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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 February 2013 (07.02.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/017494 A1

(51) International Patent Classification:
A61K 47/42 (2006.01) *A61P 35/00* (2006.01)
A61K 9/00 (2006.01)

(21) International Application Number:
PCT/EP2012/064576

(22) International Filing Date:
25 July 2012 (25.07.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11006338.5 2 August 2011 (02.08.2011) EP

(71) Applicant *(for all designated States except US)*: **SIGMA-TAU INDUSTRIE FARMACEUTICHE RIUNITE S.P.A.** [IT/IT]; Viale Shakespeare, 47, I-00144 Rome (IT).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **DE SANTIS, Rita** [IT/IT]; Via Casa Serena, 56, I-00040 Pomezia (RM) (IT).

(74) Agent: **TAGLIAFICO, Giulia**; c/o SIGMA-TAU Industrie Farmaceutiche Riunite S.p.A., Via Pontina, km 30,400, I-00040 Pomezia (RM) (IT).

(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, 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, QA, RO, RS, RU, RW, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

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

WO 2013/017494 A1

(54) Title: PHARMACEUTICAL COMPOSITION OF OXIDISED AVIDIN SUITABLE FOR INHALATION

(57) Abstract: The present invention describes oxidized avidin, suitable for inhalation, for conditioning the lung affected by inoperable/diffuse diseases, enabling the targeted delivery of biotinylated therapeutic agents to it.