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(57) Abstract :

This invention presents the synthesis of novel pyrazoline derivatives, derived from chalcone intermediates, through a simple, efficient, and scalable method. The reaction involves the condensation of isoniazid with chalcone derivatives in dimethylformamide, followed by refluxing for 14-16 hours. The resulting pyrazoline compounds exhibit promising antimicrobial and antifungal activities against various bacterial and fungal strains. The synthesis method ensures high yields and purity of the pyrazoline derivatives, making them viable candidates for the development of new therapeutic agents. The invention provides a cost-effective approach to producing bioactive compounds with broad-spectrum antimicrobial properties, offering significant potential in pharmaceutical applications.

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