

Synthesis and characterization of 2,7-dichloro-6-fluoro-3-(((substituted) hydrazono)methyl)quinoline skeleton and their biological screening

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An efficient, simple and rapid synthesis method for the 2-chloro-5,6-dimethyl-3-(((lower benzylidene) hydrazinylidene)methyl)quinoline is presented. Different organic compounds have been found that act as antibiotics by reacting hydrazonemethyl-7,8-dimethylquinoline with various substituted benzaldehydes in the presence of catalytic amounts of glacial acetic acid and methanol as a solvent to give desired products. Various molecules have been synthesised which act as antimicrobial agents and show moderate activity against the bacteria used.

Keywords: Antimicrobial activity, SAR study, One-pot reaction