*a*] pyrimidines from 1,5-dicarbonyl compounds.



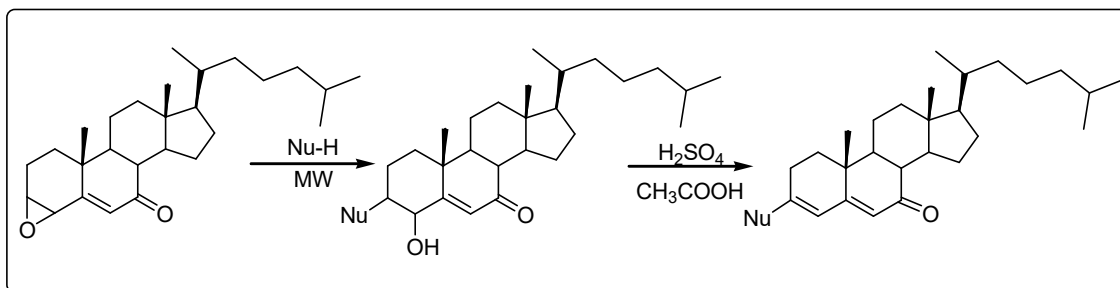
Keywords: Steroidal pyrazolo[1,5-*a*]pyrimidine, 1,5-dicarbonyl, aminopyrazole

Base induced synthesis of steroidal and nonsteroidal fused pyrimidines by three-component reaction.



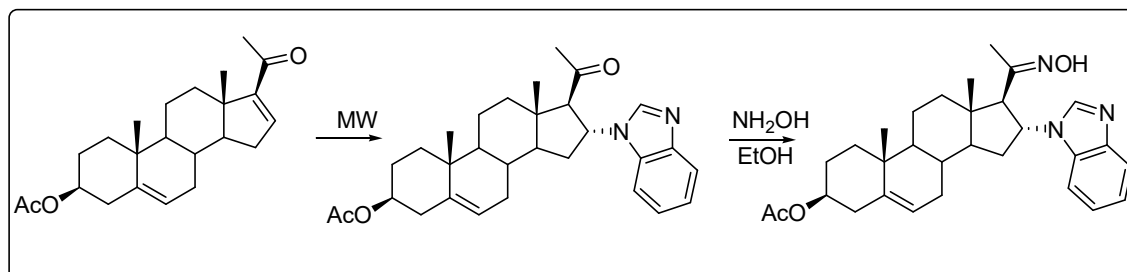
Keywords: Steroidal pyrimidine, 1,5-dicarbonyl, amidine

Part A: Synthesis of A-ring substituted heterosteroids by epoxide ring opening reaction and their antimicrobial studies



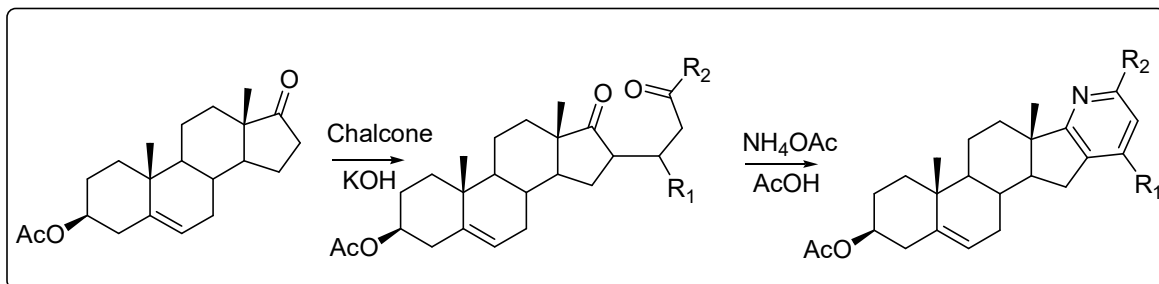
Keywords: Heterosteroids, epoxide, heterocycle, microwave, antimicrobial

Part B: Biological studies of some Michael adducts of D-ring steroids



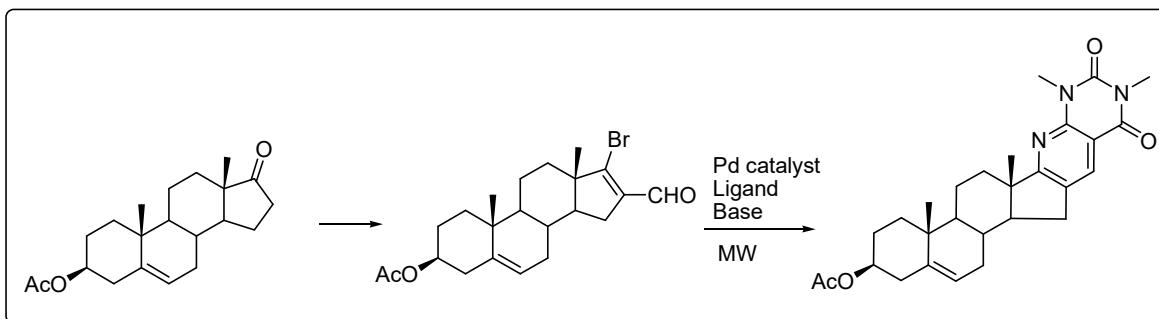
Keywords: Michael addition, steroid, anticancer

Part A: Synthesis of D-ring annelated aryl substituted pyrido steroids from steroidal 1,5-dicarbonyl compounds



Keywords: Pyrido steroid, 1,5-dicarbonyl, chalcone

Part B: Pd-catalyzed synthesis of steroidal and non-steroidal pyrido[2,3-*d*]pyrimidine derivatives from β -halo- α,β -unsaturated aldehydes



Keywords: α,β -unsaturated aldehydes, pyrido[2,3-*d*]pyrimidine, Pd catalyst,