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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 November 2011 (03.11.2011)

WIPO | PCT

(10) International Publication Number
WO 2011/134979 A9

(51) International Patent Classification:
C07K 14/78 (2006.01) *A61K 47/22* (2006.01)
A61K 9/00 (2006.01) *C07K 14/47* (2006.01)
A61K 38/18 (2006.01)

(21) International Application Number:
PCT/EP2011/056622

(22) International Filing Date:
27 April 2011 (27.04.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10161160.6 27 April 2010 (27.04.2010) EP

(71) Applicant *(for all designated States except US)*: **SCIL TECHNOLOGY GMBH** [DE/DE]; Fraunhoferstr. 15, 82152 Martinsried (DE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **HELLERBRAND, Klaus** [DE/DE]; St.-Georg-Strasse 24, 82272 Moorenweis (Eismerszell) (DE). **SIGL, Rainer** [DE/DE]; Gröbenbachweg 45, 82178 Puchheim (DE).

(74) Agents: **WEINZIERL, Gerhard** et al.; Schiweck Weinzierl Koch, Landsberger Str. 98, 80339 Munich (DE).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *with sequence listing part of description (Rule 5.2(a))*

(88) Date of publication of the international search report:
14 June 2012

(48) Date of publication of this corrected version:
16 August 2012

(15) Information about Correction:
see Notice of 16 August 2012

WO 2011/134979 A9

(54) Title: STABLE AQUEOUS MIA/CD-RAP FORMULATIONS

(57) Abstract: The present invention relates to stable aqueous formulations comprising at least 5 mg/mL CD-RAP and a charged amino acid, said amino acid preferably having a net charge at a pH between about 6 and 8. The ingredients of the formulation preferably provide stability over repeated freeze-thaw cycles. In a preferred aspect, the formulation is for use in therapy, preferably for use in the treatment of inflammatory disorders, preferably osteoarthritis. Furthermore, a kit comprising the formulation of the invention is provided.