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Green synthesis of pyrazolo-pyrimidines by using ionic liquids as potent EAC receptor antagonists

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Pyrazolo-pyrimidines are heterocycles having nitrogen based hetero atom which is the main composition to exhibit pharmacological efficacy. Since they resemble purine, have a great role in the field of medicinal chemistry. After thorough literature survey, we planned to synthesize the new compounds of pyrazolo-pyrimidines by different synthetic methodology followed the green chemistry approach. Here we reported one pot syntheses of pyrazolo-pyrimidines by using ionic liquids & studied comparative with nano-catalysts (Not named here). We found the ionic liquids that used, are better for the synthesis by affording more yield & higher quality than nano-catalysts. The synthesized compounds were confirmed by ¹H NMR, IR & ¹³C NMR spectra. The compounds were tested for in-vitro anticancer activity against Ehrlich Ascites Carcinoma (EAC) cell line. Most compounds revealed significant anticancer activity relative to doxorubicin as positive control with IC₅₀ values.

Biography

Ganesh N Y is pursuing Ph.D. degree since from the year of 2015-16, in Government Science College, Visvesvarayya Technological University (Research Resource Centre), Chitradurga-577501, Karnataka State, India. He was nominated to the young scientist award (From INSA) in the year of 2015 for the project of "Preparation of Dry Ice & its application". He had published the paper title "Base Catalysed Microwave assisted Synthesis, Characterization of 6-Bromo-Pyrazolo-[1,5-a]-Pyrimidine-3-Ethyl-Carboxylate & its Biological Evaluation as CDKs inhibitor" in "Journal of Chemical Sciences" (Springer).

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