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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 September 2022 (22.09.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/194988 A3

(51) International Patent Classification:
A61K 47/68 (2017.01) *A61P 19/02* (2006.01)
A61K 45/06 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:
PCT/EP2022/056932

(22) International Filing Date:
17 March 2022 (17.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
21163784.8 19 March 2021 (19.03.2021) EP

(71) Applicant: **HEIDELBERG PHARMA RESEARCH GMBH** [DE/DE]; Gregor-Mendel-Straße 22, 68526 Ladenburg (DE).

(72) Inventors: **HECHLER, Torsten**; c/o Heidelberg Pharma Research GmbH, Gregor-Mendel-Straße 22, 68526 Ladenburg (DE). **KULKE, Michael**; c/o Heidelberg Pharma Research GmbH, Gregor-Mendel-Straße 22, 68526 Ladenburg (DE). **PAHL, Andreas**; c/o Heidelberg Pharma Research GmbH, Gregor-Mendel-Straße 22, 68526 Ladenburg (DE).

(74) Agent: **MICHALSKI HÜTTERMANN & PARTNER PATENTANWÄLTE MBB**; Speditionstraße 21, 40221 Düsseldorf (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, 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, IT, JM, JO, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

(54) Title: B-LYMPHOCYTE SPECIFIC AMATOXIN ANTIBODY CONJUGATES

	R_1	R_2	R_3	R_4
α-amanitin	OH	OH	NH_2	OH
β-amanitin	OH	OH	OH	OH
γ-amanitin	H	OH	NH_2	OH
ε-amanitin	H	OH	OH	OH
amanin	OH	OH	OH	H
amaninamide	OH	OH	NH_2	H
amanullin	H	H	NH_2	OH
amanullinic acid	H	H	OH	OH
γ-amanin	H	OH	OH	H
γ-amaninamide	H	OH	NH2	H

FIG. 1

(57) Abstract: The present application relates to conjugates comprising an amatoxin, a target-binding moiety wherein the target is CD37, i.e., a CD37-binding moiety, and optionally a linker linking said amatoxin and said CD37-binding moiety. The invention further relates to the synthesis of said conjugates. In addition, the invention relates to a pharmaceutical composition comprising such conjugate for use in the treatment of immune cell-, particularly B-cell and/or lymphoma associated diseases and/or malignancies.

WO 2022/194988 A3

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

(88) Date of publication of the international search report:
29 December 2022 (29.12.2022)