200006164-8

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
C12N 15/85, 15/10, 15/11, C12Q 1/68

A1

(11) International Publication Number: WO 99/57293

(43) International Publication Date: 11 November 1999 (11.11.99)

(21) International Application Number: PCT/IB99/00733

(22) International Filing Date: 22 April 1999 (22.04.99)

(30) Priority Data:
10/120174 30 April 1998 (30.04.98) JP

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(81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: HUMAN BMP–7 PROMOTER AND METHOD FOR EXPLORING BONE–RELATED SUBSTANCE BY USING THE SAME

(57) Abstract

The present invention provides a method for exploring low molecular weight compounds which regulate positively or negatively the expression of human BMP–7 with reference to a reporter activity by using 5' upstream region gene containing the human BMP–7 promoter and an animal cell introduced with the vector that has been connected to an appropriate reporter gene. The low molecular weight compounds and their derivatives obtained by the present method have morphogenetic activity or inhibiting activity for bone and cartilage through the expression of the human BMP–7 and are useful as preventive or therapeutic agents for cartilage and bone diseases. Furthermore, the low molecular weight compounds and their derivatives are useful as therapeutic agents for kidney diseases.