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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : ANTIANXIETY COMPOUND 7-(2-(2-(3-(4-CHLOROPHENYL) ACRYLOYL) PHENOXY) ETHOXY)-4-METHYL-2H-CHROMEN-2-ONE AND SYNTHESIS THEREOF

<p>(51) International classification :G01N0021640000, C07C0213020000, C07B0061000000, C07D0295088000, C07C0269040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr. Amit Kumar</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Lodhipur, Rajput Moradabad U.P. India 244102 ----</p> <p><b>2)Dr. Sushil Kumar</b> <b>3)Mr.Shivam</b> <b>4)Mr. Raj Kumar Singh Bharti</b> <b>5)Ms. Afreen Usmani</b> <b>6)Mr. Anesh Sagar</b> <b>7)Ms. Pooja Malik</b> <b>8)Mr. Munna Singh</b> <b>9)Mr. Shami Iqbal</b></p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. Amit Kumar</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Lodhipur, Rajput Moradabad U.P. India 244102 ----</p> <p><b>2)Dr. Sushil Kumar</b> Address of Applicant :Professor and Director, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>3)Mr.Shivam</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>4)Mr. Raj Kumar Singh Bharti</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>5)Ms. Afreen Usmani</b> Address of Applicant :Umapati Mahadev College of Pharmacy Amroha Amroha --</p> <p><b>6)Mr. Anesh Sagar</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>7)Ms. Pooja Malik</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>8)Mr. Munna Singh</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad Moradabad -----</p> <p><b>9)Mr. Shami Iqbal</b> Address of Applicant :Assistant Professor, Goel Institute of Pharmacy and Sciences Lucknow -----</p>
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## (57) Abstract :

The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis and antianxiety activity of novel compound 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The novel process involved mixing of 0.004 mole of 7-(2-bromoethoxy)-4-methyl-2H-chromen-2-one and 0.004 mole 3-(4-chlorophenyl)-1-(2-hydroxyphenyl) prop-2-en-1-one was dissolved in 100 ml of anhydrous acetonitrile in a 250 ml round bottom flask. 0.008 mole of anhydrous potassium carbonate and catalytic amount of potassium iodide were added into above solution. The above mixture was refluxed for 12 h. After completion of reaction, the reaction mixture was filtered and solvent was removed under reduced pressure to obtain the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The obtained compound was washed with water and recrystallized from ethanol to afford the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one.

No. of Pages : 15 No. of Claims : 6