

(12) PATENT APPLICATION PUBLICATION

(21) Application No.2189/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :20/07/2015

(43) Publication Date : 27/01/2017

(54) Title of the invention : NOVEL COMPOUNDS WITH ANTI-INFLAMMATORY ACTIVITY

(51) International classification	:C07J 5/00	(71)Name of Applicant : <b>1)CHITKARA UNIVERSITY</b> Address of Applicant :Chitkara University Chandigarh-Patiala National Highway (NH-64) Tehsil Rajpura, Distt. Patiala Punjab Punjab India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)DR ARORA SANDEEP</b>
(87) International Publication No	: NA	<b>2)DR CHITKARA MANSI</b>
(61) Patent of Addition to Application Number	:NA	<b>3)BABBAR RITCHU</b>
Filing Date	:NA	<b>4)DR SANDHU INDERJEET SINGH</b>
(62) Divisional to Application Number	:NA	<b>5)DR SHARMA SUMESH CHANDRA</b>
Filing Date	:NA	

(57) Abstract :

The present invention discloses novel compounds which are derivatives of ferulic acid, for use as anti-inflammatory agents. The derivatives are prepared using Mannich reaction and possess powerful anti-inflammatory activity. Out of a number of compounds which were theoretically possible by substitution of groups in ferulic acid at various positions, 9 novel compounds were actually synthesized in the laboratory. Out of these 9 compounds, 5 compounds showed powerful anti-inflammatory activity- same activity as that of the standard/reference compound but at 1/10th the dose (50 mg vs 5 mg). The structure of the 5 novel compounds (derivatives of ferulic acid) is given in Fig. 3, 4, 5, 6 and 7.

No. of Pages : 18 No. of Claims : 2