

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 February 2022 (03.02.2022)



(10) International Publication Number
WO 2022/023540 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) A61P 35/00 (2006.01)
C07K 14/81 (2006.01)

(21) International Application Number:

PCT/EP2021/071421

(22) International Filing Date:

30 July 2021 (30.07.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/059,026 30 July 2020 (30.07.2020) US

(71) Applicant: **AVACTA LIFE SCIENCES LIMITED**
[GB/GB]; Unit 20 Ash Way, Thorp Arch Estate, Wetherby
LS23 7FA (GB).

(72) Inventors: **JENKINS, Emma**; 47 Brook Road, Stansted
Essex CM24 8BB (GB). **ADAM, Estelle**; 42b Bearton
Road, Hitchin Hertfordshire SG5 1UE (GB). **STANLEY,
Emma**; 65 West Hill, Hitchin Hertfordshire SG5 2HY
(GB). **BASRAN, Amrik**; 42 Beaumont Road, Cambridge
Cambridgeshire CB1 8PY (GB). **VINCENT, Matthew P.**;
12 Quimby Lane, Amesbury, Massachusetts 01913-5512
(US).

(74) Agent: **HOFFMANN EITLE PATENT- UND
RECHTSANWÄLTE PARTMBB**; Arabellastraße 30,
81925 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, 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, 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,
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))

(54) Title: SERUM ALBUMIN-BINDING POLYPEPTIDES

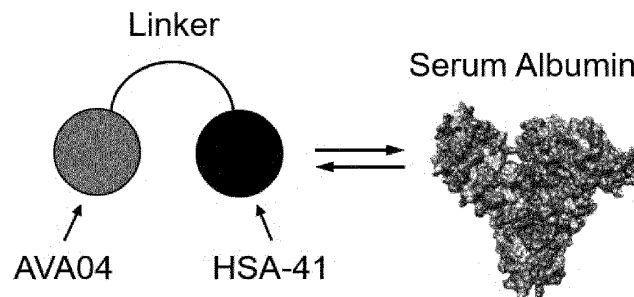


FIG. 12A

(57) Abstract: Provided herein, in some embodiments, are recombinantly engineered variant of stefin polypeptides (AFFIMER® polypeptides) that binds to human serum albumin and extends the half-life of the polypeptides. Also provided herein, in some embodiments, are composition containing the polypeptides, methods of using the polypeptides, and methods of producing the polypeptides.

WO 2022/023540 A1