

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 22/2026
ISSUE NO. 22/2026

शुक्रवार
FRIDAY

दिनांक: 29/05/2026
DATE: 29/05/2026

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202611048136 A

(19) INDIA

(22) Date of filing of Application :15/04/2026

(43) Publication Date : 29/05/2026

(54) Title of the invention : SYNTHESIS AND CHARACTERIZATION OF 1-(4-(3-(4-(3-ETHOXYPHENYL)PIPERAZIN-1-YL)PROPOXY)PHENYL)-3-PHENYLPROP-2-EN-1-ONE

(51) International classification	:C07D241/02, C07D241/04, A61K31/495	(71) Name of Applicant : 1)Mr. Jatin Kishore Sharma Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad- 244102, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	2)Dr. Sushil Kumar
(32) Priority Date	:NA	3)Mr. Sagar Varshney
(33) Name of priority country	:NA	4)Dr. Akhlesh Kumari
(86) International Application No	:	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Mr. Jatin Kishore Sharma
(87) International Publication No	: NA	2)Dr. Sushil Kumar
(61) Patent of Addition to Application Number	:NA	3)Mr. Sagar Varshney
Filing Date	:NA	4)Dr. Akhlesh Kumari
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel chalcone-based compound, namely 1-(4-(3-(4-(3-ethoxyphenyl)piperazin-1-yl)propoxy)phenyl)-3-phenylprop-2-en-1-one, and its method of synthesis and characterization. The compound is designed by incorporating a substituted piperazine moiety into a chalcone framework through a propoxy linker to enhance physicochemical and potential biological properties. The synthesis involves a multi-step process including Claisen-Schmidt condensation, alkylation, and nucleophilic substitution reactions. The obtained compound is characterized by analytical techniques such as FT-IR and ¹H NMR spectroscopy, along with determination of melting point and chromatographic behavior. The invention provides a structurally stable and reproducible compound that may serve as a promising candidate for further pharmaceutical and medicinal chemistry applications.

No. of Pages : 10 No. of Claims : 6