पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 22/2026	शुक्रवार	दिनांक: 29/05/2026
ISSUE NO. 22/2026	FRIDAY	DATE: 29/05/2026

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2026

(21) Application No.202611053043 A

(43) Publication Date : 29/05/2026

(54) Title of the invention : Synthesis and characterization of a novel chalcone-piperazine hybrid compound containing 4-chlorophenyl piperazine moiety

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(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to a novel chalcone-piperazine hybrid compound, namely 3-(4-(3-(4-(4-chlorophenyl)piperazin-1-yl)propoxy)phenyl)-1-phenylprop-2-en-1-one, and a process for its preparation. The compound is synthesised in two steps by first reacting 3-(4-hydroxyphenyl)-1-phenylprop-2-en-1-one with 1,3-bromochloropropane in acetonitrile in the presence of anhydrous potassium carbonate under reflux to give 3-(4-(3-chloropropoxy)phenyl)-1-phenylprop-2-en-1-one, which is then coupled with 1-(4-chlorophenyl)piperazine in anhydrous acetonitrile in the presence of anhydrous potassium carbonate under reflux. The structure of the title compound is confirmed by IR and 1H NMR spectroscopy. The compound is obtained in approximately 60% yield with an Rf value of 0.77 (n-hexane: ethyl acetate, 2:1) and is useful as a lead molecule and synthetic intermediate for further pharmacological investigation.

No. of Pages : 12 No. of Claims : 10