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(57) Abstract :
A novel quinazolinone derivative compound, namely 3-(4-(3-(4-(1H-imidazol-1-yl)phenyl)acryloyl)phenyl)-2-phenylquinazolin-4(3H)-one, and a process for its synthesis are disclosed. The compound comprises a quinazolin-4(3H)-one core substituted at the 2-position with a phenyl group and at the 3-position with a phenyl-linked acryloyl moiety bearing a 4-(1H-imidazol-1-yl)phenyl substituent. The synthesis involves copper-catalyzed N-arylation of a substituted quinazolinone precursor with imidazole in the presence of a base in a polar aprotic solvent under reflux conditions. The compound is obtained with good yield and purity following precipitation and recrystallization. The synthesized compound exhibits characteristic spectroscopic properties including IR and NMR signals and possesses potential applicability in medicinal chemistry.

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