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(54) Title of the invention : SYNTHESIS OF 3-PHENYL-1-{4-[3-(4-PHENYL-PIPERAZINE-1-YL)-PROPOXY-PHENYL]-PROP-2-EN-1- ONE

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(57) Abstract :

The present invention discloses a novel phenyl-piperazine substituted chalcone derivative and an efficient method for its synthesis. The compound is prepared by reacting 1-(4-(3-chloropropoxy)phenyl)-3-phenylprop-2-en-1-one with phenyl piperazine in the presence of anhydrous potassium carbonate using acetonitrile as solvent under reflux conditions. The process affords the target compound in good yield and with high purity following simple work-up and recrystallization. Structural elucidation of the synthesized compound is carried out using IR and ¹H NMR spectroscopy, confirming the formation of the desired molecular framework. The disclosed invention provides a structurally novel chalcone-piperazine scaffold that is useful for medicinal chemistry research and further pharmacological evaluation.

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