(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 November 2019 (21.11.2019)

WIPO | PCT

(10) International Publication Number
WO 2019/221570 A1

(51) International Patent Classification:
C12N 15/113 (2010.01) *A61K 31/7088* (2006.01)
C07K 14/00 (2006.01) *A61P 17/00* (2006.01)
A61K 8/60 (2006.01) *A61Q 19/08* (2006.01)
A61K 8/64 (2006.01) *A61K 38/00* (2006.01)

(21) International Application Number:
PCT/KR2019/005994

(22) International Filing Date:
03 May 2019 (03.05.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2018-0057352 18 May 2018 (18.05.2018) KR

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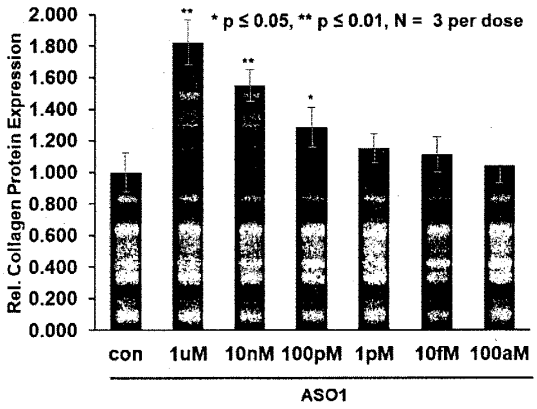
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,

WO 2019/221570 A1

(54) **Title:** MATRIX METALLOPROTEINASE-1 ANTISENSE OLIGONUCLEOTIDES

Fig. 12b



(57) **Abstract:** A method to treat diseases or conditions associated with the human MMP-1 gene transcription involving administration of the peptide nucleic acid derivative according to claim 1 to a subject. The present invention provides the peptide nucleic acid derivative according to claim 1 which targets 5' splice site of the human MMP-1 pre-mRNA "exon 5". The peptide nucleic acid derivatives in the present invention strongly induce splice variants of the human MMP-1 mRNA in cell and are very useful to treat conditions or diseases of skin aging associated with the human MMP-1 protein.

[Continued on next page]

KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report (Art. 21(3))*
— *with sequence listing part of description (Rule 5.2(a))*