

(54) Title of the invention : COMPOUNDS INHIBITING PROTEOLYTIC ENZYMES FOR ANTI-SARS-CORONAVIRUS (SARS-COV-2) ACTIVITY

<p>(51) International classification :C07D0519000000, C07K0005090000, A61K0031568000, G16C0020500000, C07D0333360000</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>1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)SINGH, Manjinder Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)SHARMA, Pratibha Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>3)SINGH, Thakur Gurjeet Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>4)SINGH, Varinder Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>5)KAUR, Maninder Address of Applicant :Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala, Punjab - 147002, India. -----</p> <p>6)ARORA, Sandeep Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p>
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(57) Abstract :

The present disclosure relates generally to pharmaceutical compounds. Specifically, the present disclosure provides a compound of Formula I for inhibition of proteolytic enzymes Furin and 3CLpro for anti-SARS-CoV-2 activity or anti-coronavirus activity. The representative compounds exhibited high binding affinity in terms of good docking score and key residue interactions with the proteases. The docked compounds were also noted to have favorable ADME properties and drug-likeness.

No. of Pages : 24 No. of Claims : 4