Chemical sciences
Microwave assisted Synthesis of Hybrid heterocyclics as Potential anti cancer agents

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In a one pot procedure , a series of novel Hybrid heterocyclic's 6a-g and 7a-g was prepared by condensation of (3aS,4S,6S,6aS)-6-((1-(4-chlorophenyl)-1H-1,2,3-triazol-4-yl)methoxy)-2,2-dimethyltetrahydrofuro[3,4-d][1,3]dioxole-4-carbaldehyde 5 with mercapto acids and primary amines in presence of $ZnCl_2$ under both micro wave irradiation and conventional heating conditions. Compound 5 prepared from di Acetone D- Mannose with click reaction, primary acetonide deprotection and with oxidative cleavage .Characterization of new compounds has been done by means of IR, NMR, MS and elemental analysis. Anticancer activity of the compounds has also been evaluated.

Keywords: Mannose, click reaction, Triazoles, Thiazolidenones, Microwave assisted synthesis.

References

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