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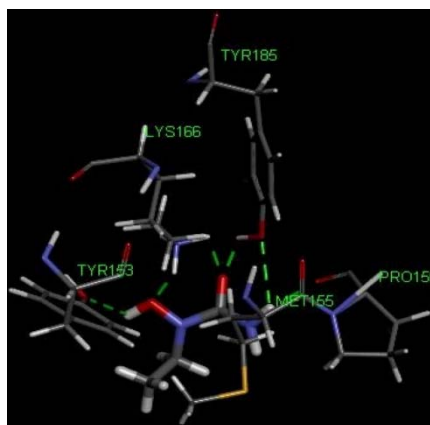
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CONTENTS

Papers

- 669 Prediction of agonist, partial agonist and full antagonist of *H. pylori TlpB* utilizing molecular docking

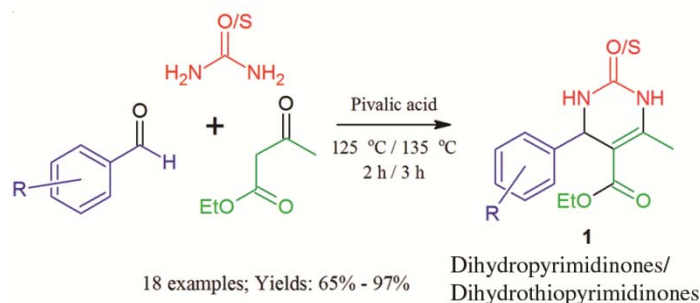


Mohit Kumar & Sisir Nandi*

Department of Pharmaceutical Chemistry, Global Institute of Pharmaceutical Education and Research, Affiliated to Uttarakhand Technical University, Kashipur 244 713, India

- 677 Pivalic acid assisted Biginelli reaction for synthesis of dihydropyrimidinones and dihydrothiopyrimidinones

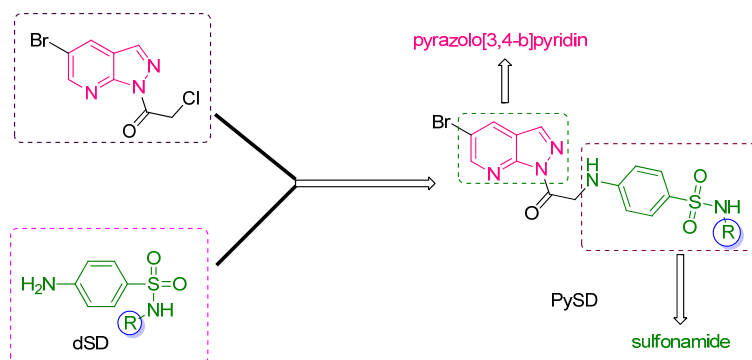
Herein is provided an alternate, simple, multigram scale, efficient route for Biginelli reaction for synthesis of dihydropyrimidinones using urea, ethylacetoacetate, and benzaldehyde with pivalic acid.



Hari K Kadam*, Anushri Laxman Gawas, Shruti Sagun Vernekar, Anika Arjun Chodankar, Saurabh Sudhan Gaonkar, Lalitprabha N Salgaonkar, Tushar S Anvekar, Teotone Vaz & Shashank N Mhaldar

Department, of Chemistry, St. Xavier's College, Mapusa, Goa 403 507, India

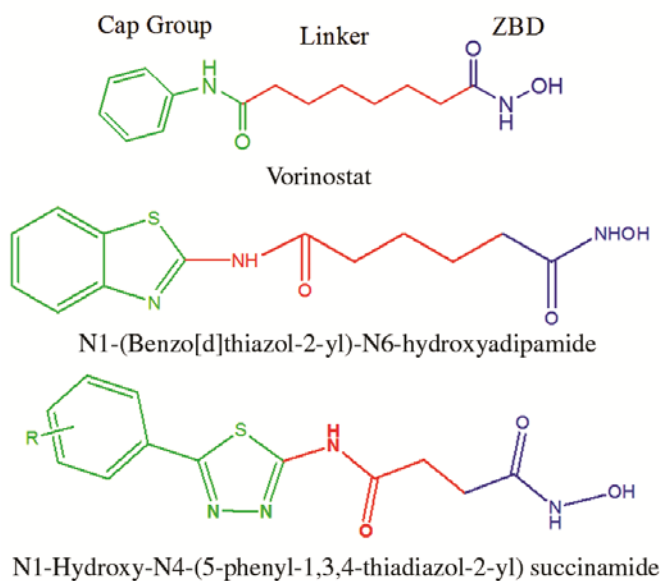
- 682** **Synthesis, anti-tuberculosis and anti-bacterial activities of sulfonamide bearing 4-((2-(5-bromo-1*H*-pyrazolo[3,4-*b*]pyridin-1-yl)-2-oxoethyl)amino)-*N*-(various substitutions)benzenesulfonamide** All targeted compounds have been designed and synthesized by sulfonamides fused with pyrazolo[3,4-*b*]pyridine and evaluated for their biological activities



Hiren H Variya*, Vikram Panchal & G R Patel

Department of Chemistry, Sheth M. N. Science College, NGES Campus, Patan 384 265, India

- 690** **Design, synthesis, computational and biological evaluation of novel hydroxamic and carboxylic acid derivatives as histone deacetylase inhibitors** Vorinostat is the first HDACi to acquire FDA approval and is used for the management of the cutaneous manifestations of T-cell lymphoma. It is found that several compounds with 6C-bridge linking benzothiazole moiety and hydroxamic functional groups show good inhibition against HDAC3 and exhibit potent cytotoxicity against five cancer cell lines with average IC₅₀ values of low dose, almost equipotent to Vorinostat.



Bhavini Gharia*, Bhanubhai N Suhagia, Jagatkumar Upadhyay, Richa Champaneria, Sandesh Lodha & Shailesh A Shah

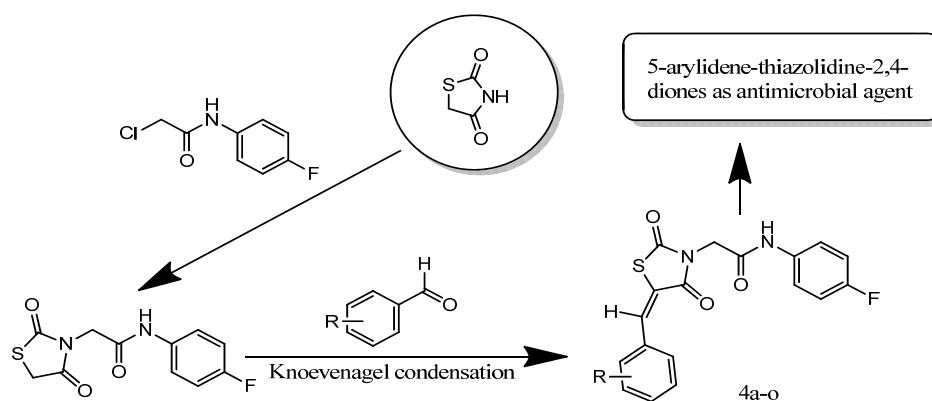
Department of Pharmaceutical Chemistry, Maliba Pharmacy College, UkaTarsadia University, Bardoli 394 350, India

700 Antimycobacterial potential of novel hydrazone derivatives

Sachin H Rohane* & Ashlesha J Chauhan

Pharma Chemistry, KadiSarvaVishwavidyalaya, Gandhinagar 382 015, India

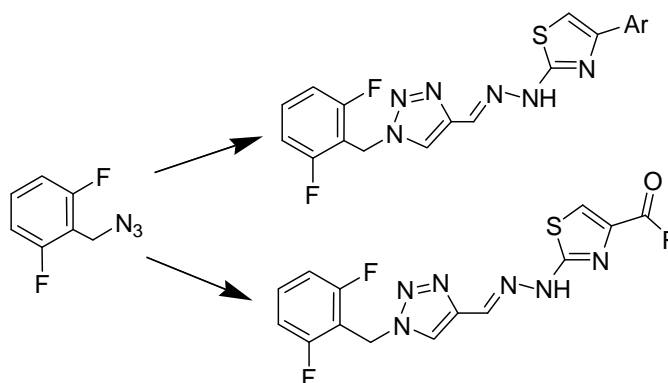
710 Facile synthesis and characterization of some new 5-arylidene-thiazolidine-2,4-diones and their antimicrobial evaluation



Payal Joshi, Dharmesh Mahajan* & Dharmesh Chejara

Department of Chemistry, Government Science College, Vankal, Surat 394 430, India

716 Synthesis and antimicrobial activity of 4-substituted thiazol-2-yl hydrazine derivatives of 1-(2,6-difluorobenzyl)-1H-1,2,3-triazole-4-carbaldehyde Synthesis and antimicrobial activity of several 1,2,3-triazole clubbed 4-substituted thiazole derivatives is reported

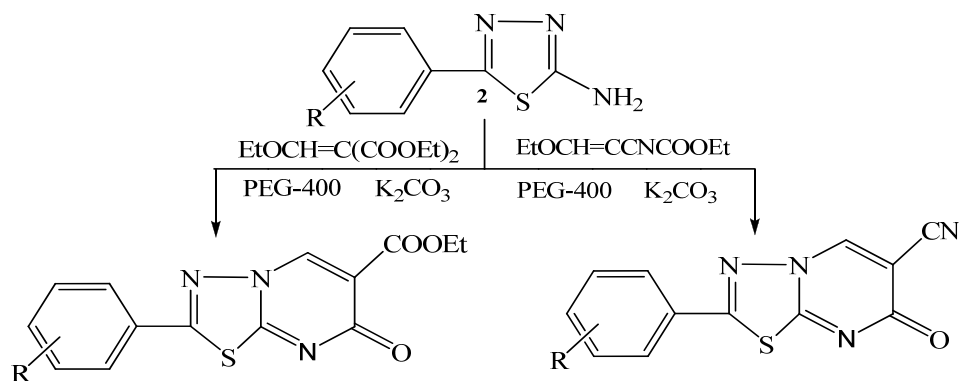


Rahul P Jadhav, Amar A Patil & Vivek D Bobade*

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724 A one pot, efficient and eco-friendly synthesis of 1,3,4-thiadiazolo[3,2-a] pyrimidine scaffold via Aza-Michael addition and intermolecular cyclodehydration reactions in poly ethylene glycol (PEG)

Potassium carbonate in poly (ethylene glycol-400) has been found to be a highly effective and efficient medium for the straight forward, convenient, one pot and green synthesis of ethyl 2-substituted phenyl-7-oxo-7H-[1,3,4]-thiadiazolo [3,2-a]-pyrimidine-6-carboxylate and -6-carbonitrile through intermolecular cyclodehydration of Michael adducts formed between the reaction of 2-amino-5 substituted thiadiazoles with diethyl-2- (ethoxymethylene) malonate and ethyl-2- cyano-3-ethoxyacrylate respectively. The structures of all the new compounds have been elucidated using IR, ^1H and ^{13}C NMR, mass spectral data and elemental analyses.



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