

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2017/174586 A1

(43) International Publication Date
12 October 2017 (12.10.2017)

(51) International Patent Classification:
C07K 16/28 (2006.01)

(21) International Application Number:
PCT/EP2017/057997

(22) International Filing Date:
4 April 2017 (04.04.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
16163822.6 5 April 2016 (05.04.2016) EP

(71) Applicants: **UNIVERSITÄT STUTTGART** [DE/DE];
Keplerstrasse 7, 70174 Stuttgart (DE). **BALIOPHARM**
AG [CH/CH]; Stänzlergasse 4, 4051 Basel (CH).

(72) Inventors: **KONTERMANN, Roland**; Schlesierstrasse
106, 72622 Nürtingen (DE). **PFIZENMAIER, Klaus**;
Seehausstrasse 7, 75233 Tiefenbronn (DE). **RICHTER,**
Fabian; Ulrichstrasse 42, 73230 Kirchheim (DE).
ZETTLITZ, Kirstin; 15301 Valley Vista Blvd. #408,
Sherman Oaks, California 91403 (US). **SCHEURICH,**
Peter; Marsweg 4, 70565 Stuttgart (DE). **HERRMANN,**
Andreas; Moosackerweg 6, 4148 Pfeffingen (CH).

(74) Agents: **REDL, Gerda** et al.; Donau-City-Strasse 11, 1220
Vienna (AT).

(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, JP, KE, KG, KH, KN,
KP, 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))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))



WO 2017/174586 A1

(54) Title: MONOVALENT INHIBITOR OF huTNFRI INTERACTION

(57) Abstract: The invention provides for an inhibitor of the huTNFRI receptor which is a human or humanized antibody construct that monovalently recognizes huTNFRI through an antigen-binding moiety, which is characterized by specific CDR sequences, a pharmaceutical preparation thereof, method of producing the inhibitor and the medical use of the inhibitor.