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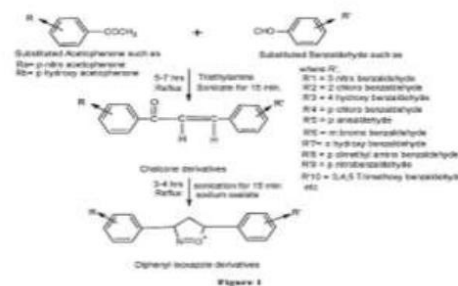
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<p>(51) International classification : B01J0019000000, C07K0014435000, C40B0050140000, A01N0043800000, C07D0261180000</p> <p>(86) International Application No : NA</p> <p>Filing Date : NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA</p> <p>Filing Date : NA</p> <p>(62) Divisional to Application Number : NA</p> <p>Filing Date : NA</p>	<p>(71) Name of Applicant : 1) Ms. Snehal Sanjay Patil Address of Applicant : Master of Pharmacy, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>2) Dr. Shrinivas Krishna Mohite 3) Mr. Pankaj Shankar Kore 4) Dr. Sandeep Ravindra Kane 5) Mr. Rohan Rajnikant Vakhariya 6) Ms. Arti Sanjay Jadhav 7) Mr. Akshay Ashok Thorat 8) Ms. Deepa Shivaji Yadav 9) Ms. Shivani Jagannath Patil 10) Ms. Rutumbhara Suhas Patil</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1) Ms. Snehal Sanjay Patil Address of Applicant : Master of Pharmacy, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>2) Dr. Shrinivas Krishna Mohite Address of Applicant : Professor, HOD Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>3) Mr. Pankaj Shankar Kore Address of Applicant : Assistant Professor, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>4) Dr. Sandeep Ravindra Kane Address of Applicant : Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>5) Mr. Rohan Rajnikant Vakhariya Address of Applicant : Assistant Professor, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>6) Ms. Arti Sanjay Jadhav Address of Applicant : Master of Pharmacy, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>7) Mr. Akshay Ashok Thorat Address of Applicant : Master of Pharmacy, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>8) Ms. Deepa Shivaji Yadav Address of Applicant : Master of Pharmacy, Department of Pharmaceutical Chemistry, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>9) Ms. Shivani Jagannath Patil Address of Applicant : Master of Pharmacy, Department of Quality Assurance, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p> <p>10) Ms. Rutumbhara Suhas Patil Address of Applicant : Master of Pharmacy, Department of Quality Assurance, Rajarambapu College of Pharmacy, Kasegaon, Walva, Sangli, Maharashtra, Pin Code: 415404 Kasegaon -----</p>
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(57) Abstract :
The present invention relates to the design and synthesis of substituted isoxazole derivatives and screening of compounds for anti-cancer and anti-inflammatory activity. In this present study various substituted isoxazole derivatives were synthesized by conventional and microwave assisted method. Wherein the compounds synthesized by the Microwave method results in higher yields. Sharp melting points and Rf values were used to determine the purity and homogeneity of produced chemicals. IR, 1H NMR, and MASS spectra were used to characterize the structural properties of the produced compounds. The Synthesized compounds were docked with receptors of lipoxygenase-3 soybean complex for anti-inflammatory activity (PDB Code- 6zho), potent inhibitors of NUDT1s silence hormone signaling in Breast cancer (PDB Code-3vbk) for anti-cancer activity. The Results showed that the compound 2s is having 76.66 % of inhibition and showed the significant anti-cancer activity when compared with the standard drug of 5- fluorouracil.



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