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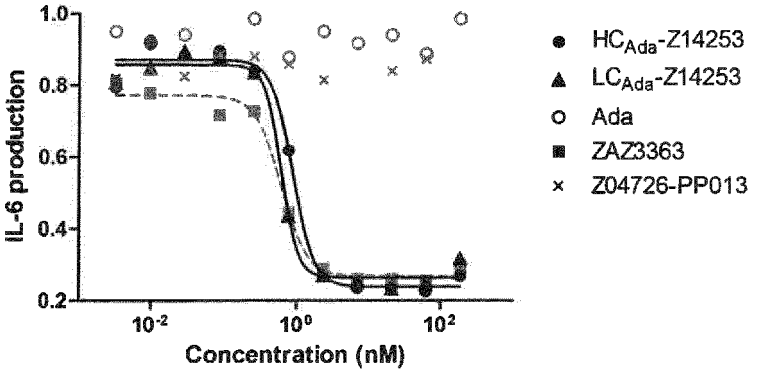
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(54) Title: IL-17A-BINDING POLYPEPTIDES

Figure 13

B



(57) Abstract: The present disclosure relates to a class of engineered polypeptides having a binding affinity for interleukin-17A (IL-17A), and provides an IL-17A binding polypeptide comprising the sequence $EX_2DX_4AX_6X_7EIX_{10}X_{11}$ LPNL $X_{16}X_{17}X_{18}QX_{20}X_{21}AFIX_{25}$ $X_{26}LX_{28}X_{29}$- Also disclosed is the use of such an interleukin-17A binding polypeptide as a diagnostic, prognostic and/or therapeutic agent.

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IL-17A-BINDING POLYPEPTIDES

Field of the invention

The present disclosure relates to a class of engineered polypeptides having a binding affinity for interleukin-17A (in the following referred to as IL-17A). The present disclosure also relates to the use of such an interleukin-17A binding polypeptide as a diagnostic, prognostic and/or therapeutic agent.

Background

The interleukin-17 (IL-17) family is a pro-inflammatory cytokine family that contributes to the pathogenesis of several inflammatory diseases. A major source of IL-17 is a lineage of T cells known as T helper 17 cells (Th17 cells), which are distinct from the classical Th1 and Th2 cell subsets. Results of studies in mouse models and in humans have identified a key role of IL-17 and Th17 cells in the pathogenesis of inflammation and autoimmunity as well as in host defense against certain pathogens. Based on these observations, IL-17 and Th17 cells are considered to be interesting targets for the treatment of several chronic inflammatory diseases such as psoriasis, rheumatoid arthritis (RA), ankylosing spondylitis (AS), systemic lupus erythematosus (SLE) and multiple sclerosis (MS) (Miossec and Kolls, 2012, Nat Rev Drug Discov 11:763-7).

The disulfide-linked homodimeric cytokine IL-17A is a member of the IL-17 family, which also includes IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. Within the family, IL-17A and IL-17F show the highest amino acid sequence homology to each other (50 %) and they bind to the same receptors: IL-17 receptor A (IL-17RA) and IL-17 receptor C (IL-17RC). Furthermore, IL-17A can be expressed with IL-17F as a heterodimer. Although IL-17A and IL-17F share high amino acid sequence homology, they perform distinct functions. IL-17A is involved in the development of autoimmunity, inflammation and tumors and also plays important roles in the host defense against bacterial and fungal infections. IL-17F, on the other hand, is mainly involved in mucosal host defense mechanisms (Iwakura et al, 2011, Immunity 34:149-62).

When IL-17A is secreted, it promotes the production of a variety of proinflammatory cytokines, chemokines, antimicrobial peptides and metalloproteinases (MMPs) from fibroblast, endothelial and epithelial cells. One important action of IL-17A is to induce granulopoiesis and neutrophil

recruitment to inflammatory sites. However, if uncontrolled, this reaction may lead to chronic inflammation with tissue destruction and neovascularization (Iwakura et al. 2008, Immunol Rev 226:57-79; Reynolds et al. 2010, Cytokine Growth Factor Rev 21:413-23). IL-17A is central in the pathogenesis of psoriasis, a common chronic inflammatory skin disease affecting about 2.5 % of the worldwide population (reviewed in Chiricozzi and Krueger, 2013, Expert Opin. Investig. Drugs 22(8):993-1005). Studies in patients with RA have shown that IL-17A positive cells are present in the inflamed synovium. In a mouse model of RA, the clinical scores were severely aggravated by administration of IL-17A via intra-articular gene transfer (Lubberts et al. 2002, Inflamm Res 51:102-4). Conversely, inhibition of IL-17A with monoclonal antibodies against the ligand or the receptor protected against development and consequences of arthritis (Lubberts et al. 2004, Arthritis Rheum 50:650-9). In MS patients, the IL-17A gene is reported to be overexpressed (Lock et al. 2002, Nat Med 8:500-8) and IL-17A and Th17 cells have been clearly implicated in the mouse model of experimental autoimmune encephalitis (Cua et al. 2003, Nature 421:744-8; Uyttenhove and Van Snick 2006, Eur J Immunol 36:2868-74). Increased levels of IL-17A have been shown to be clinically correlated with various ocular inflammatory diseases, such as uveitis, scleritis and dry eye disease (DED) in patients suffering from arthritis (Kang et al. 2011, J Korean Med Sci 26:938-44). Recent studies have showed IL-17 and IFNγ positive cells in clinical specimens of coronary atherosclerosis suggesting a local effect on vessel dysfunction (Eid et al. 2009, J Cardiothorac Surg 4:58). IL-17A may also be of interest in chronic obstructive pulmonary disease (COPD). The number of IL-17A positive cells is increased in lung tissues from COPD patients (Chu et al. 2011, Int Immunopharmacol 11:1780-8; Di Stefano et al. 2009, Clin Exp Immunol 157:316-24). IL-17RA deficient mice are resistant to the development of emphysema in a mouse model of COPD whereas overexpression of IL-17A accelerates the development of emphysema suggesting that IL-17A is sufficient to mediate this response (Chen et al. 2011, PLoS One 6:e20333; Shan et al. 2012, Sci Transl Med 4:117ra9). Thus, the involvement of IL-17A in several different autoimmune and inflammatory diseases suggests a wide applicability of therapeutics targeting IL-17A.

Targeting of IL-17A or its receptors is the most direct way to block IL-17A-mediated functions. Several biologics that neutralize IL-17A signaling are now in clinical development, including the anti-IL-17A monoclonal antibodies

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secukinumab and ixekizumab (Patel et al, 2013, Ann Rheum Dis 72 Suppl 2:ii116-23). Secukinumab has been approved for the treatment of psoriasis and is currently investigated for the treatment of psoriatic arthritis (PsA) and AS. Ixekizumab is currently in clinical trials for psoriasis, PsA and RA. Blocking of IL-17 receptor mediated signaling is also under investigation in the clinic, including the human monoclonal anti-IL-17RA antibody brodalumab for treatment of psoriasis, RA and asthma (Hu et al. 2011, Ann N Y Acad Sci 1217:60-76). Thus, clinical efficacy of IL-17A-inhibition has been proven in different diseases, notably in psoriasis, and the safety profile, including phase II and phase III data, shows good tolerability for IL-17A inhibitors (Genovese et al. 2010, Arthritis Rheum 62:929-39 and Hueber et al. 2010, Sci Transl Med 2:52ra72).

The unpredictable and chronic nature of psoriasis and other inflammatory diseases, as well as a high unmet medical need, warrants the development of new modes of treatment.

Since tissue penetration rate is negatively associated with the size of the molecule, a relatively large antibody molecule inherently has poor tissue distribution and penetration capacity. Moreover, although antibodies are widely used in a variety of routine contexts owing to high affinity and specificity to a multitude of possible antigens, such as for analytical, purification, diagnostic and therapeutic purposes, they still suffer from several drawbacks. Such drawbacks include the need for complex mammalian expression systems, aggregation tendencies, limited solubility, need to form and stably maintain disulfide bonds, and the risk of unwanted immune responses.

Thus, the use of monoclonal antibodies is not always optimal for therapy, and there is continued need for provision of agents with a high affinity for IL-17A. Of great interest is also the provision of uses of such molecules in the treatment, diagnosis and prognosis of disease.

Summary of the invention

It is an aspect of the present disclosure to provide new IL-17A binding agents, which could for example be used for diagnostic, prognostic and therapeutic applications.

It is an aspect of the present disclosure to provide new IL-17A binding agents, which may be used as domains in fusion proteins comprising one or more additional domains having similar or other functions.

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It is an aspect of the present disclosure to provide a molecule allowing for efficient therapy targeting various forms of inflammatory and autoimmune disease while alleviating the abovementioned and other drawbacks of current therapies.

It is a further aspect of the present disclosure to provide a molecule suitable for prognostic and diagnostic applications.

These and other aspects which are evident to the skilled person from the present disclosure are met by different aspects of the invention as claimed in the appended claims and as generally disclosed herein.

Thus, in the first aspect of the disclosure, there is provided an IL-17A binding polypeptide, comprising an IL-17A binding motif *BM*, which motif consists of an amino acid sequence selected from:

i) $EX_2DX_4AX_6X_7EIX_{10}X_{11}LPNL\ X_{16}X_{17}X_{18}QX_{20}X_{21}AFIX_{25}\ X_{26}LX_{28}X_{29}$

wherein, independently from each other,

X_2 is selected from A, H, M and Y;
X_4 is selected from A, D, E, F, K, L, M, N, Q, R, S and Y;
X_6 is selected from A, Q and W;
X_7 is selected from F, I, L, M, V, W and Y;
X_{10} is selected from A and W;
X_{11} is selected from A, D, E, F, G, L, M, N, Q, S, T and Y;
X_{16} is selected from N and T;
X_{17} is selected from H, W and Y;
X_{18} is selected from A, D, E, H and V;
X_{20} is selected from A, G, Q, S and W;
X_{21} is selected from A, D, E, F, H, K, N, R, T, V, W and Y;
X_{25} is selected from A, D, E, G, H, I, L, M, N, Q, R, S, T and V;
X_{26} is selected from K and S;
X_{28} is selected from I, L, N and R; and
X_{29} is selected from D and R;

and

ii) an amino acid sequence which has at least 89 % identity to the sequence defined in i).

The above definition of a class of sequence related, IL-17A binding polypeptides is based on a statistical analysis of a number of random polypeptide variants of a parent scaffold, that were selected for their interaction with IL-17A in several different selection experiments. The identified IL-17A binding motif, or "*BM*", corresponds to the target binding region of the parent scaffold, which region constitutes two alpha helices within a three-helical bundle protein domain. In the parent scaffold, the varied amino acid residues of the two *BM* helices constitute a binding surface for interaction with the constant Fc part of antibodies. In the present disclosure, the random variation of binding surface residues and subsequent selection of variants have replaced the Fc interaction capacity with a capacity for interaction with IL-17A.

As the skilled person will realize, the function of any polypeptide, such as the IL-17A binding capacity of the polypeptide of the present disclosure, is dependent on the tertiary structure of the polypeptide. It is therefore possible to make minor changes to the sequence of amino acids in a polypeptide without affecting the function thereof. Thus, the disclosure encompasses modified variants of the IL-17A binding polypeptide, which are such that the IL-17A binding characteristics are retained.

In this way, also encompassed by the present disclosure is an IL-17A binding polypeptide comprising an amino acid sequence with 89 % or greater identity to a polypeptide as defined in i). In some embodiments, the polypeptide may comprise a sequence which is at least 93 %, such as at least 96 % identical to a polypeptide as defined in i). For example, it is possible that an amino acid residue belonging to a certain functional grouping of amino acid residues (e.g. hydrophobic, hydrophilic, polar etc) could be exchanged for another amino acid residue from the same functional group.

In some embodiments, such changes may be made in any position of the sequence of the IL-17A binding polypeptide as disclosed herein. In other embodiments, such changes may be made only in the non-variable positions, also denoted scaffold amino acid residues. In such cases, changes are not allowed in the variable positions, i.e. positions denoted with an "X" in sequence i).

The term "% identity", as used throughout the specification, may for example be calculated as follows. The query sequence is aligned to the target sequence using the CLUSTAL W algorithm (Thompson *et al,* Nucleic Acids

Research, 22: 4673-4680 (1994)). A comparison is made over the window corresponding to the shortest of the aligned sequences. The shortest of the aligned sequences may in some instances be the target sequence. In other instances, the query sequence may constitute the shortest of the aligned sequences. The amino acid residues at each position are compared and the percentage of positions in the query sequence that have identical correspondences in the target sequence is reported as % identity.

In one particular embodiment according to the first aspect, there is provided a polypeptide as defined above, wherein, in sequence i),

X_2 is selected from A, H and M;
X_4 is selected from A, D, E, F, L, M, N, Q, R and Y;
X_{11} is selected from A, D, E, F, G, L, M, N, S, T and Y;
X_{18} is selected from A, D, E and V;
X_{20} is selected from A, G, Q and W;
X_{21} is selected from E, F, H, N, R, T, V, W and Y;
X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S, T and V; and
X_{28} is selected from I, N and R.

In another particular embodiment according to the first aspect, there is provided a polypeptide as defined in the paragraph immediately above, wherein in addition, in sequence i),

X_{16} is T;
X_{17} is W;
X_{21} is selected from E, F, H, W, T and Y;
X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S and T;
X_{26} is K; and
X_{29} is D.

"X_n" and "X_m" are used herein to indicate amino acids in positions n and m in the sequence i) as defined above, wherein n and m are integers indicating the position of an amino acid within sequence i) as counted from the N terminus. For example, X_3 and X_7 indicate the amino acids in positions three and seven, respectively, from the N-terminal end of sequence i).

In embodiments according to the first aspect, there are provided polypeptides wherein X_n in sequence i) is independently selected from a group of possible residues as listed in Table 1. The skilled person will

appreciate that X_n may be selected from any one of the listed groups of possible residues and that this selection is independent from the selection of amino acids in X_m, wherein n≠m. Thus, any of the listed possible residues in position X_n in Table 1 may be independently combined with any of the listed possible residues any other variable position in Table 1.

The skilled person will appreciate that Table 1 is to be read as follows: In one embodiment according to the first aspect, there is provided a polypeptide wherein amino acid residue "X_n" in sequence i) is selected from "Possible residues". Thus, Table 1 discloses several specific and individualized embodiments of the first aspect of the present disclosure. For example, in one embodiment according to the first aspect, there is provided a polypeptide wherein X_4 in sequence i) is selected from A, D, E, F, L, N, Q, R and Y, and in another embodiment according to the first aspect, there is provided a polypeptide wherein X_4 in sequence i) is selected from D, E, N and Y. For avoidance of doubt, the listed embodiments may be freely combined in yet other embodiments. For example, one such combined embodiment is a polypeptide in which X_4 is selected from D, E, F, N, Q, R and Y, while X_7 is selected from F, V and W, and X_{18} is selected from A, D, E and H, and so on.

Table 1:

X_n	Possible residues
X_2	A, M, Y
X_2	A, M
X_2	A
X_4	A, D, E, F, K, L, M, N, Q, R, Y
X_4	A, D, E, F, L, M, N, Q, R, S, Y
X_4	A, D, E, F, L, M, N, Q, R, Y
X_4	A, D, E, F, L, N, Q, R, Y
X_4	A, D, E, F, M, N, Q, Y
X_4	A, D, E, F, L, Q, R
X_4	A, D, E, L, Q, R
X_4	A, D, Q, R
X_4	D, Q
X_4	A, D, E, F, N, Q, Y
X_4	D, E, F, N, Q, R, Y
X_4	D, E, N, Q, Y
X_4	D, E, N, Y
X_4	D, E, Q, Y
X_4	D, E, Y
X_4	D, E
X_4	D

X_n	Possible residues
X_4	Q
X_6	A, Q
X_6	A, W
X_6	Q, W
X_6	W
X_6	A
X_6	Q
X_7	F, I, L, V, W, Y
X_7	F, I, L, V, Y
X_7	I, L, V, Y
X_7	L, V, Y
X_7	L, V
X_7	F, M, V, W, Y
X_7	F, V, W, Y
X_7	F, V, W
X_7	F, V
X_7	V
X_7	L
X_7	Y
X_{10}	A

X_n	Possible residues
X_{10}	W
X_{11}	A, D, E, F, G, L, M, N, S, T, Y
X_{11}	A, D, E, F, L, M, S, T
X_{11}	A, D, E, F, G, L, M, N, S, Y
X_{11}	A, D, E, F, G, S, Y
X_{11}	A, D, E, F, L, M, S
X_{11}	A, D, E, L, M, S
X_{11}	A, D, E, L, S
X_{11}	A, D, E, L, M
X_{11}	A, D, E, L
X_{11}	D, E, L
X_{11}	D, L
X_{11}	A, D, E, F, S, Y
X_{11}	A, D, E, S
X_{11}	A, D, S
X_{11}	A, S
X_{11}	A, D
X_{11}	D, S
X_{11}	L
X_{11}	D
X_{11}	S
X_{11}	A
X_{11}	E
X_{16}	T
X_{16}	N
X_{17}	H, W
X_{17}	Y, W
X_{17}	H, Y
X_{17}	W
X_{17}	H
X_{17}	Y
X_{18}	A, D, E, V
X_{18}	A, D, E, H
X_{18}	A, D, H
X_{18}	A, D, E
X_{18}	A, D
X_{18}	D, E
X_{18}	D
X_{18}	A
X_{20}	A, G, Q, W
X_{20}	A, Q, S, W
X_{20}	A, Q, W
X_{20}	G, Q, W
X_{20}	G, W
X_{20}	Q, W

X_n	Possible residues
X_{20}	A, W
X_{20}	W
X_{20}	A
X_{20}	Q
X_{21}	A, D, E, F, H, N, R, T, V, W, Y
X_{21}	A, D, E, F, H, N, R, V, W, Y
X_{21}	E, F, H, N, R, V, W, Y
X_{21}	F, H, N, R, V, W, Y
X_{21}	E, F, H, T, W, Y
X_{21}	E, F, H, W, Y
X_{21}	F, H, R, W, Y
X_{21}	F, H, W, Y
X_{21}	F, W, Y
X_{21}	W, Y
X_{21}	F, Y
X_{21}	F, W
X_{21}	Y
X_{21}	W
X_{21}	F
X_{25}	A, D, E, G, H, I, L,N,Q,R, S, T, V
X_{25}	A, D, E, G, H, I, L, N, Q, R, S, T
X_{25}	A, D, E, G, H, N, Q, R, S, T, V
X_{25}	D, E, G, N, Q, R, S, T, V
X_{25}	D, E, N, Q, R, V
X_{25}	A, D, E, G, I, L, N, Q, R, S, T
X_{25}	D, E, G, N, Q, R, S
X_{25}	D, E, N, Q, R, S
X_{25}	A, E, G, L, N, Q, R, S, T
X_{25}	E, N, Q, R, S
X_{25}	E, N, Q, S, T
X_{25}	E, N, Q, S
X_{25}	N, Q, R
X_{25}	E, Q, R
X_{25}	Q, R, S
X_{25}	Q, S
X_{25}	Q, R
X_{25}	Q
X_{25}	S
X_{25}	N
X_{25}	E
X_{26}	K
X_{26}	S
X_{28}	I, N, R
X_{28}	I, L, R
X_{28}	I, R

X_n	Possible residues
X_{28}	N, R
X_{28}	I, N
X_{28}	R
X_{28}	I

X_n	Possible residues
X_{28}	N
X_{29}	D
X_{29}	R

In a more specific embodiment defining a sub-class of IL-17A binding polypeptides, sequence i) fulfills at least six of the eleven conditions I-XI:

I. X_2 is A;
II. X_4 is selected from D, E and Q;
III. X_6 is A;
IV. X_7 is selected from F and V;
V. X_{16} is T;
VI. X_{17} is W;
VII. X_{18} is selected from A and D;
VIII. X_{20} is W;
IX. X_{26} is K;
X. X_{28} is R; and
XI. X_{29} is D.

In some examples of an IL-17A binding polypeptide according to the first aspect, sequence i) fulfills at least seven of the eleven conditions I-XI. More specifically, sequence i) may fulfill at least eight of the eleven conditions I-XI, such as at least nine of the eleven conditions I-XI, such as at least ten of the eleven conditions I-XI, such as all of the eleven conditions I-XI.

In some embodiments of an IL-17A binding polypeptide according to the first aspect, X_2X_6, X_2X_{10} or X_6X_{10} is AA. In some embodiments, X_2X_{17}, X_2X_{20}, X_6X_{17}, X_6X_{20}, $X_{10}X_{17}$ or $X_{10}X_{20}$ is AW. In some embodiments, X_2X_{28}, X_6X_{28} or $X_{10}X_{28}$ is AR. In some embodiments, $X_{17}X_{28}$ or $X_{20}X_{28}$ is WR. In some embodiments, $X_{17}X_{20}$ is WW.

As described in detail in the experimental section to follow, the selection of IL-17A binding polypeptide variants has led to the identification of a number of individual IL-17A binding motif (*BM*) sequences. These sequences constitute individual embodiments of sequence i) according to this aspect. The sequences of individual IL-17A binding motifs correspond to

amino acid positions 8-36 in SEQ ID NO:1-1216 presented in Figure 1. Hence, in one embodiment of the IL-17A binding polypeptide according to this aspect, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-1216. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-66, 1200, 1206 and 1214. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-66. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-35. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-27. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-10. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-7. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-4. In one embodiment, sequence i) corresponds to the sequence from position 8 to position 36 in SEQ ID NO:1.

In some embodiments of the present disclosure, the *BM* as defined above "forms part of" a three-helix bundle protein domain. This is understood to mean that the sequence of the *BM* is "inserted" into or "grafted" onto the sequence of the original three-helix bundle domain, such that the *BM* replaces a similar structural motif in the original domain. For example, without wishing to be bound by theory, the *BM* is thought to constitute two of the three helices of a three-helix bundle, and can therefore replace such a two-helix motif within any three-helix bundle. As the skilled person will realize, the replacement of two helices of the three-helix bundle domain by the two *BM* helices has to be performed so as not to affect the basic structure of the polypeptide. That is, the overall folding of the Cα backbone of the polypeptide according to this embodiment of the invention is substantially the same as that of the three-helix bundle protein domain of which it forms a part, e.g. having the same elements of secondary structure in the same order etc. Thus, a *BM* according to the disclosure "forms part" of a three-helix bundle

domain if the polypeptide according to this embodiment of the aspect has the same fold as the original domain, implying that the basic structural properties are shared, those properties e.g. resulting in similar CD spectra. The skilled person is aware of other parameters that are relevant.

In particular embodiments, the IL-17A binding motif (*BM)* thus forms part of a three-helix bundle protein domain. For example, the *BM* may essentially constitute two alpha helices with an interconnecting loop, within said three-helix bundle protein domain. In particular embodiments, said three-helix bundle protein domain is selected from domains of bacterial receptor proteins. Non-limiting examples of such domains are the five different three-helical domains of Protein A from *Staphylococcus aureus*, such as domain B, and derivatives thereof. In some embodiments, the three-helical bundle protein domain is a variant of protein Z, which is derived from domain B of staphylococcal Protein A.

In some embodiments where the IL-17A binding polypeptide as disclosed herein forms part of a three-helix bundle protein domain, the IL-17A binding polypeptide may comprise an amino acid sequence binding module (*BMod*) selected from:

iii) K-[*BM*]-DPSQS X_aX_bLLX_c EAKKL $X_dX_eX_f$Q;

wherein
[*BM*] is an IL-17A binding motif as defined herein, provided that X_{29} is D;
X_a is selected from A and S;
X_b is selected from N and E;
X_c is selected from A, S and C;
X_d is selected from E, N and S;
X_e is selected from D, E and S;
X_f is selected from A and S; and

iv) an amino acid sequence which has at least 85 % identity to a sequence defined by iii).

It may be beneficial in some embodiments that said polypeptides exhibit high structural stability, such as resistance to chemical modifications,

changes in physical conditions and proteolysis, during production or storage, as well as *in vivo*. Thus, in other embodiments where the IL-17A binding polypeptide as disclosed herein forms part of a three-helix bundle protein domain, the IL-17A binding polypeptide may comprise an amino acid sequence binding module *(BMod)* selected from:

v) K-[*BM*]-QPEQS X_aX_bLLX_c EAKKL $X_dX_eX_f$Q,

wherein
[*BM*] is an IL-17A binding motif as defined herein, provided that X_{29} is R;
X_a is selected from A and S;
X_b is selected from N and E;
X_c is selected from A, S and C;
X_d is selected from E, N and S;
X_e is selected from D, E and S;
X_f is selected from A and S; and

vi) an amino acid sequence which has at least 85 % identity to a sequence defined by v).

As discussed above, polypeptides comprising minor changes as compared to the above amino acid sequences, which changes do not largely affect the tertiary structure or function of the polypeptide, are also within the scope of the present disclosure. Thus, in some embodiments, sequence iv and vi) have at least at least 87 %, such as at least 89 %, such as at least 91 %, such as at least 93 %, such as at least 95 %, such as at least 97 % identity to a sequence defined by iii) or v), respectively.

In one embodiment, X_a in sequence iii) or v) is A.
In one embodiment, X_a in sequence iii) or v) is S.
In one embodiment, X_b in sequence iii) or v) is N.
In one embodiment, X_b in sequence iii) or v) is E.
In one embodiment, X_c in sequence iii) or v) is A.
In one embodiment, X_c in sequence iii) or v) is S.
In one embodiment, X_c in sequence iii) or v) is C.
In one embodiment, X_d in sequence iii) or v) is E.
In one embodiment, X_d in sequence iii) or v) is N.

In one embodiment, X_d in sequence iii) or v) is S.

In one embodiment, X_e in sequence iii) or v) is D.

In one embodiment, X_e in sequence iii) or v) is E.

In one embodiment, X_e in sequence iii) or v) is S.

In one embodiment, X_dX_e in sequence iii) or v) is selected from EE, ES, SD, SE and SS.

In one embodiment, X_dX_e in sequence iii) or v) is ES.

In one embodiment, X_dX_e in sequence iii) or v) is SE.

In one embodiment, X_dX_e in sequence iii) or v) is SD.

In one embodiment, X_f in sequence iii) or v) is A.

In one embodiment, X_f in sequence iii) or v) is S.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is A and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A and X_f is A.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is C and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is C and X_f is S.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is ND and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is ND and X_f is A.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is ND and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ND and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ND and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is ND and X_f is S.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is SE and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SE and X_f is A.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is SE and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is SE and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SE and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is SE and X_f is S.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is ES and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is ES and X_f is A.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is ES and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ES and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is ES and X_f is S.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is SD and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SD and X_f is A.

In one embodiment, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is SD and X_f is A.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is SD and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SD and X_f is S.

In one embodiment, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is SD and X_f is S.

In yet a further embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the

group consisting of SEQ ID NO:1-1216. In one embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-66, 1200, 1206 and 1214. In one embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-66. In one embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-35. In another embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-27. In one embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-10. In yet another embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-7. In one embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-4 and in another embodiment, sequence iii) corresponds to the sequence from position 7 to position 55 in SEQ ID NO:1.

Also, in a further embodiment, there is provided an IL-17A binding polypeptide, which comprises an amino acid sequence selected from:

vii) YA-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined above; and

viii) an amino acid sequence which has at least 86 % identity to a sequence defined by vii).

In an alternative further embodiment, there is provided an IL-17A binding polypeptide, which comprises an amino acid sequence selected from:

ix) FA-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined above; and

x) an amino acid sequence which has at least 86 % identity to a sequence defined by ix).

Alternatively, there is provided an IL-17A binding polypeptide, which comprises an amino acid sequence selected from:

xi) FN-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined above; and

xii) an amino acid sequence which has at least 86 % identity to a sequence defined by xi).

As discussed above, polypeptides comprising minor changes as compared to the above amino acid sequences without largely affecting the tertiary structure and the function thereof also fall within the scope of the present disclosure. Thus, in some embodiments, the IL-17A binding polypeptides as defined above may for example have a sequence which is at least 88 %, such as at least 90 %, such as at least 92 %, such as at least 94 %, such as at least 96 %, such as at least 98 % identical to a sequence defined by vii), ix) or xi).

In some embodiments, the IL-17A binding motif may form part of a polypeptide comprising an amino acid sequence selected from

SEQ ID NO:	
1250	ADNNFNK-*[BM]*-DPSQSANLLSEAKKLNESQAPK;
1251	ADNKFNK-*[BM]*-DPSQSANLLAEAKKLNDAQAPK;
1252	ADNKFNK-*[BM]*-DPSVSKEILAEAKKLNDAQAPK;
1253	ADAQQNNFNK-*[BM]*-DPSQSTNVLGEAKKLNESQAPK;
1254	AQHDE-*[BM]*-DPSQSANVLGEAQKLNDSQAPK;
1255	VDNKFNK-*[BM]*-DPSQSANLLAEAKKLNDAQAPK;
1256	AEAKYAK-*[BM]*-DPSESSELLSEAKKLNKSQAPK;
1257	VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNDAQAPK;
1258	VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNDSQAPK;
1259	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
1260	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAP;
1261	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDAQAPK;
1262	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDAQAP;
1263	AEAKFAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
1264	AEAKFAK-*[BM]*-DPSQSSELLSEAKKLNDSQAP;
1265	AEAKYAK-*[BM]*-DPSQSSELLAEAKKLNDAQAPK;
1266	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;
1267	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAP;
1268	AEAKFAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;
1269	AEAKFAK-*[BM]*-DPSQSSELLSEAKKLSESQAP;
1270	AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSEAQAPK;
1271	AEAKYAK-*[BM]*-QPEQSSELLSEAKKLSESQAPK;
1272	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAPK;
1273	AEAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAP;

1274 AEAKYAK-*[BM]*-DPSQSSELLAEAKKLESAQAPK;
1275 AEAKYAK-*[BM]*-QPEQSSELLSEAKKLESSQAPK;
1276 AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAPK;
1277 AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAP;
1278 AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSDSQAPK;
1279 AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSDAQAPK;
1280 AEAKYAK-*[BM]*-QPEQSSELLSEAKKLSDSQAPK;
1281 VDAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
1282 VDAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;
1283 VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSEAQAPK;
1284 VDAKYAK-*[BM]*-QPEQSSELLSEAKKLSESQAPK;
1285 VDAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAPK;
1286 VDAKYAK-*[BM]*-DPSQSSELLAEAKKLESAQAPK;
1287 VDAKYAK-*[BM]*-QPEQSSELLSEAKKLESSQAPK;
1288 VDAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAPK;
1289 VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSDSQAPK;
1290 VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSDAQAPK;
1291 VDAKYAK-*[BM]*-QPEQSSELLSEAKKLSDSQAPK;
1292 VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNKAQAPK;
1293 AEAKYAK-*[BM]*-DPSQSSELLAEAKKLNKAQAPK; and
1294 ADAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;

wherein [*BM*] is an IL-17A binding motif as defined above.

In one embodiment, the IL-17A binding polypeptide comprises an amino acid sequence selected from:

xiii) VDAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined above; and

xiv) an amino acid sequence which has at least 86 % identity to the sequence defined in xiii).

Again, polypeptides comprising minor changes as compared to the above amino acid sequences without largely affecting the tertiary structure and the function thereof are also within the scope of the present disclosure. Thus, in some embodiments, the IL-17A binding polypeptides as defined above may for example have a sequence which is at least 87 %, such as at least 89 %, such as at least 91 %, such as at least 93 %, such as at least 94 %, such as at least 96 %, such as at least 98 % identical to the sequence defined by xiii).

Sequence xiii) in such a polypeptide may be selected from the group consisting of SEQ ID NO:1-1216. In one embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-66, 1200, 1206 and 1214. In one embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-66. In one embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-35. In another embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-27. In one embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-10. In one embodiment, sequence xiii) is selected from SEQ ID NO:1-7. In one embodiment, sequence xiii) is selected from the group consisting of SEQ ID NO:1-4. In one embodiment, sequence xiii) is SEQ ID NO:1.

In one embodiment, the IL-17A binding polypeptide comprises an amino acid sequence selected from:

xv) AEAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined above; and

xvi) an amino acid sequence which has at least 86 % identity to the sequence defined in xv).

Again, polypeptides comprising minor changes as compared to the above amino acid sequences without largely affecting the tertiary structure and the function thereof are also within the scope of the present disclosure. Thus, in some embodiments, the IL-17A binding polypeptides as defined above may for example have a sequence which is at least 87 %, such as at least 89 %, such as at least 91 %, such as at least 93 %, such as at least 94 %, such as at least 96 %, such as at least 98 % identical to the sequence defined by xv).

Sequence xv) in such a polypeptide may be selected from the group consisting of SEQ ID NO:1217-1222. In one embodiment, sequence xv) is selected from the group consisting of SEQ ID NO:1218-1222. In one embodiment, sequence xv) is selected from the group consisting of SEQ ID NO:1219-1222. In another embodiment, sequence xv) is selected from the group consisting of SEQ ID NO:1219 and SEQ ID NO:1222. In one embodiment, sequence xv) is SEQ ID NO:1219.

The small size and robustness of the IL-17A binding domains of the present disclosure confer several advantages over conventional monoclonal antibody based therapies. Such advantages include the possibility of

subcutaneous (s.c.) administration at higher doses than antibodies, alternative routes of administration, flexibility in formatting for superior potency and absence of Fc-mediated side effects. The small size combined with potential for very high solubility (>100 mg/ml) and stability allows for extreme molar amounts of drug in a small volume for s.c. injections. For systemic administration, this suggests outpatient "home use" treatment using convenient small prefilled syringes or auto-injectors, with low volume and well tolerated administration of doses. In addition, the capacity for high molar concentrations in drug preparations in combination with the ability to retain functional stability in diverse formulations opens up for topical (skin, eye, lung) administration routes. Psoriasis, asthma, uveitis and dry eye syndrome are examples of indications where alternative administration routes could be especially relevant in IL-17A mediated disease.

The terms "IL-17A binding" and "binding affinity for IL-17A" as used in this specification refer to a property of a polypeptide which may be tested for example by ELISA, by use of surface plasmon resonance (SPR) technology, or by use of the Kinetic Exclusion Assay (KinExA®). For example as described in the examples below, IL-17A binding affinity may be tested in an experiment in which samples of the polypeptide are captured on antibody coated ELISA plates and biotinylated IL-17A, followed by streptavidin conjugated HRP, are added. TMB substrate is added and the absorbance at 450 nm is measured using a multi-well plate reader, such as Victor^3 (Perkin Elmer). The skilled person may then interpret the results obtained by such experiments to establish at least a qualitative measure of the binding affinity of the polypeptide for IL-17A. If a quantitative measure is desired, for example to determine the EC50 value (the half maximal effective concentration) for the interaction, ELISA may also be used. The response of the polypeptides against a dilution series of biotinylated IL-17A are measured using ELISA as described above. The skilled person may then interpret the results obtained by such experiments and EC50 values may be calculated from the results using for example GraphPad Prism 5 and non-linear regression.

IL-17A binding affinity may also be tested in an experiment in which IL-17A, or a fragment thereof, is immobilized on a sensor chip of the surface plasmon resonance (SPR) instrument, and the sample containing the polypeptide to be tested is passed over the chip. Alternatively, the polypeptide to be tested is immobilized on a sensor chip of the instrument, and a sample

containing IL-17A, or a fragment thereof, is passed over the chip. The skilled person may then interpret the results obtained by such experiments to establish at least a qualitative measure of the binding affinity of the polypeptide for IL-17A. If a quantitative measure is desired, for example to determine a K_D value for the interaction, surface plasmon resonance methods may also be used. Binding values may for example be defined in a Biacore (GE Healthcare) or ProteOn XPR 36 (Bio-Rad) instrument. IL-17A is suitably immobilized on a sensor chip of the instrument, and samples of the polypeptide whose affinity is to be determined are prepared by serial dilution and injected in random order. K_D values may then be calculated from the results using for example the 1:1 Langmuir binding model of the BIAevaluation 4.1 software, or other suitable software, provided by the instrument manufacturer.

Another method for determining binding affinity for IL-17A is the Kinetic Exclusion Assay (KinExA®; Sapidyne Instruments Inc, Boise, USA; Darling and Brault, 2004. Assay and Drug Dev Tech 2(6):647-657) for measurements of the equilibrium binding affinity and kinetics between unmodified molecules in solution. For affinity analysis, the equilibrium dissociation constant, K_D, and the rate of association, k_a, are experimentally determined, while the rate of dissociation, k_d, may be calculated based on the equation $k_d = K_D * k_a$.

A KinExA® K_D analysis requires immobilization of one interaction partner (e.g. the titrated binding partner) to a solid phase, which is then used as a probe to capture the other interaction partner (e.g. the constant binding partner) free in solution once an equilibrium is reached. For each experiment, a series of solutions with a constant concentration of one binding partner and a titration of the other binding partner are equilibrated. The solutions are then briefly exposed to the solid phase and a portion of free constant binding partner is captured and labeled with a fluorescent secondary molecule. The short contact time with the solid phase is less than the time needed for dissociation of the pre-formed complex in solution, meaning that competition between the solution and the solid phase titrated binding partner is “kinetically excluded”. Since the solid phase is only used as a probe for the free constant binding partner in each sample, the solution equilibrium is not altered during measurements. A K_D value is calculated from signals generated from captured free constant binding partner, which are directly proportional to the concentration of free constant binding partner in the equilibrated sample. The data may be analyzed using the KinExA® Pro software and least squares

analysis to fit the optimal solutions for the K_D and the Active Binding site Concentration (ABC) to a curve representative of a stoichiometric relevant model, for instance a 1:1 reversible bi-molecular interaction.

Determination of binding kinetics may be done in a similar format as the equilibrium analysis, except measurements are collected "pre-equilibrium" and the binding signals are a function of time and total concentration of the titrated binding partner. There are two methods that can be used to determine the k_a. The "direct method" holds the concentrations of titrated and constant binding partners fixed, and the solution is probed over time. The amount of the free constant binding partner in the solution will decrease as the sample moves toward equilibrium. The "inject method" holds incubation time and one partner's concentration fixed, while titrating concentrations of the other partner. As the concentration of the titrated binding partner increases, the amount of free constant binding partner will decrease as more complexes are formed.

In one embodiment, the IL-17A binding polypeptide is capable of binding to IL-17A such that the K_D value of the interaction is at most 1×10^{-6} M, such as at most 1×10^{-7} M, such as at most 1×10^{-8} M, such as at most 1×10^{-9} M.

In one embodiment, an IL-17A binding polypeptide according to any aspect disclosed herein is capable of binding to an IL-17A molecule selected from the group consisting of human IL-17A and murine IL-17A. In one embodiment, the IL-17A binding polypeptide is capable of binding to human IL-17A. In one embodiment, the IL-17A binding polypeptide is capable of binding to murine IL-17A. In one embodiment, the IL-17A binding polypeptide is capable of binding to human IL-17A and to murine IL-17A. In this regard, human IL-17A may comprise the amino acid sequence SEQ ID NO:1226, or an antigenically effective fragment thereof. Likewise, murine IL-17A may comprise the amino acid sequence SEQ ID NO:1227, or an antigenically effective fragment thereof.

The skilled person will understand that various modifications and/or additions can be made to an IL-17A binding polypeptide according to any aspect disclosed herein in order to tailor the polypeptide to a specific application without departing from the scope of the present disclosure.

For example, in one embodiment, there is provided an IL-17A binding polypeptide as described herein, which polypeptide has been extended by and/or comprises additional amino acids at the C terminus and/or N terminus. Such a polypeptide should be understood as a polypeptide having one or more additional amino acid residues at the very first and/or the very last position in the polypeptide chain, i.e. at the N- and/or C-terminus of sequence i) or ii). Thus, an IL-17A binding polypeptide may comprise any suitable number of additional amino acid residues, for example at least one additional amino acid residue. Each additional amino acid residue may individually or collectively be added in order to, for example, improve and/or simplify production, purification, stabilization *in vivo* or *in vitro*, coupling or detection of the polypeptide. Such additional amino acid residues may comprise one or more amino acid residues added for the purpose of chemical coupling. One example of this is the addition of a cysteine residue. Additional amino acid residues may also provide a ”tag” for purification or detection of the polypeptide, such as a His_6 tag, a $(HisGlu)_3$ tag (“HEHEHE” tag) or a ”myc” (c-myc) tag or a ”FLAG” tag for interaction with antibodies specific to the tag or immobilized metal affinity chromatography (IMAC) in the case of the His_6-tag.

The further amino acids as discussed above may be coupled to the IL-17A binding polypeptide by means of chemical conjugation (using known organic chemistry methods) or by any other means, such as expression of the IL-17A binding polypeptide as a fusion protein or joined in any other fashion, either directly or via a linker, for example an amino acid linker.

The further amino acids as discussed above may for example comprise one or more polypeptide domain(s). A further polypeptide domain may provide the IL-17A binding polypeptide with another function, such as for example yet another binding function, an enzymatic function, a toxic function, a fluorescent signaling function or combinations thereof.

A further polypeptide domain may moreover provide another IL-17A binding moiety with the same IL-17A binding function. Thus, in a further embodiment, there is provided an IL-17A binding polypeptide in a multimeric form. Said multimer is understood to comprise at least two IL-17A binding polypeptides as disclosed herein as monomer units, the amino acid sequences of which may be the same or different. Multimeric forms of the polypeptides may comprise a suitable number of domains, each having an IL-17A binding motif, and each forming a monomer within the multimer. These domains may have the same amino acid sequence, but alternatively, they

may have different amino acid sequences. In other words, the IL-17A binding polypeptide of the invention may form homo- or heteromultimers, for example homo- or heterodimers. In one embodiment, there is provided an IL-17A binding polypeptide, wherein said monomeric units are covalently coupled together. In another embodiment, said IL-17A binding polypeptide monomer units are expressed as a fusion protein. In one embodiment, there is provided an IL-17A binding polypeptide in dimeric form.

Additionally, "heterogenic" fusion polypeptides or proteins, or conjugates, in which an IL-17A binding polypeptide described herein, or multimer thereof, constitutes a first domain, or first moiety, and the second and further moieties have other functions than binding IL-17A, are also contemplated and fall within the ambit of the present disclosure. The second and further moiety/moieties of the fusion polypeptide or conjugate in such a protein suitably have a desired biological activity.

Thus, in a second aspect of the present disclosure, there is provided a fusion protein or a conjugate, comprising a first moiety consisting of an IL-17A binding polypeptide according to the first aspect, and a second moiety consisting of a polypeptide having a desired biological activity. In another embodiment, said fusion protein or conjugate may additionally comprise further moieties, comprising desired biological activities that can be either the same or different from the biological activity of the second moiety.

Non-limiting examples of a desired biological activity comprise a therapeutic activity, a binding activity and an enzymatic activity.

In one embodiment, the second moiety having a desired biological activity is a therapeutically active polypeptide.

Non-limiting examples of therapeutically active polypeptides are biomolecules, such as molecules selected from the group consisting of human endogenous enzymes, hormones, growth factors, chemokines, cytokines and lymphokines. Non-limiting examples of contemplated cytokines are IL-2, IL-4, IL-7, IL-10, IL-11, IL-13, IL-21, IL-27, IL-35, IFNβ and TGFβ. Non-limiting examples of contemplated chemokines are SDF-1/CXCL12, BCL/BCA-1/CXCL13, CXCL16, HCC1/CCL14, TARC/CCL17, PARC/CCL18, MIP-3β/ELC/CCL19, SLC/CCL21, CCL25/TECK and CCL27/CTACK.

Non-limiting examples of binding activities are binding activities which increase the *in vivo* half-life of the fusion protein or conjugate. In one particular embodiment, said binding activity is an albumin binding activity which increases the *in vivo* half-life of the fusion protein or conjugate. In one embodiment, said albumin binding activity is provided by the albumin binding domain of streptococcal protein G or a derivative thereof. In another particular embodiment, said binding activity is an FcRn binding activity which increases the *in vivo* half-life of the fusion protein or conjugate.

In one embodiment, the fusion protein or conjugate of this second aspect comprises two monomers of the IL-17A binding polypeptide of the first aspect, whose amino acid sequences may be the same or different, linked by an albumin binding moiety. In a specific embodiment of this construct, the fusion protein or conjugate comprises two IL-17A binding monomers with an albumin binding moiety between them. Said albumin binding moiety may e.g. be a "GA" albumin binding domain from streptococcal protein G, such as "GA3", or a derivative thereof as described in any one of WO2009/016043, WO2012/004384, WO2014/048977 and WO2015/091957.

In one embodiment, the format of such a fusion protein or conjugate is "Z-A-Z", where each "Z" individually is an IL-17A binding polypeptide as described herein, and "A" is an albumin binding domain. In one embodiment, such an IL-17A binding polypeptide with the "Z-A-Z" format is capable of binding to IL-17A such that the K_D value of the interaction is at most 1×10^{-10} M, such as at most 1×10^{-11} M, such as at most 1×10^{-12} M, such as at most 1×10^{-13} M. In one embodiment, such a "Z-A-Z" polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1233-1247, for example selected from the group consisting of SEQ ID NO:1236, 1237 and 1242-1247, such as selected from the group consisting of SEQ ID NO:1236, 1244 and 1247 or the group consisting of SEQ ID NO:1237, 1244 and 1247. In an even more specific embodiment, the "Z-A-Z" polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1244 and 1245. In one embodiment, the "Z-A-Z" polypeptide comprises SEQ ID NO:1244.

In one embodiment, said binding activity is binding to an angiogenesis associated factor. Non-limiting examples of angiogenesis associated factors include fibroblast growth factor (FGF), fibroblast growth factor 1 (FGF-1), basic FGF, angiogenin 1 (Ang-1), angiogenin 2 (Ang-2), angiopoietin 1

(Angpt-1), angiopoietin 2 (Angpt-2), angiopoietin 3 (Angpt-3), angiopoietin 4 (Angpt-4), tyrosine kinase with immunoglobulin-like domains 1 (TIE-1), tyrosine kinase with immunoglobulin-like domains 2 (TIE-2), vascular endothelial growth factor receptor 1 (VEGFR-1), vascular endothelial growth factor receptor 2 (VEGFR-2), vascular endothelial growth factor receptor 3 (VEGFR-3), vascular endothelial growth factor A (VEGF-A), vascular endothelial growth factor B (VEGF-B), vascular endothelial growth factor C (VEGF-C), vascular endothelial growth factor D (VEGF-D), vascular endothelial growth factor E (VEGF-E), placental growth factor (PlGF), transforming growth factor β1 (TGF-β1), transforming growth factor β2 (TGF-β2), transforming growth factor β receptors (type I, type II and type III), matrix metalloproteinase (MMP), MET receptor tyrosine kinase (also denoted cMET and hepatocyte growth factor receptor (HGFR)), members of the Notch family of receptors and beta-catenin.

In one embodiment, said binding activity is binding to an immune response associated factor. Non-limiting examples of immune response associated factors include

- T-cell regulatory factors such as CD3, CD4, CD6, CD28, T-cell receptor α (TCRα), T-cell receptor β (TCRβ), cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), and programmed cell death protein 1 (PD-1), programmed death-ligand 1 (PD-L1), programmed death-ligand 2 (PD-L2), B7 homolog 3 (B7-H3), B7 homolog 4 (B7-H4), herpes virus entry mediator (HVEM)/B- and T-lymphocyte attenuator (BTLA), killer inhibitory receptor (KIR), lymphocyte-activation gene 3 (LAG3), galectin-9 (Gal9)/T cell immunoglobulin mucin-3 (TIM3) and adenosine/alpha-2 adrenergic receptors (A2aR);

- NK-cell recruitment factors such as CD16, natural killer cell lectin-like receptor gene 2D product (NKG2D), lymphocyte function-associated antigen 1 (LFA1) and the natural cytotoxicity receptors NKp30 and NKp40;

- inflammation-associated factors such as

  • cytokines and their receptors, including tumor necrosis factors (TNF); tumor necrosis factor ligand super family (TNFSF) members TNFSF11/RANKL, TNFSF12/TWEAK, TNFSF13, TNFSF13B/BAFF/BLys, TNFSF14, TNFSF15; interleukins (IL) IL-1α, IL-1β, IL-2, IL-5, IL-6, IL-10, IL-12, IL-17B, IL-17C, IL-17D, IL-17E, IL-17F, IL-18, IL-22, IL-23, IL-26, IL-32, IL33 and IL-34; interferons INFα

and INFγ; granulocyte colony-stimulating factor (GCSF), granulocyte colony-stimulating factor (GM-CSF); and

• inflammatory chemokines and their receptors, including IL-8/CXCL8, ENA-78/CXCL5, GROα/CXCL1, CTAP-III/CXCL7, IP-10/CXCL10, Mig/CXCL9, PF4/CXCL4, GCP-2/CXCL6, MCP-1/CCL2, MIP-1α/CCL3, MIP-3α/CCL20, RANTES/CCL5, lymphotactin/XCL1 and fractalkine/CX3CL1.

In particularly selected embodiments, the binding activity of said second moiety is binding to a target selected from the group consisting of TNF, IL-1β, IL-6, IL-17F and IL-23.

In one embodiment of either the first or second aspect of the present disclosure, there is provided an IL-17A binding polypeptide, fusion protein or conjugate which comprises an immune response modifying agent. Non-limiting examples of such immune response modifying agents include immunosuppressive or immunomodulating agents or other anti-inflammatory agents. For example, an IL-17A binding polypeptide, fusion protein or conjugate as described herein may comprise an agent selected from the group consisting of disease-modifying antirheumatic drugs (DMARDs), such as gold salts, azathioprine, methotrexate and leflunomide; calcineurin inhibitors, such as cyclosporin A or FK 506; modulators of lymphocyte recirculation; mTOR inhibitors, such as rapamycin; an ascomycin having immunosuppressive properties; glucocorticoids; corticosteroids; cyclophosphamide; immunosuppressive monoclonal antibodies, for example monoclonal antibodies with affinity for leukocyte receptors such as MHC, CD2, CD3, CD4, CD7, CD8, CD25, CD28, CD40, CD45, CD58, CD80, CD86 or their ligands; adhesion molecule inhibitors, such as LFA-1 antagonists, ICAM-1 or -3 antagonists, VCAM-4 antagonists or VLA-4 antagonists; anti-TNF agents, such as etanercept and monoclonal antibodies to TNF such as infliximab and adalimumab; inhibitors of proinflammatory cytokines; IL-1 blockers such as anakinra or IL-1 trap; IL-6 blockers; chemokine inhibitors; non-steroidal anti-inflammatory drugs (NSAIDs) such as aspirin; and anti-infectious agents and other immune response modulating agents; as well as combinations of any two or more of the above.

In one embodiment of either the first or second aspect of the present disclosure, there is provided an IL-17A binding polypeptide, fusion protein or

conjugate which comprises a toxic compound. Non-limiting examples of such toxic compounds include calicheamicin, maytansinoid, neocarzinostatin, esperamicin, dynemicin, kedarcidin, maduropeptin, doxorubicin, daunorubicin, auristatin, ricin-A chain, modeccin, truncated *Pseudomonas* exotoxin A, diphtheria toxin and recombinant gelonin.

Recently, considerable progress has been made in the development of multispecific agents, such as antibodies with the ability to bind to more than one antigen, for example through engineering of the complementarity determining regions (CDRs) to address two antigens in a single antibody combining site (Bostrom *et al*, 2009, Science 323(5921):1610-1614; Schaefer *et al*, 2011, Cancer Cell 20(4):472-486), via construction of heterodimeric antibodies using engineered Fc units (Carter, 2001, J Immunol Methods 248(1-2):7-15; Schaefer *et al*, 2011, Proc Natl Acad Sci USA 108(27):11187-11192) and via genetic fusion of auxiliary recognition units to N- or C-termini of light or heavy chains of full-length antibodies (Kanakaraj *et al*, 2012, MAbs 4(5):600-613; LaFleur *et al*, 2013, MAbs 5(2):208-218).

As discussed above, it may be beneficial for a polypeptide with affinity for IL-17A as disclosed herein to also exhibit affinity for another factor, such as an immune response associated factor, for example an inflammation-associated factor.

Thus, in a third aspect of the present disclosure, there is provided a complex comprising at least one IL-17A binding polypeptide as defined herein and at least one antibody or an antigen binding fragment thereof.

When used herein to denote the third aspect of the disclosure, the term “complex” is intended to refer to two or more associated polypeptide chains, one having an affinity for IL-17A by virtue of its IL-17A binding motif as defined above, and the other being an antibody or an antigen binding fragment thereof. These polypeptide chains may each contain different protein domains, as described amply above for the IL-17A binding polypeptide of the first and second aspects, and the resulting multiprotein complex can have multiple functions. “Complex” intends to refer to two or more polypeptides as defined herein, connected by covalent bonds, for example two or more polypeptide chains connected by covalent bonds through expression thereof as a recombinant fusion protein, or associated by chemical conjugation.

The third aspect provides a complex comprising an antibody or an antigen binding fragment thereof. As is well known, antibodies are immunoglobulin molecules capable of specific binding to a target (an antigen), such as a carbohydrate, polynucleotide, lipid, polypeptide or other, through at least one antigen recognition site located in the variable region of the immunoglobulin molecule. As used herein, the term "antibody or an antigen binding fragment thereof" encompasses not only full-length or intact polyclonal or monoclonal antibodies, but also antigen-binding fragments thereof, such as Fab, Fab', $F(ab')_2$, Fab_3, Fv and variants thereof, fusion proteins comprising one or more antibody portions, humanized antibodies, chimeric antibodies, minibodies, diabodies, triabodies, tetrabodies, linear antibodies, single chain antibodies, multispecific antibodies (e.g. bispecific antibodies) and any other modified configuration of the immunoglobulin molecule that comprises an antigen recognition site of the required specificity, including glycosylation variants of antibodies, amino acid sequence variants of antibodies and covalently modified antibodies. Further examples of modified antibodies and antigen binding fragments thereof include nanobodies, AlbudAbs, DARTs (dual affinity re-targeting), BiTEs (bispecific T-cell engager), TandAbs (tandem diabodies), DAFs (dual acting Fab), two-in-one antibodies, SMIPs (small modular immunopharmaceuticals), FynomAbs (fynomers fused to antibodies), DVD-Igs (dual variable domain immunoglobulin), CovX-bodies (peptide modified antibodies), duobodies and triomAbs. This listing of variants of antibodies and antigen binding fragments thereof is not to be seen as limiting, and the skilled person is aware of other suitable variants.

A full-length antibody comprises two heavy chains and two light chains. Each heavy chain contains a heavy chain variable region (V_H) and first, second and third constant regions (C_H1, C_H2 and C_H3). Each light chain contains a light chain variable region (V_L) and a light chain constant region (C_L). Depending on the amino acid sequence of the constant domain of its heavy chains, antibodies are assigned to different classes. There are six major classes of antibodies: IgA, IgD, IgE, IgG, IgM and IgY, and several of these may be further divided into subclasses (isotypes), e.g., IgG1, IgG2, IgG3, IgG4, IgA1 and IgA2. The term "full-length antibody" as used herein refers to an antibody of any class, such as IgD, IgE, IgG, IgA, IgM or IgY (or any sub-class thereof). The subunit structures and three-dimensional configurations of different classes of antibodies are well known.

An “antigen binding fragment” is a portion or region of an antibody molecule, or a derivative thereof, that retains all or a significant part of the antigen binding of the corresponding full-length antibody. An antigen binding fragment may comprise the heavy chain variable region (V_H), the light chain variable region (V_L), or both. Each of the V_H and V_L typically contains three complementarity determining regions CDR1, CDR2 and CDR3. The three CDRs in V_H or V_L are flanked by framework regions (FR1, FR2, FR3 and FR4). As briefly listed above, examples of antigen binding fragments include, but are not limited to: (1) a Fab fragment, which is a monovalent fragment having a V_L-C_L chain and a V_H-C_H1 chain; (2) a Fab’ fragment, which is a Fab fragment with the heavy chain hinge region, (3) a $F(ab')_2$ fragment, which is a dimer of Fab’ fragments joined by the heavy chain hinge region, for example linked by a disulfide bridge at the hinge region; (4) an Fc fragment; (5) an Fv fragment, which is the minimum antibody fragment having the V_L and V_H domains of a single arm of an antibody; (6) a single chain Fv (scFv) fragment, which is a single polypeptide chain in which the V_H and V_L domains of an scFv are linked by a peptide linker; (7) an $(scFv)_2$, which comprises two V_H domains and two V_L domains, which are associated through the two V_H domains via disulfide bridges and (8) domain antibodies, which can be antibody single variable domain (V_H or V_L) polypeptides that specifically bind antigens.

Antigen binding fragments can be prepared via routine methods. For example, $F(ab')_2$ fragments can be produced by pepsin digestion of a full-length antibody molecule, and Fab fragments can be generated by reducing the disulfide bridges of $F(ab')_2$ fragments. Alternatively, fragments can be prepared via recombinant technology by expressing the heavy and light chain fragments in suitable host cells (e.g., *E. coli*, yeast, mammalian, plant or insect cells) and having them assembled to form the desired antigen-binding fragments either *in vivo* or *in vitro*. A single-chain antibody can be prepared via recombinant technology by linking a nucleotide sequence coding for a heavy chain variable region and a nucleotide sequence coding for a light chain variable region. For example, a flexible linker may be incorporated between the two variable regions. The skilled person is aware of methods for the preparation of both full-length antibodies and antigen binding fragments thereof.

Thus, in one embodiment, this aspect of the disclosure provides a complex as defined herein, wherein said at least one antibody or antigen

binding fragment thereof is selected from the group consisting of full-length antibodies, Fab fragments, Fab' fragments, $F(ab')_2$ fragments, Fc fragments, Fv fragments, single chain Fv fragments, $(scFv)_2$ and domain antibodies. In one embodiment, said at least one antibody or antigen binding fragment thereof is selected from full-length antibodies, Fab fragments and scFv fragments. In one particular embodiment, said at least one antibody or antigen binding fragment thereof is a full-length antibody.

In one embodiment of said complex as defined herein, the antibody or antigen binding fragment thereof is selected from the group consisting of monoclonal antibodies, human antibodies, humanized antibodies, chimeric antibodies, and antigen-binding fragments thereof.

The term "monoclonal antibodies" as used herein refers to antibodies having monovalent affinity, meaning that each antibody molecule in a sample of the monoclonal antibody binds to the same epitope on the antigen, whereas the term "polyclonal antibodies" as used herein refers to a collection of antibodies that react against a specific antigen, but in which collection there may be different antibody molecules for example identifying different epitopes on the antigen. Polyclonal antibodies are typically produced by inoculation of a suitable mammal and are purified from the mammal's serum. Monoclonal antibodies are made by identical immune cells that are clones of a unique parent cell (for example a hybridoma cell line). The term "human antibody" as used herein refers to antibodies having variable and constant regions corresponding substantially to, or derived from, antibodies obtained from human subjects. The term "chimeric antibodies" as used herein, refers to recombinant or genetically engineered antibodies, such as for example mouse monoclonal antibodies, which contain polypeptides or domains from a different species, for example human, introduced to reduce the antibodies' immunogenicity. The term "humanized antibodies" refers to antibodies from non-human species whose protein sequences have been modified to increase their similarity to antibody variants produced naturally in humans, in order to reduce immunogenicity.

It may be beneficial for a complex as defined herein to, in addition to being capable of binding IL-17A, target at least one additional antigen, such as an antigen selected from the group consisting of an antigen associated with an angiogenesis related disorder and an antigen associated with the immune response. In one embodiment, said additional antigen is associated

with angiogenesis. In one embodiment, said additional antigen is associated with the immune response.

In one embodiment, the antigen is associated with angiogenesis and is selected from the group consisting of fibroblast growth factor (FGF), fibroblast growth factor 1 (FGF-1), basic FGF, angiogenin 1 (Ang-1), angiogenin 2 (Ang-2), angiopoietin 1 (Angpt-1), angiopoietin 2 (Angpt-2), angiopoietin 3 (Angpt-3), angiopoietin 4 (Angpt-4), tyrosine kinase with immunoglobulin-like domains 1 (TIE-1), tyrosine kinase with immunoglobulin-like domains 2 (TIE-2), vascular endothelial growth factor receptor 1 (VEGFR-1), vascular endothelial growth factor receptor 2 (VEGFR-2), vascular endothelial growth factor receptor 3 (VEGFR-3), vascular endothelial growth factor A (VEGF-A), vascular endothelial growth factor B (VEGF-B), vascular endothelial growth factor C (VEGF-C), vascular endothelial growth factor D (VEGF-D), vascular endothelial growth factor E (VEGF-E), placental growth factor (PlGF), transforming growth factor β1 (TGF-β1), transforming growth factor β2 (TGF-β2), transforming growth factor β receptors (type I, type II and type III), matrix metalloproteinase (MMP), MET receptor tyrosine kinase (also denoted cMET and hepatocyte growth factor receptor (HGFR)), members of the Notch family of receptors and beta-catenin. In one embodiment, said antibody or fragment thereof is selected from the group consisting of AMG 780, AMG 386, MEDI-3617, nesvacumab, CVX-241, bevacizumab, ranibizumab, VGX100, CVX-241, ABP 215, PF-06439535, fresolimumab, metelimumab, onartuzumab, emibetuzumab and tarextumab.

In one embodiment, the antigen is associated with the immune response or a disorder of the immune system, and is selected from the group consisting of

- T-cell regulatory factors such as CD3, CD4, CD6, CD28, T-cell receptor α (TCRα), T-cell receptor β (TCRβ), cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), and programmed cell death protein 1 (PD-1), programmed death-ligand 1 (PD-L1), programmed death-ligand 2 (PD-L2), B7 homolog 3 (B7-H3), B7 homolog 4 (B7-H4), herpes virus entry mediator (HVEM)/B- and T-lymphocyte attenuator (BTLA), killer inhibitory receptor (KIR), lymphocyte-activation gene 3 (LAG3), galectin-9 (Gal9)/T cell immunoglobulin mucin-3 (TIM3) and adenosine/alpha-2 adrenergic receptors (A2aR);

- NK-cell recruitment factors such as CD16, natural killer cell lectin-like receptor gene 2D product (NKG2D), lymphocyte function-associated antigen 1 (LFA1) and the natural cytotoxicity receptors NKp30 and NKp40;
- inflammation-associated factors such as
  - cytokines and their receptors, including tumor necrosis factors (TNF); tumor necrosis factor ligand super family (TNFSF) members TNFSF11/RANKL, TNFSF12/TWEAK, TNFSF13, TNFSF13B/BAFF/BLys, TNFSF14, TNFSF15; interleukins (IL) IL-1α, IL-1β, IL-2, IL-5, IL-6, IL-10, IL-12, IL-17B, IL-17C, IL-17D, IL-17E, IL-17F, IL-18, IL-22, IL-23, IL-26, IL-32, IL33 and IL-34; interferons INFα and INFγ; granulocyte colony-stimulating factor (GCSF), granulocyte colony-stimulating factor (GM-CSF); and
  - inflammatory chemokines and their receptors, including IL-8/CXCL8, ENA-78/CXCL5, GROα/CXCL1, CTAP-III/CXCL7, IP-10/CXCL10, Mig/CXCL9, PF4/CXCL4, GCP-2/CXCL6, MCP-1/CCL2, MIP-1α/CCL3, MIP-3α/CCL20, RANTES/CCL5, lymphotactin/XCL1 and fractalkine/CX3CL1.

In one embodiment, the antigen is selected from the group consisting of TNF, IL-1β, IL-6, IL-17F and IL-23.

In one embodiment, said antibody or fragment thereof is selected from the group consisting of visilizumab, otelixizumab, ipilimumab, tremelimumab, pembrolizumab, nivolumab, pidilizumab, MPDL3280A, MEDI-4736, MPDL3280A and lirilumab, and antigen-binding fragments thereof.

In one particular embodiment, said antigen is TNF. In one embodiment, said antibody or fragment thereof is selected from the group consisting of adalimumab, infliximab, golimumab, certolimumab pegol, and antigen binding fragments thereof. In another embodiment said antibody or fragment thereof is a full-length antibody selected from the group consisting of adalimumab, infliximab, golimumab and certolimumab pegol. In one particular embodiment, said antibody or antigen binding fragment thereof is adalimumab or an antigen binding fragment thereof, for example full-length adalimumab.

The complex as described herein may for example be present in the form of a fusion protein or a conjugate. Thus, said at least one IL-17A binding polypeptide and said at least one antibody, or antigen binding fragment thereof, may be coupled by means of chemical conjugation (using known

organic chemistry methods) or by any other means, such as expression of the complex as a fusion protein or joined in any other fashion, either directly or via a linker, for example an amino acid linker.

Thus, in one embodiment, there is provided a complex as defined herein, wherein said complex is a fusion protein or a conjugate. In one embodiment, said complex is a fusion protein. In another embodiment, said complex is a conjugate. In one embodiment of said complex, said IL-17A binding polypeptide is attached to the N-terminus or C-terminus of the heavy chain of said antibody or antigen binding fragment thereof. In another embodiment, said IL-17A binding polypeptide is attached to the N-terminus or C-terminus of the light chain of said antibody or antigen binding fragment thereof. In one embodiment, said IL-17A binding polypeptide is attached to the N-terminus and/or C-terminus of the light chain and heavy chain of said antibody or antigen binding fragment thereof. For example, the IL-17A binding polypeptide may be attached to only the N-terminus of the heavy chain(s), only the N-terminus of the light chain(s), only the C-terminus of the heavy chain(s), only the C-terminus of the light chain(s), both the N-terminus and the C-terminus of the heavy chain(s), both the N-terminus and the C-terminus of the light chain(s), only the C-terminus of the light chain(s) and the N-terminus of the heavy chain(s), only the C-terminus of the heavy chain(s) and the N-terminus of the light chain(s), of said antibody or antigen binding fragment thereof.

As the skilled person understands, the construction of a fusion protein often involves use of linkers between functional moieties to be fused. The skilled person is aware of different kinds of linkers with different properties, such as flexible amino acid linkers, rigid amino acid linkers and cleavable amino acid linkers. Linkers have been used to for example increase stability or improve folding of fusion proteins, to increase expression, improve biological activity, affinity and/or binding, enable targeting and alter pharmacokinetics of fusion proteins. Thus, in one embodiment, the IL-17A binding polypeptide, fusion protein, conjugate or complex as defined herein further comprises at least one linker. The linker may for example be selected from the group consisting of flexible amino acid linkers, rigid amino acid linkers and cleavable amino acid linkers. Alternatively, the linker may be a non-peptidic linker. In one embodiment of a fusion protein or conjugate as disclosed herein, said linker is arranged between a first moiety consisting of

an IL-17A binding polypeptide as defined herein and a second moiety consisting of a polypeptide having a desired biological activity. In one embodiment of a complex as disclosed herein, said linker is arranged between said IL-17A binding polypeptide and said antibody or antigen binding fragment thereof. The skilled person will appreciate that the presence of linker arranged in any of above mentioned contexts does not exclude the presence of additional linkers in the same or any other context.

Flexible linkers are often used when the joined domains require a certain degree of movement or interaction, and may be particularly useful in some embodiments of the IL-17A binding polypeptide, fusion protein, conjugate or complex as defined herein. Such linkers are generally composed of small, non-polar (for example G) or polar (for example S or T) amino acids. Some flexible linkers primarily consist of stretches of G and S residues, for example $(GGGGS)_p$ and $(SSSSG)_p$. Adjusting the copy number "p" allows for optimization of the linker in order to achieve appropriate separation between the functional moieties or to maintain necessary inter-moiety interaction. Apart from G and S linkers, other flexible linkers are known in the art, such as G and S linkers containing additional amino acid residues, such as T, A, K and E, to maintain flexibility, as well as polar amino acid residues to improve solubility.

In one embodiment, said linker is a flexible linker comprising glycine (G), serine (S) and/or threonine (T) residues. In one embodiment, said linker comprises a sequence with a general formula selected from $(G_nS_m)_p$ and $(S_nG_m)_p$, wherein, independently, n = 1-7, m = 0-7, $n + m \leq 8$ and p = 1-10. In one embodiment, n = 1-5. In one embodiment, m = 0-5. In one embodiment, p = 1-5. In a more specific embodiment, n = 4, m = 1 and p = 1-4.

In one embodiment, said linker comprises a sequence selected from the group consisting of G_4S, $(G_4S)_2$, $(G_4S)_3$ and $(G_4S)_4$.

In one embodiment, said linker comprises a sequence with the general formula $GT(G_nS_m)_p$, wherein, independently, n = 1-7, m = 0-7, $n + m \leq 8$ and p = 1-10. In one embodiment, n = 1-5. In one embodiment, m = 0-5. In one embodiment, p = 1-5. In a more specific embodiment, n = 4, m = 1 and p = 1-4. Thus, in one embodiment wherein n = 4, said linker comprises $GT(G_4S)_p$. In one specific embodiment, n = 4 and p = 1, so that said linker comprises GTG_4S. In one embodiment, said linker comprises a sequence selected from the group consisting of $GT(G_4S)_pTS$, $GT(G_4S)_pPR$ and $GT(G_4S)_pPK$.

In one embodiment, said linker comprises a sequence with the general formula $GAP(G_nS_m)_p$, wherein, independently, n = 1-7, m = 0-7, n + m ≤ 8 and p = 1-10. In one embodiment, n = 1-5. In one embodiment, m = 0-5. In one embodiment, p = 1-5. In a more specific embodiment, n = 4, m = 1 and p = 1-4. Thus, in one embodiment wherein n = 4, said linker comprises $GAP(G_4S)_p$. In one specific embodiment, n = 4 and p = 1, so that said linker comprises $GAPG_4S$. In one embodiment, said linker comprises a sequence selected from the group consisting of $GAP(G_4S)_pTS$, $GAP(G_4S)_pPR$ and $GAP(G_4S)_pPK$.

In one embodiment, said linker comprises a sequence selected from the group consisting of $KL(G_4S)_p$, $LQ(G_4S)_p$ and $YV(G_4S)_pPK$. In one embodiment, said linker comprises a sequence selected from the group consisting of S_4G, $(S_4G)_3$, $(S_4G)_4$ and $(S_4G)_8$. In one embodiment, said linker comprises a sequence selected from the group consisting of VDGS, ASGS and VEGS. In a specific embodiment, said linker comprises ASGS.

With regard to the description above of fusion proteins, conjugates or complexes incorporating an IL-17A binding polypeptide according to the disclosure, it is to be noted that the designation of first, second and further moieties is made for clarity reasons to distinguish between IL-17A binding polypeptide or polypeptides according to the invention on the one hand, and moieties exhibiting other functions on the other hand. These designations are not intended to refer to the actual order of the different domains in the polypeptide chain of the fusion protein, conjugate or complex. Thus, for example, said first moiety may without restriction appear at the N-terminal end, in the middle, or at the C-terminal end of the fusion protein, conjugate or complex.

The disclosure furthermore encompasses polypeptides in which the IL-17A binding polypeptide according to the first aspect, the IL-17A binding polypeptide as comprised in a fusion protein or conjugate according to the second aspect or in a complex according to the third aspect, further comprises a label, such as a label selected from the group consisting of fluorescent dyes and metals, chromophoric dyes, chemiluminescent compounds and bioluminescent proteins, enzymes, radionuclides and particles. Such labels may for example be used for detection of the polypeptide.

In embodiments where the labeled IL-17A binding polypeptide comprises an IL-17A binding polypeptide according to the first aspect of the disclosure and a label, this labeled polypeptide may be used for indirect labeling of IL-17A expressing cells, such as cells of inflammation-associated cancers. Non-limiting examples of inflammation-associated cancers include gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas (Wu et al., 2014 Tumour Biol. 35(6):5347-56; Wu et al., 2012 PLoS One 7(12); Zhang et al. 2012 Asian Pac J Cancer Prev 13(8):3955-60; Liu et al., 2011 Biochem Biophys Res Commun.407(2):348-54).

In other embodiments, the labeled IL-17A binding polypeptide is present as a moiety in a fusion protein, conjugate or complex also comprising a second and possible further moiety having a desired biological activity. The label may in some instances be coupled only to the IL-17A binding polypeptide, and in some instances both to the IL-17A binding polypeptide and to the second moiety of the fusion protein or conjugate and/or the antibody or antigen binding fragment of the complex. Furthermore, it is also possible that the label may be coupled to a second moiety, or antibody or antigen binding fragment thereof only and not to the IL-17A binding moiety. Hence, in yet another embodiment, there is provided an IL-17A binding polypeptide comprising a second moiety, wherein said label is coupled to the second moiety only. In another embodiment, there is provided a complex as defined herein, wherein said label is coupled to the antibody or antigen binding fragment thereof only.

In one embodiment, said IL-17A binding polypeptide, fusion protein, conjugate or complex as described herein comprises a chelating environment provided by a polyaminopolycarboxylate chelator conjugated to the IL-17A binding polypeptide via a thiol group of a cysteine residue or an amine group of a lysine residue.

In embodiments where the IL-17A binding polypeptide, fusion protein, conjugate or complex is radiolabeled, such a radiolabeled polypeptide may comprise a radionuclide. A majority of radionuclides have a metallic nature and metals are typically incapable of forming stable covalent bonds with elements presented in proteins and peptides. For this reason, labeling of proteins and peptides with radioactive metals is performed with the use of chelators, i.e. multidentate ligands, which form non-covalent compounds,

called chelates, with the metal ions. In an embodiment of the IL-17A binding polypeptide, fusion protein, conjugate or complex, the incorporation of a radionuclide is enabled through the provision of a chelating environment, through which the radionuclide may be coordinated, chelated or complexed to the polypeptide.

One example of a chelator is the polyaminopolycarboxylate type of chelator. Two classes of such polyaminopolycarboxylate chelators can be distinguished: macrocyclic and acyclic chelators.

In one embodiment, the IL-17A binding polypeptide, fusion protein or conjugate comprises a chelating environment provided by a polyaminopolycarboxylate chelator conjugated to the IL-17A binding polypeptide via a thiol group of a cysteine residue or an epsilon amine group of a lysine residue.

The most commonly used macrocyclic chelators for radioisotopes of indium, gallium, yttrium, bismuth, radioactinides and radiolanthanides are different derivatives of DOTA (1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid). In one embodiment, a chelating environment of the IL-17A polypeptide, fusion protein, conjugate or complex is provided by DOTA or a derivative thereof. More specifically, in one embodiment, the chelating polypeptides encompassed by the present disclosure are obtained by reacting the DOTA derivative 1,4,7,10-tetraazacyclododecane-1,4,7-tris-acetic acid-10-maleimidoethylacetamide (maleimidomonoamide-DOTA) with said polypeptide.

Additionally, 1,4,7-triazacyclononane-1,4,7-triacetic acid (NOTA) and derivatives thereof may be used as chelators. Hence, in one embodiment, there is provided an IL-17A binding polypeptide, fusion protein, conjugate or complex, wherein the the polyaminopolycarboxylate chelator is 1,4,7-triazacyclononane-1,4,7-triacetic acid or a derivative thereof.

The most commonly used acyclic polyaminopolycarboxylate chelators are different derivatives of DTPA (diethylenetriamine-pentaacetic acid). Hence, polypeptides having a chelating environment provided by diethylenetriaminepentaacetic acid or derivatives thereof are also encompassed by the present disclosure.

In one embodiment, said IL-17A binding polypeptide, fusion protein, conjugate or complex as described herein further comprises one or more

polyethylene glycol (PEG) moieties, e.g. in order to improve pharmacokinetic properties of the molecule.

In a fourth aspect of the present disclosure, there is provided a polynucleotide encoding an IL-17A binding polypeptide or a fusion protein as described herein; an expression vector comprising said polynucleotide; and a host cell comprising said expression vector.

Also encompassed by this disclosure is a method of producing a polypeptide or fusion protein as described above, comprising culturing said host cell under conditions permissive of expression of said polypeptide from its expression vector, and isolating the polypeptide.

The IL-17A binding polypeptide of the present disclosure may alternatively be produced by non-biological peptide synthesis using amino acids and/or amino acid derivatives having protected reactive side-chains, the non-biological peptide synthesis comprising

- step-wise coupling of the amino acids and/or the amino acid derivatives to form a polypeptide according to the first aspect having protected reactive side-chains,
- removal of the protecting groups from the reactive side-chains of the polypeptide, and
- folding of the polypeptide in aqueous solution.

It should be understood that the IL-17A binding polypeptide according to the present disclosure may be useful as a therapeutic, diagnostic or prognostic agent in its own right or as a means for targeting other therapeutic or diagnostic agents, with e.g. direct or indirect effects on IL-17A. A direct therapeutic effect may for example be accomplished by inhibiting IL-17A signaling, such as by blocking IL-17A from binding to one or more of its receptors.

In another aspect, there is provided a composition comprising an IL-17A binding polypeptide, fusion protein, conjugate or complex as described herein and at least one pharmaceutically acceptable excipient or carrier. In one embodiment, said composition further comprises at least one additional active agent, such as at least two additional active agents, such as at least three additional active agents. Non-limiting examples of additional active agents that may prove useful in such a composition are the therapeutically

active polypeptides, immune response modifying agents and toxic compounds described herein.

The skilled person will appreciate that said IL-17A binding polypeptide, fusion protein, conjugate or complex, or a pharmaceutical composition comprising an anti-IL-17A binding polypetide, fusion protein, conjugate or complex as described herein may be administered to a subject using standard administration techniques, such as including oral, topical, intravenous, intraperitoneal, subcutaneous, pulmonary, transdermal, intramuscular, intranasal, buccal, sublingual or suppository administration. Thus, in one embodiment there is provided an IL-17A binding polypeptide, fusion protein, conjugate or complex or a pharmaceutical composition as described herein for oral, topical, intravenous, intraperitoneal, subcutaneous, pulmonary, transdermal, intramuscular, intranasal, buccal, sublingual or suppository administration. In one particular embodiment there is provided an IL-17A binding polypeptide, fusion protein, conjugate or complex or a pharmaceutical composition as described herein for oral administration. In another particular embodiment there is provided an IL-17A binding polypeptide, fusion protein, conjugate or complex or a pharmaceutical composition as described herein for topical administration, such as topical administration to the eye.

IL-17A may also serve as a valuable marker to for diagnosis and prognosis of certain cancers, such as inflammation-associated cancers for example gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas. For example, IL-17 has been linked to the prognosis and poor survival in patients suffering from colorectal carcinoma and hepatocellular carcinoma.

Hence, in another aspect of the present disclosure, there is provided an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein for use as a medicament, a diagnostic agent or a prognostic agent.

In one embodiment, there is provided an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein, for use as a medicament to modulate IL-17A function *in vivo*. As used herein, the term “modulate” refers to changing the activity, such as rendering IL-17A function hypomorph, partially inhibiting or fully inhibiting IL-17A function.

Non-limiting examples of IL-17A associated conditions or diseases, wherein the IL-17A binding polypeptides may be useful for treatment, prognosis and/or diagnosis of include arthritis, such as rheumatoid arthritis, arthritis chronica progrediente, arthritis deformans and rheumatic diseases, diseases involving bone loss, inflammatory pain, spondyloarhropathies including ankylosing spondylitis, Reiter syndrome, reactive arthritis, psoriatic arthritis, enterophathc arthritis, pauciarticular rheumatoid arthritis, polyarticular rheumatoid arthritis, systemic onset rheumatoid arthritis, osteoarthritis; hypersensitivity conditions, such as hypersensitivity (including both airways hypersensitivity and dermal hypersensitivity), allergies and responses to allergen exposure; gastrointestional conditions or diseases, such as autoimmune inflammatory bowel disease (including e.g. ulcerative colitis, Crohn' s disease and Irritable Bowel Syndrome), celiac disease (idiopathic sprue), intraperitoneal abscesses and adhesions, primary biliary sclerosis, sclerosing cholangitis, autoimmune hepatitis, viral hepatitis, chronic active hepatitis and *Helicobacter pylori* associated gastritis; ophthalmic conditions and diseases, such as endocrine ophthalmopathy, Graves disease, uveitis (anterior and posterior), keratoconjunctivitis sicca (dry eye disease), vernal keratoconjunctivitis, herpetic stromal keratitis and dry eye disease; nephrological conditions and disease, such as glomerulonephritis (with and without nephrotic syndrome, e.g. including idiopathic nephrotic syndrome or minimal change nephropathy); acute conditions and disease, such as acute and hyperacute inflammatory reactions, septic shock (e.g., endotoxic shock and adult respiratory distress syndrome), meningitis, pneumonia, severe burns, acute infections, septicemia, stroke and ischemia; cachexia (wasting syndrome), such as cachexia associated with morbid TNF release, cachexia consequent to infection, cachexia associated with cancer, cachexia associated with organ dysfunction and AIDS-related cachexia; bone related conditions and diseases, such as diseases of bone metabolism including osteoarthritis, osteoporosis, inflammatory arthritides, bone loss such as age-related bone loss, periodontal disease, loosening of bone implants and bone erosion; juvenile conditions and diseases, such as juvenile rheumatoid arthritis, pauciarticular juvenile rheumatoid arthritis, polyarticular juvenile rheumatoid arthritis, systemic onset juvenile rheumatoid arthritis, juvenile ankylosing spondylitis, juvenile enteropathic arthritis, juvenile reactive arthritis, juvenile Reiter's Syndrome, SEA Syndrome (Seronegativity, Enthesopathy, Arthropathy Syndrome), juvenile dermatomyositis, juvenile

psoriatic arthritis, juvenile scleroderma, juvenile systemic lupus erythematosus and juvenile vasculitis; vasculitis including vasculitis of large vessels, such as Polymyalgia rheumatica, Takayasu's arteritis and Temporal arteritis, vasculitis of medium vessels, such as Buerger's disease, Cutaneous vasculitis, Kawasaki disease and Polyarteritis nodosa, vasculitis of small vessels, such as Behçet's syndrome, Churg–Strauss syndrome, cutaneous vasculitis, Henoch–Schönlein purpura, microscopic polyangiitis, Wegener's granulomatosis and Golfer's vasculitis, vasculitis of variable vessels and arteritis; dermatological conditions or diseases, such as psoriasis, plaque psoriasis, guttate psoriasis, inverse psoriasis, pustular psoriasis, erythrodermic psoriasis, dermatitis and atopic dermatitis; pulmonary conditions and diseases, such as obstructive or inflammatory airways diseases, asthma, bronchitis, COPD, pneumoconiosis, pulmonary emphysema, acute and hyperacute inflammatory reactions, interstitial lung fibrosis, airway inflammation and bronchial asthma; metabolic conditions and diseases, such as atherosclerosis, dyslipidemia and Type I diabetes mellitus; as well as other systemic autoimmune conditions and diseases, such as systemic lupus erythematosus (SLE), lupus nephritis, polychondritis, myasthenia gravis, Steven-Johnson syndrome, tumors, myositis, dermatomyositis, adult-onset Still's disease, polymyalgia rheumatica, sarcoidosis, scleroderma, sclerosis, systemic sclerosis, Sjogren's syndrome, multiple sclerosis (MS), Guillain-Barre disease, Addison's disease and Raynaud' s phenomenon.

The IL-17A binding polypeptides as disclosed herein may furthermore be useful for the treatment of recipients of heart, lung, combined heart- lung, liver, kidney, pancreatic, skin or corneal transplants, including allograft rejection or xenograft rejection, and for the prevention of graft-versus-host disease, such as following bone marrow transplant, and organ transplant associated arteriosclerosis.

The IL-17A binding polypeptides as disclosed herein may furthermore be useful for the treatment, diagnosis or prognosis of inflammation-associated cancers. The term "cancer" as used herein refers to tumor diseases and/or cancer, such as metastatic or invasive cancers, for example lung cancer, non small cell lung (NSCL) cancer, bronchioloalviolar cell lung cancer, bone cancer, pancreatic cancer, skin cancer, cancer of the head or neck, cutaneous or intraocular melanoma, rectal cancer, cancer of the anal region, stomach cancer, gastric cancer, colon cancer, colorectal cancer, cancer of

the small intestines, esophageal cancer, liver cancer, pancreas cancer, breast cancer, ovarian cancer, uterine cancer, carcinoma of the fallopian tubes, carcinoma of the endometrium, carcinoma of the cervix, carcinoma of the vagina, carcinoma of the vulva, Hodgkin's Disease, cancer of the endocrine system, cancer of the thyroid gland, cancer of the parathyroid gland, cancer of the adrenal gland, sarcoma of soft tissue, cancer of the urethra, cancer of the penis, prostate cancer, bladder cancer, cancer of the kidney or ureter, renal cell carcinoma, carcinoma of the renal pelvis, mesothelioma, hepatocellular carcinoma, biliary cancer, neoplasms of the central nervous system (CNS), spinal axis tumors, brain stem glioma, glioblastoma multiforme, astrocytomas, schwanomas, ependymonas, medulloblastomas, meningiomas, squamous cell carcinomas, pituitary adenoma, adenocarcinomas, lymphoma, lymphocytic leukemia, or cancer of unknown origin, or other hyperplastic or neoplastic IL-17A associated condition, including refractory versions of any of the above cancers or a combination of one or more of the above cancers or hyperproliferative diseases.

Non-limiting examples of inflammation-associated cancers include gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas.

In one embodiment, there is provided an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use in the treatment, diagnosis or prognosis of an IL-17A associated condition, such as a condition selected from the group consisting of inflammatory diseases, autoimmune diseases and cancer, such as inflammatory diseases and autoimmune diseases. In one embodiment, said condition is selected from the group consisting of inflammatory conditions, allergic conditions, hypersensitivity reactions, autoimmune diseases, severe infections and transplant rejections.

In one particular embodiment, said IL-17A associated condition is selected from the group consisting of rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, psoriasis, multiple sclerosis, systemic lupus erythematosus, uveitis and dry eye disease.

In an even more particular embodiment, said IL-17A associated condition is psoriasis.

In another embodiment, said IL-17A associated condition is an inflammation-associated cancer, such as a cancer selected from the group

consisting of gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas.

In a related aspect, there is provided a method of detecting IL-17A, comprising providing a sample suspected to contain IL-17A, contacting said sample with an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein, and detecting the binding of the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition to indicate the presence of IL-17A in the sample. In one embodiment, said method further comprises an intermediate washing step for removing non-bound polypeptide, fusion protein, conjugate, complex or composition, after contacting the sample.

In one embodiment, said method is a diagnostic or prognostic method, for determining the presence of IL-17A in a subject, the method comprising the steps:

- contacting the subject, or a sample isolated from the subject, with an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein, and
- obtaining a value corresponding to the amount of the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition that has bound in said subject or to said sample.

In one embodiment, said method further comprises an intermediate washing step for removing non-bound polypeptide, fusion protein, conjugate, complex or composition, after contacting the subject or sample and before obtaining a value.

In one embodiment, said method further comprises a step of comparing said value to a reference. Said reference may be scored by a numerical value, a threshold or a visual indicator, for example based on a color reaction. The skilled person will appreciate that different ways of comparison to a reference are known in the art may be suitable for use.

In one embodiment of such a method, said subject is a mammalian subject, such as a human subject.

In one embodiment, said method is performed *in vivo*.

In one embodiment, said method is performed *in vitro.*

In a related aspect, there is provided a method of treatment of an IL-17A associated condition, comprising administering to a subject in need thereof an effective amount of an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein. In a more specific embodiment of said method, the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein modulates IL-17A function *in vivo*.

In one embodiment, said IL-17A associated condition is selected from the group consisting of inflammatory diseases, autoimmune diseases and cancer, such as a group consisting of inflammatory diseases and autoimmune diseases. In one particular embodiment of said aspect, the IL-17A associated condition is selected from the group consisting of inflammatory conditions, allergic conditions, hypersensitivity reactions, autoimmune diseases, severe infections and transplant rejections. In one embodiment, said IL-17A associated condition is selected from the group consisting of rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, psoriasis, multiple sclerosis, systemic lupus erythematosus, uveitis and dry eye disease. In a more specific embodiment, said IL-17A associated condition is psoriasis. In another embodiment, said IL-17A associated condition is cancer, such as a cancer selected from the group consisting of gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas.

It may be beneficial to administer a therapeutically effective amount of an IL-17A binding polypeptide, fusion protein, conjugate, complex or composition as described herein together with least one second drug substance, such as an immune response modifying agent, toxic compound or an anti-cancer agent.

As used herein, the term “co-adminstration” encompasses concomitant adminstration and adminstration in sequence. Thus, in one embodiment, there is provided a method as defined above, further comprising co-administration of an immune response modulating agent. In another embodiment, there is provided a method as defined above, further comprising co-administration of an additional anti-inflammatory agent. In another embodiment, there is provided a method as defined above, further comprising co-administration of a toxic compound. In another embodiment, there is provided a method as defined above, further comprising co-administration of an anti-cancer agent.

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Non-limiting examples of immune response modulating agents and toxic compounds are given above. Non-limiting examples of anti-cancer agents include agents selected from the group consisting of auristatin, anthracycline, calicheamycin, combretastatin, doxorubicin, duocarmycin, the CC-1065 anti-tumorantibiotic, ecteinsascidin, geldanamycin, maytansinoid, methotrexate, mycotoxin, taxol, ricin, bouganin, gelonin, pseudomonas exotoxin 38 (PE38), diphtheria toxin (DT), and their analogues, and derivates thereof and combinations thereof. A skilled person would appreciate that the non-limiting examples of cytotoxic agents include all possible variant of said agents, for example the agent auristatin includes for example auristatin E, auristatin F, auristatin PE, and derivates thereof.

Throughout the description and claims of the specification, the word "comprise" and variations of the word, such as "comprising" and "comprises", is not intended to exclude other additives, components, integers or steps.

A reference herein to a patent document or other matter which is given as prior art is not to be taken as admission that the document or matter was known or that the information it contains was part of the common general knowledge as at the priority date of any of the claims.

While the invention has been described with reference to various exemplary aspects and embodiments, it will be understood by those skilled in the art that various changes may be made and equivalents may be substituted for elements thereof without departing from the scope of the invention. In addition, many modifications may be made to adapt a particular situation or molecule to the teachings of the invention without departing from the essential scope thereof. Therefore, it is intended that the invention not be limited to any particular embodiment contemplated, but that the invention will include all embodiments falling within the scope of the appended claims.

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Brief description of the figures

Figure 1 is a listing of the amino acid sequences of examples of IL-17A binding polypeptides of the present disclosure (SEQ ID NO:1-1222), a control polypeptide (SEQ ID NO:1223), the albumin binding polypeptides PP013 (SEQ ID NO:1224) and PEP07843 (SEQ ID NO:1225) as well as the amino acid sequences of human IL-17A (SEQ ID NO:1226), murine IL-17A (SEQ ID NO:1227), cynomolgus monkey IL-17A (SEQ ID NO:1229), rhesus monkey IL-17A (SEQ ID NO:1230) and human IL-17F (SEQ ID NO:1228) used for selection, screening and/or characterization for illustration of the invention. In the IL-17A binding polypeptides of the present disclosure, the deduced IL-17A binding motifs (*BMs*) extend from residue 8 to residue 36 in each sequence. The amino acid sequences of the 49 amino acid residues long polypeptides (BMod) predicted to constitute the complete three-helix bundle within each of these Z variants extend from residue 7 to residue 55.

Figure 2 shows inhibition of IL-17A induced IL-6 production assessed by the NHDF assay described in Example 3. (A) His_6-Z06260 (open dimonds), His_6-Z06282 (open squares) and His_6-Z06455 (open circles) were titrated in a medium containing IL-17A. (B) Z06260-ABD (closed diamonds), His_6-Z06282 (open squares), Z06282-ABD (filled squares), His_6-Z06455 (open circles) and Z06455-ABD (filled circles) were titrated in a medium containing IL-17A and HSA.

Figure 3 shows the IL-17A binding capacity of a set of Z variants from the first and second maturation library assayed by ELISA as described in Example 8. The results are displayed as percent binding capacity compared to the IL-17A binding variant Z10241 (SEQ ID NO:11).

Figure 4 shows the result of binding specificity analysis performed in a Biacore instrument as described in Example 8. Sensorgrams were obtained by injection of 20 nM of the His_6-tagged Z variants Z10508 (SEQ ID NO:2) (A), Z10532 (SEQ ID NO:1) (B) and Z15167 (SEQ ID NO:4) (C) over human IL-17A (black), human IL-17A/F (dark grey) and human IL-17F (light grey), respectively, immobilized on the surface of a CM5 chip.

Figure 5 shows inhibition of IL-17A induced IL-6 production for a selection of Z variants originating from the first maturation selection (solid curves) compared to one binder from the primary selection (broken curve) assayed as described in Example 8. All binders inhibited IL-17A in a dose dependent manner and the maturated binders had an increased blocking capacity compared to the primary binder.

Figure 6 shows binding of human IL-17A (grey) and cynomolgus IL-17A (black) to (A) ZAZ3363 (SEQ ID NO:1244), (B) ZAZ3364 (SEQ ID NO:1245) and (C) ZAZ3365 (SEQ ID NO:1246), analyzed in a Biacore instrument as described in Example 11. The resulting curves, from which responses from a blank surface were subtracted, correspond to injections of the respective IL-17A protein at concentrations 2.5, 10 and 40 nM.

Figure 7 shows inhibition of IL-17A induced IL-6 production in the NHDF assay described in Example 14. Figure 7A shows a superior inhibitory efficacy with the dimeric Z-ABD-Z polypeptide ZAZ3220 (SEQ ID NO:1236; solid black line) compared to the corresponding monomeric Z variant Z10241 (SEQ ID NO:11; dotted black line). Figure 7B shows an evaluation of different linker lengths between the Z and the ABD moieties in Z-ABD-Z polypeptides comprising the Z variant Z06282 (SEQ ID NO:1206). The Z-ABD-Z polypeptides ZAZ3174 (SEQ ID NO:1233), ZAZ3176 (SEQ ID NO:1235),

ZAZ3234 (SEQ ID NO:1238), ZAZ3235 (SEQ ID NO:1239), ZAZ3236 (SEQ ID NO:1240) and ZAZ3237 (SEQ ID NO:1241) with various numbers of G_4S repeats, or minimal linkers, on each side of the ABD were compared.

Figure 8 shows dose dependent inhibition by Z-ABD-Z polypeptides in the hIL-17A induced KC-model described in Example 15. (A) Complete inhibition of KC production by ZAZ3174 (SEQ ID NO:1233) was obtained at a dose of 2.5 mg/kg. (B) Complete inhibition of KC production by ZAZ3220 (SEQ ID NO:1236) was obtained at a dose of 0.4 mg/kg. Doses indicated on the x-axis are given in mg/kg and the corresponding pmol dose. The numbers above the bar indicate percent inhibition in each dose group; 72 % inhibition was obtained with 0.1 mg/kg ZAZ3220. LOQ = limit of quantification.

Figure 9 shows the pharmacokinetic profiles of the Z-ABD-Z polypeptides (A) ZAZ3220 (SEQ ID NO:1236) and (B) ZAZ3363 (SEQ ID NO:1244), following a single i.v. (black line) or s.c. (gray broken line) administration to SD rats as described in Example 16. The mean serum concentrations versus time is displayed.

Figure 10 shows the result of topical administration to the eyes of rabbits performed as described in Example 17. Uptake of Z variant Z10199 (SEQ ID NO:1217) and the Z-ABD-Z polypeptide ZAZ3174 (SEQ ID NO:1233) was demonstrated both in aqueous humor and vitreous humor, whereas the control IgG antibody did not penetrate the eye.

Figure 11 shows the activity of ZAZ3363 (SEQ ID NO:1244) formulated in OAF1and OAF2, respectively, in comparison to formulation in PBS, and analyzed in the NHDF assay described in Example 18. A) OAF1 (filled circles), PBS (crosses) and OAF1without ZAZ3363 (open diamonds). B) OAF2 (open triangles), PBS (crosses) and OAF2without ZAZ3363 (open diamonds).

Figure 12 shows the pharmacokinetic profile of intraduodenal administration of ZAZ3363 formulated in OAF1 (filled circles), OAF2 (open triangles) and PBS (crosses) performed as described in Example 18.

Figure 13 shows the evaluation of the complexes HC_{Ada}-Z14253 and LC_{Ada}-Z14253 in the NHDF assay described in Example 19. (A) Schematic of the complexes HC_{Ada}-Z14253 (left) and LC_{Ada}-Z14253 (right). (B) Inhibition of IL-17A induced IL-6 production. (C) Inhibition of TNF-induced IL-8 production. (D) Inhibition of TNF and IL-17A-induced IL-8 production. Z04726-ABD is a negative control, included in all three assays.

Figure 14 shows the pharmacokinetic profiles of the Z-ABD-Z polypeptide ZAZ3363 (SEQ ID NO:1244) in cynomolgus monkeys following i.v. administration of 20 mg/kg (black) or 40 mg/kg (grey) on day 1, 4, 7 and 10 as described in Example 20. Mean plasma concentrations versus time are shown following analysis of (A) the first injection on day 1 and (B) the fourth injection on day 10. Error bars represent standard deviation.

Figure 15 shows the pharmacokinetic profiles of the Z-ABD-Z polypeptide ZAZ3363 (SEQ ID NO:1244) in individual beagle dogs following oral administration. 150 mg of ZAZ3363 was administered as enteric coated capsules on day 0.

Examples

Summary

The following Examples disclose the development of novel Z variant molecules targeted to interleukin 17A (IL-17A) based on phage display technology. The IL-17A binding polypeptides described herein were sequenced, and their amino acid sequences are listed in Figure 1 with the sequence identifiers SEQ ID NO:1-1222. The Examples further describe the characterization of IL-17A binding polypeptides and *in vitro* and *in vivo* functionality of said polypeptides.

Example 1
Selection and screening of IL-17A binding Z variants

Materials and methods

Biotinylation of target protein: Human IL-17A (hIL-17A Peprotech cat. no. 200-17; SEQ ID NO:1226) and murine IL-17A (mIL-17A Peprotech cat. no. 210-17; SEQ ID NO:1227) were biotinylated according to the manufacturer's recommendations at room temperature (RT) for 30 min using No-Weigh EZ-Link Sulfo-NHS-LC-Biotin (Thermo Scentific, cat. no. 21327) at a 20 x molar excess. Subsequent buffer exchange to phosphate buffered saline (PBS,10 mM phosphate, 137 mM NaCl, 2.68 mM KCl, pH 7.4) was performed using a dialysis cassette (Slide-a-lyzer 3.5 K, 3500 MWCO,

Thermo Scentific, cat. no. 66333) according to the manufacturer's instructions.

Phage display selection of IL-17A binding Z variants: A library of random variants of protein Z displayed on bacteriophage, constructed in phagemid pAY02592 essentially as described in Grönwall *et al.* (2007) J Biotechnol, 128:162-183, was used to select IL-17A binding Z variants. In this library, an albumin binding domain (abbreviated ABD and corresponding to GA3 of protein G from *Streptococcus* strain G148) is used as fusion partner to the Z variants. The library is denoted Zlib006Naive.II and has a size of 1.5×10^{10} library members (Z variants). *E. coli* RRIΔM15 cells (Rüther *et al.,* (1982) Nucleic Acids Res 10:5765-5772) from a glycerol stock containing the phagemid library Zlib006Naive.II, were inoculated in 20 l of a defined proline free medium [3 g/l KH_2PO_4, 2 g/l K_2HPO_4, 0.02 g/l uracil, 6.7 g/l YNB (Difco™ Yeast Nitrogen Base w/o amino acids, Becton Dickinson), 5.5 g/l glucose monohydrate, 0.3 g/l L-alanine, 0.24 g/l L-arginine monohydrochloride, 0.11 g/l L-asparagine monohydrate, 0.1 g/l L-cysteine, 0.3 g/l L-glutamic acid, 0.1 g/l L-glutamine, 0.2 g/l glycine, 0.05 g/l L-histidine, 0.1 g/l L-isoleucine, 0.1 g/l L-leucine, 0.25 g/l L-lysine monohydrochloride, 0.1 g/l L-methionine, 0.2 g/l L-phenylalanine, 0.3 g/l L-serine, 0.2 g/l L-threonine, 0.1 g/l L-tryptophane, 0.05 g/l L-tyrosine, 0.1 g/l L-valine], supplemented with 100 µg/ml ampicillin. The cultivations were grown at 37 °C in a fermenter (Belach Bioteknik, BR20). When the cells reached an optical density at 600 nm (OD_{600}) of 0.75, approximately 2.6 l of the cultivation was infected using a 10 x molar excess of M13K07 helper phage (New England Biolabs, cat. no. N0315S). The cells were incubated for 30 min, whereupon the fermenter was filled up to 20 l with cultivation medium [2.5 g/l $(NH_4)_2SO_4$; 5.0 g/l Yeast Extract (Merck 1.03753.0500); 25 g/l Peptone (Scharlau 07-119); 2 g/l K_2HPO_4; 3 g/l KH_2PO_4; 1.25 g/l $Na_3C_6H_5O_7 \cdot 2\ H_2O$; 0.1 ml/l Breox FMT30 antifoaming agent] supplemented with 100 µM isopropyl-β-D-1-thiogalactopyranoside (IPTG) for induction of expression and with 50 µg/ml ampicillin, 12.5 µg/ml carbenicillin, 25 µg/ml kanamycin, 35 ml/l of 1.217 M $MgSO_4$ and 10 ml of a trace element solution [129 mM $FeCl_3$; 36.7 mM $ZnSO_4$; 10.6 mM $CuSO_4$; 78.1 mM $MnSO_4$; 94.1 mM $CaCl_2$, dissolved in 1.2 M HCl]. A glucose-limited fed-batch cultivation was started where a 600 g/l glucose solution was fed to the reactor (15 g/h in the start, 40 g/h at the end of the fermentation after 17 h). Through the automatic addition of 25 % NH_4OH, the pH was controlled at 7. Air was supplemented (10 l/min) and the stirrer was set to keep the

dissolved oxygen level above 30 %. The cells in the cultivation were removed by tangential flow filtration.

The phage particles were precipitated from the supernatant twice in PEG/NaCl (polyethylene glycol/sodium chloride), filtered and dissolved in PBS and glycerol as described in Grönwall *et al., supra*. Phage stocks were stored at -80 °C before use.

Selections against biotinylated hIL-17A (b-hIL-17A) or biotinylated mIL-17A (b-mIL-17A) were performed in four cycles divided in six different tracks (Table 2). Phage stock preparation, selection procedure and amplification of phage between selection cycles were performed essentially as described in WO2009/077175 for selection against another target with the following exceptions. Exception 1: PBS supplemented with 3 % bovine serum albumin (BSA, Sigma, cat. no. A3059) and 0.1 % Tween20 (Acros Organics, cat. no. 233362500) was used as selection buffer. Exception 2: pre-selection was performed in cycles 1-3 by incubation of phage stock with Dynabeads® M-280 Streptavidin (SA beads, Invitrogen, cat. no. 11206D). Exception 3: all tubes and beads used in the selections were pre-blocked with PBS supplemented with 5 % BSA and 0.1 % Tween20. Exception 4: selections were performed in solution at RT and the time for selection was 200 min in the first cycle and 120 min in the following cycles. Exception 5: this was followed by catching of target-phage complexes on SA beads using 1 mg beads per 6.4 µg b-hIL-17A or b-mIL-17A. Exception 6: *E. coli* strain XL1-Blue cells (Agilent Technologies, cat. no. 200268) grown in medium supplemented with 10 µg/ml tetracycline (exception 7) were used for infection. Exception 8: tryptone yeast extract plates (15 g/l agar, 10 g/l tryptone water (Merck), 5 g/l yeast extract, 3 g/l NaCl, 2 % glucose) supplemented with 0.1 g/l ampicillin and 0.01 g/l tetracycline were used for spreading of bacteria. Exception 9: a 10 x excess of M13K07 helper phage compared to bacteria was allowed to infect log phase bacteria.

An overview of the selection strategy, describing an increased stringency in subsequent cycles obtained using a lowered target concentration and an increased number of washes, is shown in Table 2.

Table 2: Overview of the selection from a primary library

Cycle	Selection track	Phage stock from library or selection track	Target	Target concentration (nM)	Number of washes	Higher amount of phage into selection track
1	1	Zlib006Naive.II	hIL-17A	50	2	-
2	1-1	1	hIL-17A	25	4	Yes
2	1-2	1	hIL-17A	25	4	-
2	1-3	1	hIL-17A	5	5	-
2	1-4	1	mIL-17A	50	4	-
3	1-1-1	1-1	hIL-17A	12.5	6	Yes
3	1-2-1	1-2	hIL-17A	12.5	6	-
3	1-3-1	1-3	hIL-17A	1	8	-
3	1-4-1	1-4	hIL-17A	12.5	6	-
3	1-4-2	1-4	mIL-17A	5	8	-
4	1-1-1-1	1-1-1	hIL-17A	5	8	Yes
4	1-2-1-1	1-2-1	hIL-17A	5	8	-
4	1-3-1-1	1-3-1	hIL-17A	0.25	12	-
4	1-3-1-2	1-3-1	hIL-17A	0.05	15	-
4	1-4-1-1	1-4-1	mIL-17A	5	8	-
4	1-4-2-1	1-4-2	hIL-17A	0.5	12	-

Track 1 was divided in the second to the fourth cycles, resulting in a total of four tracks (1-1 to 1-4) in cycle 2, five tracks (1-1-1 to 1-4-2) in cycle 3 and six tracks (1-1-1-1 to 1-4-2-1) in cycle 4. The number of phage particles used for selections was about 2000 times the number of eluted phage particles in the previous cycle, but a higher amount was used in selection tracks 1-1, 1-1-1 and 1-1-1-1.

Washes were performed for 1 min using PBST 0.1 % (PBS supplemented with 0.1 % Tween-20), and elution was carried out as described in WO2009/077175.

Production of Z variants for ELISA: The Z variants were produced by inoculating single colonies from the selections into 1 ml TSB-YE medium supplemented with 100 µg/ml ampicillin and 0.1 mM IPTG in deep-well plates (Nunc, cat. no. 278752). The plates were incubated for 18-24 h at 37 °C. Cells were pelleted by centrifugation, re-suspended in 400 µl PBST 0.05 % and frozen at -80 °C to release the periplasmic fraction of the cells. Frozen samples were thawed in a water bath and the freeze-thawing procedure was

repeated six times. 400 µl PBST 0.05 % was added to the thawed samples and cells were pelleted by centrifugation.

The final supernatant of the periplasmic extract contained the Z-variants as fusions to ABD, expressed as AQHDEALE-[Z#####]-VDYV-[ABD]-YVPG (Grönwall *et al., supra*). Z##### refers to individual 58 amino acid residue Z variants.

ELISA screening of Z variants: The binding of Z variants to human IL-17A was analyzed in ELISA assays. Half-area 96-well ELISA plates (Costar, cat. no. 3690) were coated at 4 °C overnight with 2 µg/ml of an anti-ABD goat antibody (produced in-house) diluted in coating buffer (50 mM sodium carbonate, pH 9.6; Sigma, cat. no. C3041). The antibody solution was poured off and the wells were washed in water and blocked with 100 µl of PBSC (PBS supplemented with 0.5 % casein) for 1 to 3 h at RT. The blocking solution was discarded and 50 µl periplasmic solutions were added to the wells and incubated for 1.5 h at RT under slow agitation. As a blank control, PBST 0.05 % was added instead of the periplasmic sample. The supernatants were poured off and the wells were washed 4 times with PBST 0.05 %. Next, 50 µl of b-hIL-17A at a concentration of 6.5 nM in PBSC was added to each well. The plates were incubated for 1.5 h at RT followed by washes as described above. Streptavidin conjugated HRP (Thermo Scientific, cat. no. N100) diluted 1:30,000 in PBSC, was added to the wells and the plates were incubated for 1 h. After washing as described above, 50 µl ImmunoPure TMB substrate (Thermo Scientific, cat. no. 34021) was added to the wells and the plates were treated according to the manufacturer's recommendations. The absorbance at 450 nm was measured using a Victor^3 multi-well plate reader (Perkin Elmer).

Sequencing: In parallel with the ELISA screening, all clones were picked for sequencing. PCR fragments were amplified from single colonies, sequenced and analyzed essentially as described in WO2009/077175.

Results

Phage display selection of IL-17A binding Z variants: Individual clones were obtained after four cycles of phage display selections against b-hIL-17A and b-mIL-17A.

ELISA screening of Z variants: The clones obtained after four cycles of selection were expanded in 96-well plates and screened for hIL-17A binding activity in ELISA. 42 Z variants were found to give a response of 4 x the blank

control or higher (0.43-3.2 AU) against hIL-17A at a concentration of 6.5 nM. No response was obtained for the blank control.

Sequencing: Sequencing was performed for clones obtained after four cycles of selection. Each variant was given a unique identification number #####, and individual variants are referred to as Z#####. The amino acid sequences of the 58 amino acid residues long Z variants are listed in Figure 1 and in the sequence listing as SEQ ID NO: 1200-1216. The deduced IL-17A binding motifs extend from residue 8 to residue 36 in each sequence. The amino acid sequences of the 49 amino acid residues long polypeptides predicted to constitute the complete three-helix bundle within each of these Z variants extend from residue 7 to residue 55.

Example 2

Production of monomeric IL-17A binding Z variants

This Example describes the general procedure for subcloning and production of His-tagged Z variants and Z variants in fusion with ABD, which are used throughout in characterization experiments below.

Materials and methods

Subcloning of Z variants with a His-tag: The DNA of respective Z variant was amplified from the library vector pAY02592. A subcloning strategy for construction of monomeric Z variant molecules with N-terminal His_6 tag was applied using standard molecular biology techniques (essentially as described in WO2009/077175 for Z variants binding another target). The Z gene fragments were subcloned into the expression vector pAY01448 resulting in the encoded sequence MGSSHHHHHHLQ-[Z#####]-VD.

Subcloning of Z variants in fusion with ABD: The DNA of respective Z variant was amplified from the library vector pAY02592. A PCR was performed using suitable primer pairs and the resulting gene fragments were cleaved with restriction enzymes *Pst*I and *Acc*I and ligated into the expression vector pAY03362 digested with the same enzymes, resulting in an ABD fusion protein, wherein the ABD variant is PP013 (SEQ ID NO:1224). The constructs encoded by the expression vectors were MGSSLQ-[Z#####]-VDSS-PP013.

Cultivation: *E. coli* BL21(DE3) cells (Novagen) were transformed with plasmids containing the gene fragment of each respective IL-17A binding Z variant and cultivated at 37 °C in 800 or 1000 ml of TSB-YE medium supplemented with 50 µg/ml kanamycin. In order to induce protein expression, IPTG was added to a final concentration of 0.2 mM at OD_{600} = 2 and the cultivation was incubated at 37 °C for another 5 h. The cells were harvested by centrifugation.

Purification of IL-17A binding Z variants with a His_6-tag: Approximately 2-5 g of each cell pellet was re-suspended in 30 ml of binding buffer (20 mM sodium phosphate, 0.5 M NaCl, 20 mM imidazole, pH 7.4) supplemented with Benzonase® (Merck) to a concentration of 15 U/ml. After cell disruption, cell debris was removed by centrifugation and each supernatant was applied on a 1 ml His GraviTrap IMAC column (GE Healthcare). Contaminants were removed by washing with wash buffer (20 mM sodium phosphate, 0.5 M NaCl, 60 mM imidazole, pH 7.4 and the IL-17A binding Z variants were subsequently eluted with elution buffer (20 mM sodium phosphate, 0.5 M NaCl, 500 mM imidazole, pH 7.4).

Purification of IL-17A binding Z variants in fusion with ABD: Approximately 1-2 g of each cell pellet was re-suspended in 30 ml TST-buffer (25 mM Tris-HCl, 1 mM EDTA, 200 mM NaCl, 0.05 % Tween20, pH 8.0) supplemented with Benzonase® (Merck). After cell disruption by sonication and clarification by centrifugation, each supernatant was applied on a gravity flow column with 1 ml agarose immobilized with an anti-ABD ligand (produced in-house). After washing with TST-buffer and 5 mM NH_4Ac pH 5.5 buffer, the ABD fused Z variants were eluted with 0.1 M HAc. To fractions eluted in the anti-ABD agarose affinity chromatography purification step, acetonitrile (ACN) was added to a final concentration of 10 % and the sample was loaded on 1 ml Resource 15RPC column (GE Healthcare), previously equilibrated with RPC solvent A (0.1 % TFA, 10 % ACN, 90 % water). After column wash with RPC solvent A, bound proteins were eluted with a linear gradient 0-50 % RPC solvent B (0.1 % TFA, 80 % ACN, 20 % water) for 20 ml. Fractions containing pure ABD-fused Z variants were identified by SDS-PAGE analysis and pooled. After the RPC purification, the buffer of the pool was exchanged to PBS (2.68 mM KCl, 137 mM NaCl, 1.47 mM KH_2PO_4, 8.1 mM Na_2HPO_4, pH 7.4) using PD-10 columns (GE Healthcare). Finally, the ABD fused Z variants were purified on 1 ml EndoTrap® red columns (Hyglos) to ensure low endotoxin content.

Protein concentrations were determined by measuring the absorbance at 280 nm, using a NanoDrop® ND-1000 spectrophotometer and the extinction coefficient of the respective protein. The purity was analyzed by SDS-PAGE stained with Coomassie Blue and the identity of each purified Z variant was confirmed using LC/MS analysis.

Results

Cultivation and purification: The IL-17A binding Z variants with a His_6-tag as well as the Z variants fused at their C-terminus to ABD, were expressed as soluble gene products in *E. coli.* The amount of purified protein from approximately 1-5 g bacterial pellet was determined spectrophotometrically by measuring the absorbance at 280 nm and ranged from approximately 5 mg to 20 mg for the different IL-17A binding Z variants. SDS-PAGE analysis of each final protein preparation showed that these predominantly contained the IL-17A binding Z variant. The correct identity and molecular weight of each Z variant were confirmed by HPLC-MS analysis.

Example 3

Assessment of blocking ability of primary IL-17A binding Z variants

Normal human dermal fibroblasts (NHDF) produce IL-6 upon stimulation with IL-17A (Chang and Dong 2007, Cell Research 17:435-440) and the amount of released IL-6 to the supernatant is correlated to the concentration of added IL-17A. Thus, blocking of IL-17A leads to a reduction of IL-6 in the supernatant that can be quantified. In this Example, the assay was used to evaluate the blocking ability of IL-17A binding Z variants Z06260 (SEQ ID NO:1200), Z06282 (SEQ ID NO:1206) and Z06455 (SEQ ID NO:1214), alone or in fusion with ABD (PP013; SEQ ID NO:1224).

Materials and methods

NHDF assay with His_6-tagged Z-variants: NHDF cells (Lonza, cat. no. CC-2511) were cultured in fibroblast basal medium (Lonza, cat. no. CC-3132) supplied with growth promoting factors (Lonza, cat. no. CC-5034). On the day before the experiment, 10^5 cells were seeded in 100 µl per well into 96-well culture plates (Greiner, cat.no. 655180). On the day of the experiment, dilutions of the IL-17A specific Z variants His_6-Z06260, His_6-Z06282 and His_6-

Z06455 were prepared in a separate 96-well plate. The Z variants were titrated in three-fold steps from 3130 nM to 0.2 nM in medium containing 0.031 nM hIL-17A. A standard curve of hIL-17A was also prepared (0.002-31 nM) as well as controls containing medium with 0.031 nM hIL-17A or medium alone. The medium in the plate with the overnight cultured NHDF cells was discarded. Test samples, standard curve samples and controls were transferred to the cell-containing plate. The NHDF cells were stimulated for 18-24 h at 37 °C and the IL-6 content in the supernatants was subsequently quantified using the IL-6 specific ELISA described below.

NHDF assay with His_6-tagged and ABD fused Z variants: NHDF cells were prepared as described above. On the day of the experiment, dilutions of the IL-17A specific Z variant constructs His_6-Z06282, His_6-Z06455, Z06260-ABD, Z06282-ABD and Z06455-ABD were prepared in a separate 96-well plate. The Z variant constructs were titrated in four-fold steps from 780 nM to 0.2 nM in medium containing 0.031 nM IL-17A and 8 µM HSA. Preparation of a standard IL-17A curve and controls, as well as downstream analysis, was performed as described above.

IL-6 ELISA: 96-well half area plates (Costar, cat. no. 3690) were coated with the anti-IL-6 monoclonal antibody MAB206 (R&D systems) at a concentration of 4 µg/ml in PBS (50 µl/well) and incubated overnight at 4 °C. On the next day, the plates were rinsed twice in tap water and blocked with PBS + 2 % BSA (Sigma) for 2 h. An IL-6 standard (R&D systems, cat. no. 206-IL-50), titrated in a 2-fold dilution series (0.2-50 ng/ml) and supernatants from the cell assay plate were added to the coated ELISA plates (50 µl/well) and incubated for 1.5 h at RT. The plates were washed 4 times in an automated ELISA washer and 0.25 µg/ml (50 µl/well) of biotinylated anti-IL-6 polyclonal antibody (R&D systems, BAF206) was added. After incubation for 1 h, the plate was washed and 50 µl of streptavidin-HRP (Thermo Fisher, cat. no. N100) diluted 8000 times was added to each well. After one additional hour of incubation and subsequent washing, the plate was developed with 50 µl TMB (Thermo Fisher, cat. no. 34021) per well and the reactions were stopped with 50 µl 2M H_2SO_4. The absorbance at 450 nm was measured in a 96-well plate reader (Victor^3) and the concentration of IL-6 in each sample was calculated. The results are presented as the percentage of maximum IL-6 production, calculated as:

$$100-[(ABS_{IL\text{-}17A\ blocker} - ABS_{background}) / (ABS_{Max\ IL\text{-}6\ prod} - ABS_{background})] \times 100$$

Results

Results from the first NHDF assay showed that all three Z variants His_6-Z06260, His_6-Z06282 and His_6-Z06455 blocked IL-17A induced IL-6 production in a dose dependent manner (Figure 2A). The IC50 values were approximately 40-140 nM.

The NHDF assay was repeated with the same Z variants fused to ABD as well as inclusion of HSA in the assay to ascertain retained binding to the antigen when mimicking *in vivo* conditions. *In vivo*, ABD will bind to albumin and convey longer circulation half-life. The results showed that all three binders in fusion with ABD blocked IL-17A induced IL-6 production equally well or better than the His_6-tagged Z variants (Figure 2B). The IC50 values from the second assay are summarized in Table 3.

Table 3: IC50 values for primary Z-variants blocking IL-17A induced IL-6 production in the presence of HSA

Analyte	SEQ ID NO of Z variant	IC50 (nM)
Z06260-ABD	1200	8
His_6-Z06282	1206	16
Z06282-ABD	1206	15
His_6-Z06455	1214	67
Z06455-ABD	1214	15

Example 4

Design and construction of a first maturated library of IL-17A binding Z variants

In this Example, a maturated library was designed and constructed. The library was used for selection of further IL-17A binding Z variants. Selections from maturated libraries are usually expected to result in binders with increased affinity (Orlova *et al.,* (2006) Cancer Res 66(8):4339-48). In this study, randomized single stranded linkers were generated using split-pool DNA synthesis, enabling incorporation of defined codons in desired positions in the synthesis.

Materials and methods

Library design: The library was based on the sequences of the IL-17A binding Z variants identified as described in Example 1. In the new library, 13 variable positions in the Z molecule scaffold were biased towards certain amino acid residues, according to a strategy based on the Z variant sequences defined in SEQ ID NO:1200-1216. A DNA linker was generated using split-pool synthesis containing the following 147 bp sequence ordered from DNA 2.0 (Menlo Park, CA, USA): 5'- AA ATA AAT CTC GAG GTA GAT GCC AAA TAC GCC AAA GAA NNN NNN NNN GCG NNN NNN GAG ATC NNN NNN TTA CCT AAC TTA ACC NNN NNN CAA NNN NNN GCC TTC ATC NNN AAA TTA NNN GAT GAC CCA AGC CAG AGC TCA TTA TTT A-3' (SEQ ID NO:1248; randomized codons are denoted NNN), comprising a coding sequence for a partially randomized helix 1 and 2 in the corresponding amino acid sequence, flanked by restriction sites for *Xho*I and *Sac*I. The theoretical distributions of amino acid residues in the new library including 13 variable Z positions (9, 10, 11, 13, 14, 17, 18, 24, 25, 27, 28, 32 and 35) in the Z molecule scaffold are given in Table 4. The resulting theoretical library size is 6.1 x 10^9 variants.

Table 4: Library design, first maturation

Amino acid position in the Z variant molecule	**Randomization (amino acid abbreviations)**	**No of amino acids**	**Proportion**
9	A,H,M,W,Y	5	1/5
10	A,D (60 %),G,L,N	5	1/10, 6/10 (D)
11	D,E,F,N,Q R,Y	7	1/7
13	A,E,Q,W	4	1/4
14	F,I,L,M,V,W	6	1/6
17	A,F,Q,W	4	1/4
18	A,D,E,L,M,S,T	7	1/7
24	A,H,R,T,W,Y	6	1/6
25	A,D,H,R,V	5	1/5
27	A,G,Q,R,S,W	6	1/6
28	F,H,K,N,R,S,T,V,Y	9	1/9
32	A,G,H,I,Q,R,S,V	8	1/8
35	I,L,N,R	4	1/4

Library construction: The library was amplified using Ampli*Taq* Gold polymerase (Applied Biosystems, cat. no. 4311816) during 12 cycles of PCR, and pooled products were purified with QIAquick PCR Purification Kit (QIAGEN, cat. no. 28106) according to the supplier's recommendations. The purified pool of randomized library fragments was digested with restriction enzymes *Xho*I and *Sac*I-HF (New England Biolabs, cat. no. R0146L and cat. no. R3156M, respectively) and concentrated using the QIAquick PCR Purification Kit. Subsequently, the product was subjected to gel electrophoresis using a preparative 2.5 % agarose gel (Nuisieve GTC agarose, Cambrex, Invitrogen) and purified from said gel using QIAGEN Gel Extraction Kit (QIAGEN, cat. no. 28706) according to the supplier's recommendations.

The phagemid vector pAY02592 (essentially as pAffi1 described in Grönwall *et al., supra*) was restricted with the same enzymes, purified using phenol/chloroform extraction and ethanol precipitation. The restricted fragments and the restricted vector were ligated in a molar ratio of 5:1 with T4 DNA ligase (Fermentas, cat. no. EL0011) for 2 h at RT, followed by overnight incubation at 4 °C. The ligated DNA was recovered by phenol/chloroform extraction and ethanol precipitation, followed by dissolution in 10 mM Tris-HCl, pH 8.5. Thus, the resulting library in vector pAY02592 encoded Z variants each fused to an albumin binding domain (ABD) derived from streptococcal Protein G.

The ligation reactions (approximately 160 ng DNA/transformation) were electroporated into electrocompetent *E. coli* ER2738 cells (Lucigen, Middleton, WI, USA, 50 µl). Immediately after electroporation, approximately 1 ml of recovery medium (supplied with *E. coli* ER2738 cells) was added. The transformed cells were incubated at 37 °C for 60 min. Samples were taken for titration and for determination of the number of transformants. The cells were thereafter pooled and cultivated overnight at 37 °C in 1 l of TSB-YE medium, supplemented with 2 % glucose, 10 µg/ml tetracycline and 100 µg/ml ampicillin. The cells were pelleted for 15 min at 4,000 *g* and resuspended in a PBS/glycerol solution (approximately 40 % glycerol). The cells were aliquoted and stored at -80 °C. Clones from the library of Z variants were sequenced in order to verify the content and to evaluate the outcome of the constructed library vis-à-vis the library design. Sequencing was performed as described in Example 1 and the amino acid distribution was verified.

Preparation of phage stock: Phage stock containing the phagemid library was prepared in a 20 l fermenter (Belach Bioteknik). Cells from a glycerol stock containing the phagemid library were inoculated in 10 l of TSB-YE supplemented with 1 g/l glucose, 100 mg/l ampicillin and 10 mg/l tetracycline. When the cells reached an optical density at 600 nm (OD_{600}) of 0.52, approximately 1.7 l of the cultivation was infected using a 5 x molar excess of M13K07 helper phage. The cells were incubated for 30 min, whereupon the fermenter was filled up to 10 l with complex fermentation medium [2.5 g/l $(NH_4)_2SO_4$; 5.0 g/l yeast extract; 30 g/l tryptone, 2 g/l K_2HPO_4; 3 g/l KH_2PO_4, 1.25 g/l; $Na_3C_6H_5O_7 \cdot 2\ H_2O$; Breox FMT30 antifoaming agent 0.1 ml/l]. The following components were added: 10 ml carbenicillin 25 mg/ml; 5 ml kanamycin 50 mg/ml; 1 ml 1 M IPTG; 17.5 ml/l 1.217 M $MgSO_4$ and 5 ml of a trace element solution [129 mM $FeCl_3$; 36.7 mM $ZnSO_4$; 10.6 mM $CuSO_4$; 78.1 mM $MnSO_4$; 94.1 mM $CaCl_2$, dissolved in 1.2 M HCl]. A glucose limited fed-batch cultivation was started where a 600 g/l glucose solution was fed to the reactor (3.5 g/h at the start, 37.5 g/h after 20 h continuing until the end of the cultivation). Through the automatic addition of 25 % NH_4OH, the pH was controlled at pH 7. Air was supplemented (5 l/min) and the stirrer was set at 500 rpm. After 24 h of fed-batch cultivation the OD_{600} was 19.4. The cells in the cultivation were pelleted by centrifugation at 15,900 *g*. The phage particles were precipitated from the supernatant twice in PEG/NaCl, filtered and dissolved in PBS and glycerol as described in Example 1. Phage stocks were stored at -80 °C until use in selection.

Results

Library construction: The new library was designed based on a set of IL-17A binding Z variants with verified binding properties (Example 1 and 3). The theoretical size of the designed library was 6.1 x 10^9 Z variants. The actual size of the library, determined by titration after transformation to *E. coli* ER2738 cells, was 4.5 x 10^9 transformants.

The library quality was tested by sequencing of 96 transformants and by comparing their actual sequences with the theoretical design. The contents of the actual library compared to the designed library were shown to be satisfactory. A maturated library of potential binders to IL-17A was thus successfully constructed.

Example 5
Selection, screening and characterization of Z variants from the first maturated library

Materials and methods

Phage display selection of IL-17A binding Z variants: The target proteins hIL-17A and mIL-17A were biotinylated as described in Example 1. Phage display selections, using the new library of Z variant molecules constructed as described in Example 4, were performed in four cycles against hIL-17A and mIL-17A essentially as described in Example 1, with the following exceptions. Exception 1: PBST 0.1 % was used as selection buffer. At selection, fetal calf serum (FCS, Gibco, cat. no.10108-165) and human serum albumin (HSA, Albucult, Novozymes, cat. no. 230-005) were added to the selection buffer to a final concentration of 10 % and 1.5 µM, respectively. Exception 2: a pre-selection step was performed in cycle 1 by incubating the phage stock with SA beads. Exception 3: all tubes and beads used in the selection were pre-blocked with PBS supplemented with 3 % BSA and 0.1 % Tween20. Exception 4: the time for selection was 140, 70, 60 and 50 min in cycles 1, 2, 3 and 4, respectively.

An overview of the selection strategy, describing an increased stringency in subsequent cycles obtained by using a lowered target concentration and an increased number of washes, is shown in Table 5.

Table 5: Overview of the selection from the first maturated library

Cycle	Selection track	Phage stock from library or selection track	Target	Target conc. (nM)	Number of 1 min washes	Number of 10 min washes	Number of overnight washes	Elution at
1	1	Zlib006IL-17A.I	hIL-17A	25	2	-	-	pH 5.5
1	2	Zlib006IL-17A.I	hIL-17A	12.5	3	-	-	pH 2.2
1	3	Zlib006IL-17A.I	hIL-17A	25	2	-	-	pH 2.2
2	1-1	1	hIL-17A	12.5	6	-	-	pH 5.5
2	2-1	2	hIL-17A	2.5	10	-	-	pH 2.2
2	2-2	2	hIL-17A	5	6	-	-	pH 2.2
2	3-1	3	hIL-17A	7.5	10	-	-	pH 2.2
2	3-2	3	hIL-17A	12.5	6	-	-	pH 2.2

Cycle	Selection track	Phage stock from library or selection track	Target	Target conc. (nM)	Number of 1 min washes	Number of 10 min washes	Number of overnight washes	Elution at
2	3-3	3	mIL-17A	12.5	6	-	-	pH 2.2
3	1-1-1	1-1	hIL-17A	2.5	10	-	-	pH 5.5
3	2-1-1	2-1	hIL-17A	0.05	15	1	-	pH 2.2
3	2-2-1	2-2	hIL-17A	0.5	15	1	-	pH 2.2
3	3-1-1	3-1	hIL-17A	0.75	15	1	-	pH 2.2
3	3-2-1	3-2	hIL-17A	2.5	10	-	-	pH 2.2
3	3-3-1	3-3	hIL-17A	5	10	-	-	pH 2.2
4	1-1-1-1a	1-1-1	hIL-17A	0.05	20	-	-	pH 5.5
4	1-1-1-1b	1-1-1	hIL-17A	0.05	20	-	1	pH 5.5
4	1-1-1-2a	1-1-1	hIL-17A	1	12	-	-	pH 5.5
4	1-1-1-2b	1-1-1	hIL-17A	1	12	-	1	pH 5.5
4	2-1-1-1a	2-1-1	hIL-17A	0.0025	30	-	-	pH 2.2
4	2-1-1-1b	2-1-1	hIL-17A	0.0025	30	-	1	pH 2.2
4	2-1-1-2a	2-1-1	hIL-17A	0.025	20	-	-	pH 2.2
4	2-1-1-2b	2-1-1	hIL-17A	0.025	20	-	1	pH 2.2
4	2-2-1-1a	2-2-1	hIL-17A	0.005	30	-	-	pH 2.2
4	2-2-1-1b	2-2-1	hIL-17A	0.005	30	-	1	pH 2.2
4	2-2-1-2a	2-2-1	hIL-17A	0.05	20	-	-	pH 2.2
4	2-2-1-2b	2-2-1	hIL-17A	0.05	20	-	1	pH 2.2
4	3-1-1-1a	3-1-1	hIL-17A	0.025	30	-	-	pH 2.2
4	3-1-1-1b	3-1-1	hIL-17A	0.025	30	-	1	pH 2.2
4	3-1-1-2a	3-1-1	hIL-17A	0.25	20	-	-	pH 2.2
4	3-1-1-2b	3-1-1	hIL-17A	0.25	20	-	1	pH 2.2
4	3-2-1-1a	3-2-1	hIL-17A	0.05	20	-	-	pH 2.2
4	3-2-1-1b	3-2-1	hIL-17A	0.05	20	-	1	pH 2.2
4	3-2-1-2a	3-2-1	hIL-17A	1	12	-	-	pH 2.2
4	3-2-1-2b	3-2-1	hIL-17A	1	12	-	1	pH 2.2
4	3-3-1-1a	3-3-1	mIL-17A	0.05	20	-	-	pH 2.2
4	3-3-1-1b	3-3-1	mIL-17A	0.05	20	-	1	pH 2.2
4	3-3-1-2a	3-3-1	mIL-17A	1	15	-	-	pH 2.2
4	3-3-1-2b	3-3-1	mIL-17A	1	15	-	1	pH 2.2

Tracks 1-3 in cycle 1 were split in the second to fourth cycles, resulting in a total of six tracks (1-1 to 3-3) in cycle 2, six tracks (1-1-1 to 3-3-1) in cycle 3 and 24 tracks (1-1-1-1a to 3-3-1-2b) in cycle 4. Washes were performed using PBST 0.1 % for 1 min. However, for track 1-3 in cycle 3, one of the washes lasted for 10 min.

After the last wash in cycle 4, the target-phage complexes on SA beads from all tracks were divided in two equal parts. Bound phage particles from the first part were immediately eluted, while the second part was subjected to an overnight wash before elution of phage particles. The bound phage particles were eluted using two different procedures: 1) with glycine-HCl, pH 2.2, as in Example 1, or 2) 500 µl of 100 mM sodium phosphate, 150 mM sodium chloride, pH 5.5 and neutralization with 500 µl PBS.

Amplification of phage particles: Amplification of phage particles between selection cycle 1 and 2 was performed essentially as described in Example 1, with the following three exceptions. Exception 1: *E. coli* ER2738 was used for phage amplification. Exception 2: M13K07 helper phage were used in 5 x excess. Exception 3: the amplification of phage particles between the selection cycles 2 and 4 was performed as follows: after infection of log phase *E. coli* ER2738 with phage particles, TSB supplemented with 2 % glucose, 10 µg/ml tetracycline and 100 µg/ml ampicillin was added and followed by incubation with rotation for 30 min at 37 °C. Next, the bacteria were infected with M13K07 helper phage. The infected bacteria were pelleted by centrifugation, re-suspended in TSB-YE medium supplemented with 100 µM IPTG, 25 µg/ml kanamycin and 100 µg/ml ampicillin, and grown overnight at 30 °C. The overnight cultures were centrifuged, and phage particles in the supernatant were precipitated twice with PEG/NaCl buffer. Lastly, phages were re-suspended in selection buffer before entering the next selection cycle.

In the final selection cycle, log phase bacteria were infected with eluate and diluted before spreading onto TBAB plates (30 g/l tryptose blood agar base, Oxoid cat. no. CMO233B) supplemented with 0.2 g/l ampicillin in order to form single colonies to be used in ELISA screening.

Sequencing of potential binders: Individual clones from the different selection tracks were picked for sequencing. Amplification of gene fragments and sequence analysis of gene fragments were performed essentially as described in Example 1.

ELISA screening of Z variants: Single colonies containing Z variants (expressed as Z variant ABD fusion proteins as described in Example 1) were randomly picked from the selected clones of the maturated library, and grown in cultivations essentially as described in Example 1. Preparation of the periplasmic supernatants and ELISA screenings were also performed essentially as described in Example 1 with the following two exceptions. Exception 1: biotinylated hIL-17A was used at a concentration of 0.4 nM. Exception 2: the periplasmic fraction of Z variant Z06282 (SEQ ID NO:1206) from the primary selection was used as a positive control.

EC50 analysis of Z variants: A selection of IL-17A binding Z variants was subjected to an analysis of response against a dilution series of b-hIL-17A using ELISA as described above. Biotinylated target protein was added at a concentration of 6 nM and diluted stepwise 1:3 down to 8 pM. As a background control, the Z variants were also assayed with no target protein added. Periplasm samples containing the primary IL-17A binder Z06282 (SEQ ID NO:1206) were included as a positive control. Data were analyzed using GraphPad Prism 5 and non-linear regression, and EC50 values (the half maximal effective concentration) were calculated.

Results

Phage display selection of maturated IL-17A binding Z variants: Selection was performed in a total of 24 parallel tracks containing four cycles each. The different selection tracks differed in target concentration, target species origin (human IL-17A or murine IL-17A), selection time, wash conditions and the pH of the elution buffer. Clones originating from the selection tracks using only human IL-17 and elution at pH 2.2 were shown to have the best performance in ELISA screen.

Sequencing: Randomly picked clones were sequenced. Each individual Z variant was given an identification number, Z#####, as described in Example 1. In total, 932 new unique Z variant molecules were identified. For the 494 best performing variants in the ELISA screen below, the amino acid sequences of the 58 amino acid residues long Z variants are listed in Figure 1 as SEQ ID NO:1-3, SEQ ID NO:11-16, SEQ ID NO:28-31, SEQ ID NO:36-63 and SEQ ID NO:67-519. The deduced IL-17A binding motifs extend from residue 8 to residue 36 in each sequence. The amino acid sequences of the 49 amino acid residues long polypeptides predicted to constitute the

complete three-helix bundle within each of these Z variants extend from residue 7 to residue 55.

ELISA screening of Z variants: Clones obtained after four selection cycles were produced in 96-well plates and screened for human IL-17A binding activity using ELISA. All randomly picked clones were analyzed. 494 of the 932 unique Z variants were found to give a response of 2 x the blank control or higher (0.15-2.0 AU) against hIL-17A at a concentration of 0.4 nM. Positive signals were shown for clones originating from all selection tracks. The blank controls had absorbances of 0.055-0.075 AU.

EC50 analysis of Z variants: A subset of Z variants was selected based on the result of the ELISA screening experiment described above (absorbance over 1.25 AU) or based on variation in amino acid sequence, and subjected to a target titration in ELISA format. Periplasm samples were incubated with a serial dilution of b-hIL-17A ranging from 6 nM to 8 pM. A periplasm sample containing Z06282 (SEQ ID NO:1206) identified in the primary selection was included as a positive control. Obtained values were analyzed and the respective EC50 values were calculated (Table 6).

Table 6: Calculated EC50 values from ELISA titration analysis

Z variant	SEQ ID NO	EC50 (M)	Z variant	SEQ ID NO	EC50 (M)
Z10210	36	1.1×10^{-9}	Z10703	48	7.5×10^{-10}
Z10241	11	3.4×10^{-10}	Z10708	49	4.1×10^{-10}
Z10255	37	4.6×10^{-10}	Z10710	50	5.4×10^{-10}
Z10257	38	6.7×10^{-10}	Z10718	16	5.1×10^{-10}
Z10433	28	9.4×10^{-10}	Z10728	51	5.3×10^{-10}
Z10459	39	4.7×10^{-10}	Z10745	52	6.8×10^{-10}
Z10462	12	3.4×10^{-10}	Z10756	53	6.4×10^{-10}
Z10465	40	5.0×10^{-10}	Z10759	54	6.7×10^{-10}
Z10470	41	4.7×10^{-10}	Z10775	55	5.1×10^{-10}
Z10483	42	4.0×10^{-10}	Z10778	56	4.7×10^{-10}
Z10508	2	3.8×10^{-10}	Z10779	57	5.7×10^{-10}
Z10529	43	6.4×10^{-10}	Z10800	58	6.4×10^{-10}
Z10532	1	3.6×10^{-10}	Z10807	59	6.0×10^{-10}
Z10534	13	4.1×10^{-10}	Z10844	60	7.5×10^{-10}
Z10550	44	7.9×10^{-10}	Z10857	61	4.5×10^{-10}
Z10565	45	3.8×10^{-10}	Z10858	62	5.2×10^{-10}
Z10566	14	5.5×10^{-10}	Z10859	31	6.9×10^{-10}
Z10675	15	3.6×10^{-10}	Z10863	3	4.5×10^{-10}
Z10676	46	4.0×10^{-10}	Z10914	63	5.1×10^{-10}
Z10690	47	5.9×10^{-10}	Z06282	1206	5.0×10^{-9}

Example 6

Design and construction of a second maturated library of IL-17A binding Z variants

In this Example, a second maturated library was constructed essentially as described in Example 4. The library was used for selections of additional IL-17A binding Z variants.

Materials and methods

Library design: The library was based on the sequences of IL-17A binding Z variants selected and characterized in Example 5. In the new library, the 13 positions in the Z molecule scaffold that were varied in the maturation library described in Examples 4 and 5 were biased towards certain amino acid residues, according to a strategy based on the Z variant sequences of the 37 top performing variants in the EC50 analysis (Table 6). A DNA linker was generated using split-pool synthesis and ordered from DNA 2.0. It contained the following 147 bp, encoding partially randomized helix 1 and 2 of the amino acid sequence: 5'- AA ATA AAT CTC GAG GTA GAT GCC/GCA AAA TAC GCC AAA GAA/GAG NNN NNN NNN GCG NNN NNN GAG ATC/ATT NNN NNN TTA/CTG CCT/CCC AAC TTA/CTC ACC NNN NNN CAA/CAG NNN NNN GCC TTC ATC NNN AAA TTA NNN GAT GAC CCA AGC CAG AGC TCA TTA TTT A -3' (SEQ ID NO:1249; randomized codons are denoted NNN) flanked by restriction sites *Xho*I and *Sac*I. The theoretical distributions of amino acid residues in the new library, including six variable amino acid positions (11, 14, 18, 25, 28 and 32) and seven constant amino acid positions (9, 10, 13, 17, 24, 27 and 35) in the Z molecule scaffold are given in Table 7. The resulting theoretical library size is 3.9×10^6 variants.

Library construction: The library was constructed essentially as described in Example 4 with the following exception: the cells were cultivated overnight in 0.5 l of TSB-YE medium, supplemented with 2 % glucose, 10 µg/ml tetracycline and 100 µg/ml ampicillin.

Preparation of phage stock: Phage stock containing the phagemid library was prepared in shake flasks. Cells from a glycerol stock containing the phagemid library were inoculated in 0.5 l of TSB-YE medium, supplemented with 2 % glucose, 10 µg/ml tetracycline and 100 µg/ml

ampicillin. The cultivations were grown at 37 °C until OD_{600} reached 0.6 and then approximately 83 ml of the cultivation was infected using a 5 x molar excess of M13K07 helper phage and incubated for 40 min at 37 °C. The cells in the cultivation were pelleted by centrifugation, dissolved in TSB-YE medium, supplemented with 100 µg/ml ampicillin, 25 µg/ml kanamycin and 0.1 mM IPTG and grown at 30 °C for 18 h. After cultivation, the cells were pelleted by centrifugation at 4,000 *g* and the phage particles remaining in the medium were thereafter precipitated twice in PEG/NaCl, filtered and dissolved in PBS and glycerol as described in Example 1. Phage stocks were stored at -80 °C until use in selection.

Table 7: Library design, second maturation

Amino acid position in the Z variant molecule	**Randomization (amino acid abbreviations)**	**No of amino acids**	**Proportion**
9	A	1	1/1
10	D	1	1/1
11	A,D,E,F,G,H,I,K,L,M,N,Q,R,S,T,V,W	17	1/17
13	A	1	1/1
14	A,F,I,L,M,V,Y	7	1/7
17	A	1	1/1
18	A,D,E,F,G,H,I,K,L,M,N,Q,R,S,V,W,Y	17	1/17
24	W	1	1/1
25	A,D (50 %),E,F,I,L,M,V,W,Y	10	1/18, 1/2 (D)
27	W	1	1/1
28	A,D,E,F,G,H,I,L,M,Q,W,Y	12	1/12
32	A,D,E,F,G,H,K,L,M,N,Q,R,S,T,W,Y	16	1/16
35	R	1	1/1

Results

Library construction: The new library was designed based on a set of IL-17A binding Z variants with verified binding properties (Example 5). The theoretical size of the designed library was 3.9×10^6 Z variants. The actual size of the library, determined by titration after transformation to *E. coli.* ER2738 cells, was 1.4×10^9 transformants.

The library quality was tested by sequencing of 96 transformants and by comparing their actual sequences with the theoretical design. The contents

of the actual library compared to the designed library were shown to be satisfactory. A maturated library of potential binders to IL-17A was thus successfully constructed.

Example 7
Selection, screening and characterization of Z variants from the second maturated library

Materials and methods

Phage display selection of IL-17A binding Z variants: The target protein hIL-17A was biotinylated as described in Example 1. Phage display selections, using the second maturated library of Z variant molecules constructed as described in Example 6, were performed against hIL-17A essentially as described in Example 5 with the following exceptions. Exception 1: selections were performed in solution or at solid phase in RT. Exception 2: the time for selection was 60 min, 10 min or 1 min in cycle 1 and 30 min, 4 min or 10 sec in cycles 2, 3 and 4. Selection in solution was followed by catching of target-phage complexes on SA beads as described in Example 1. Exception 3: during selection on solid phase, the target was caught on SA beads prior to selection.

An overview of the selection strategy, summarizing the differences between selection in solution and selection on solid phase, as well as the increased stringency in subsequent cycles obtained by using a lowered target concentration and an increased number of washes, is shown in Table 8.

Tracks 1-6 in cycle 1 were divided in the second to fourth cycles, resulting in total of seven tracks (1-1 to 6-1) in cycle 2, eight tracks (1-1-1 to 6-1-1) in cycle 3 and 16 tracks (1-1-1-1 to 6-1-1-1) in cycle 4. Washes were performed using PBST 0.1 % during 1 min. However, one of the washes lasted for 15 min in tracks 2-1-1, 3-1-1 and 5-1-1 in cycle 3.

After the last wash in cycle 4, the target-phage complexes on SA beads from five of the tracks (1-1-1-1, 1-2-1-2, 3-1-1-1, 4-1-1-1 and 5-1-1-2) were divided in two equal parts. Bound phage particles from the first part were immediately eluted, while the second part was subjected to a wash during approximately 65 h before the elution of phage particles. The bound phage were eluted using glycine-HCl, pH 2.2, as described in Example 1.

The amplification of phage particles between selection cycles was performed essentially as described in Example 1.

Table 8: Overview of the selection from the second maturated library

Cycle	Selection track	Phage stock from library or selection track	Target conc. (pM)	Selection time (min)	Number of 1 min washes	Number of 15 min washes	Number of ~65 h washes	Selection method
1	1	Zlib006IL-17A.II	12500	60	3	-	-	solution
1	2	Zlib006IL-17A.II	12500	60	3	-	-	solution
1	3	Zlib006IL-17A.II	1250	60	3	-	-	solution
1	4	Zlib006IL-17A.II	12500	10	3	-	-	solid phase
1	5	Zlib006IL-17A.II	2500	10	3	-	-	solid phase
1	6	Zlib006IL-17A.II	2500	1	3	-	-	solid phase
2	1-1	1	5000	30	6	-	-	solution
2	1-2	1	2500	30	10	-	-	solution
2	2-1	2	1000	30	10	-	-	solution
2	3-1	3	100	30	10	-	-	solution
2	4-1	4	5000	4	6	-	-	solid phase
2	5-1	5	250	4	10	-	-	solid phase
2	6-1	6	250	0.17	10	-	-	solid phase
3	1-1-1	1-1	500	30	15	-	-	solution
3	1-2-1	1-2	50	30	15	-	-	solution
3	2-1-1	2-1	25	30	14	1	-	solution
3	3-1-1	3-1	5	30	14	1	-	solution
3	4-1-1	4-1	500	4	15	-	-	solid phase
3	4-1-2	4-1	50	4	15	-	-	solid phase
3	5-1-1	5-1	25	4	14	1	-	solid phase
3	6-1-1	6-1	5	0.17	15	-	-	solid phase
4	1-1-1-1	1-1-1	50	30	20	-	-	solution
4	1-1-1-1X	1-1-1	50	30	20	-	1	solution
4	1-1-1-2	1-1-1	5	30	20	-	-	solution
4	1-2-1-1	1-2-1	25	30	20	-	-	solution
4	1-2-1-2	1-2-1	5	30	20	-	-	solution
4	1-2-1-2X	1-2-1	5	30	20	-	1	solution
4	2-1-1-1	2-1-1	0.5	30	20	-	-	solution
4	3-1-1-1	3-1-1	0.05	30	20	-	-	solution
4	3-1-1-1X	3-1-1	0.05	30	20	-	1	solution

Cycle	Selection track	Phage stock from library or selection track	Target conc. (pM)	Selection time (min)	Number of 1 min washes	Number of 15 min washes	Number of ~65 h washes	Selection method
4	4-1-1-1	4-1-1	50	4	20	-	-	solid phase
4	4-1-1-1X	4-1-1	50	4	20	-	1	solid phase
4	4-1-2-1	4-1-2	25	4	20	-	-	solid phase
4	5-1-1-1	5-1-1	2.5	4	20	-		solid phase
4	5-1-1-2	5-1-1	0.5	4	20	-	-	solid phase
4	5-1-1-2X	5-1-1	0.5	4	20	-	1	solid phase
4	6-1-1-1	6-1-1	0.5	0.17	20	-	-	solid phase

Sequencing of potential binders: Individual clones from the different selection tracks were picked for sequencing. Amplification and sequence analysis of gene fragments were performed essentially as described in Example 1.

ELISA screening of Z variants: Single colonies containing Z variants (expressed as Z variant ABD fusion proteins as described in Example 1) were randomly picked from the selected clones of the IL-17A second maturated library and grown in cultivations as described in Example 1. Preparation of the periplasmic supernatants and ELISA screenings were performed essentially as described in Example 1 with the following two exceptions. Exception 1: biotinylated hIL-17A was used at a concentration of 0.2 or 0.33 nM. Exception 2: the periplasmic fraction of Z variant Z10241 (SEQ ID NO:11), identified in selections from the first maturated library, was used as a positive control and the blank control was created by exchanging the periplasmic step with addition of PBST 0.05 %.

EC50 analysis of Z variants: A selection of IL-17A binding Z variants was subjected to an analysis of the response against a dilution series of b-hIL-17A using ELISA as described in Example 5. Biotinylated protein was added at a concentration of 10 nM and diluted stepwise 1:2 eight times followed by one 1:5 dilution down to 8 pM. As a background control, the Z variants were also assayed with no target protein added. A periplasm sample containing the previously maturated Z variant Z10241 (SEQ ID NO:11) was included as positive control. Data were analyzed using GraphPad Prism 5 and non-linear regression and EC50 values were calculated.

Results

Phage display selection of IL-17A binding Z variants from a second maturated library: Selection was performed in a total of 16 parallel tracks containing four cycles each. The selection tracks differed in target concentration, selection time, wash conditions and if the selection was performed in solution or on solid phase.

Sequencing: Randomly picked clones were sequenced. Each individual Z variant was given an identification number, Z#####, as described in Example 1. In total, 759 new unique Z variant molecules were identified.

For the 704 best performing variants in the ELISA screen below, the amino acid sequences of the 58 amino acid residues long Z variants are listed in Figure 1 and in the sequence listing as SEQ ID NO:5-10, SEQ ID NO:17-27, SEQ ID NO:32-35, SEQ ID NO:64-66 and SEQ ID NO:520-1199. The deduced IL-17A binding motifs extend from residue 8 to residue 36 in each sequence. The amino acid sequences of the 49 amino acid residues long polypeptides predicted to constitute the complete three-helix bundle within each of these Z variants extend from residue 7 to residue 55.

ELISA screening of Z variants: Clones obtained after four selection cycles were produced in 96-well plates and screened for hIL-17A binding activity using ELISA. All randomly picked clones were analyzed. 704 of the 759 unique Z variants were found to give a response of 2 x the blank controls or higher (0.22-2.2 AU) against hIL-17A at a concentration of 0.2 or 0.33 nM. Positive signals were collected for clones originating from all selection tracks. The average response of the blank controls was 0.11 AU, based on a representative set of plates.

EC50 analysis of Z variants: A subset of IL-17A binding Z variants was selected based on the result in the ELISA experiment described above (Z variants with absorbances over the response of the positive control Z10241, SEQ ID NO:11) and subjected to a target titration in ELISA format as described in Example 5. Obtained values were analyzed and their respective EC50 values were calculated (Table 9).

Table 9: Calculated EC50 values from ELISA titration analysis

Z variant	SEQ ID NO	EC50 (M)	Z variant	SEQ ID NO	EC50 (M)
Z12059	17	5.3×10^{-10}	Z12211	22	4.6×10^{-10}
Z12060	5	5.1×10^{-10}	Z12212	64	7.8×10^{-10}
Z12073	18	4.3×10^{-10}	Z12256	23	4.7×10^{-10}
Z12078	8	5.2×10^{-10}	Z12264	10	3.9×10^{-10}
Z12081	6	5.6×10^{-10}	Z12275	24	4.2×10^{-10}
Z12115	20	4.2×10^{-10}	Z12285	65	9.1×10^{-10}
Z12163	9	5.0×10^{-10}	Z12439	66	6.1×10^{-10}
Z12180	21	3.7×10^{-10}			

Example 8

In vitro characterization of a subset of maturated IL-17A binding Z variants

Materials and methods

Subcloning and production of Z variants with an N-terminal His_6-tag were performed as described in Example 2. One additional variant, His_6-Z15167 (SEQ ID NO:4), was created by site directed mutagenesis of His_6-Z10532 (SEQ ID NO:1) resulting in substitution of D in position 25 with A. Production of His_6-Z15167 was performed as described above for other Z variants.

Circular dichroism (CD) spectroscopy analysis: Purified His_6-tagged Z variants were diluted to 0.5 mg/ml in PBS. For each diluted Z variant, a CD spectrum at 250-195 nm was obtained at 20 °C. In addition, a variable temperature measurement (VTM) was performed to determine the melting temperature (Tm). In the VTM, the absorbance was measured at 221 nm while the temperature was raised from 20 to 90 °C, with a temperature slope of 5 °C/min. A new CD spectrum was obtained at 20 °C after the heating procedure in order to study the refolding ability of the Z variants. The CD measurements were performed on a Jasco J-810 spectropolarimeter (Jasco Scandinavia AB) using a cell with an optical path length of 1 mm.

IL-17 binding ELISA screening: 96-well half area plates (Costar, 3690) were coated overnight at 4 °C with hIL-17A at 1 µg/ml in PBS in a volume of 50 µl/well. On the day of analysis, the plate was rinsed twice in tap water and then blocked with PBS + 2 % BSA (Sigma) for 2 h. Z10241 (SEQ ID NO:11) was used as a standard and was titrated in a 3-fold dilution series (300-0.005

ng/ml) and the other Z variants were added in four different dilutions to the coated ELISA plate (50 µl/well) and incubated for 1.5 h at RT. The plate was washed 4 times in an automated ELISA washer and 2 µg/ml (50 µl/well) of a goat anti-Z antibody was added. After 1 h of incubation, the plate was washed and 50 µl of anti-goat IgG-HRP (DAKO) diluted 5000 times was added per well. The plate was developed after another 1 h incubation, washed with 50 µl TMB (Thermo Fisher, 34021) per well and the reaction was stopped with 50 µl 2 M H_2SO_4. The plates were read in a multi label reader (Victor^3, Perkin Elmer).

Biacore kinetic analysis: Kinetic constants (k_{on} and k_{off}) and affinities (K_D) for human IL-17A were determined for 27 His_6-tagged Z variants. The hIL-17A was immobilized in the flow cell on the carboxylated dextran layer of a CM5 chip surface (GE Healthcare, cat. no. BR100012). The immobilization was performed using amine coupling chemistry according to the manufacturer's protocol and using HBS-EP (0.01 M HEPES pH 7.4, 0.15 M NaCl, 3 mM EDTA, 0.005 % v/v surfactant P20, GE Healthcare, cat. no. BR100188) as running buffer. One flow cell surface on the chip was activated and deactivated for use as blank during analyte injections. In the kinetic experiment, HBS-EP was used as running buffer and the flow rate was 50 µl/min. The analytes, i.e. the Z variants, were each diluted in HBS-EP buffer to final concentrations of 100 nM, 20 nM and 4 nM and injected for 4 min, followed by dissociation in running buffer for 8 min. After 8 min dissociation, the surfaces were regenerated with two injections of 10 mM HCl. Kinetic constants were calculated from the sensorgrams using the Langmuir 1:1 model of BiaEvaluation software 4.1 (GE Healthcare).

Biacore binding specificity analysis: The interactions of three His_6-tagged IL-17A binding Z variants (Z10508 (SEQ ID NO:2), Z10532 (SEQ ID NO:1) and Z15167 (SEQ ID NO:4)) with hIL-17A (SEQ ID NO:1226), hIL-17F (SEQ ID NO:1228; R&D Systems, cat. no. 1335-IL/CF) and the human IL-17A/F heterodimer (R&D Systems, cat. no. 5194-IL-025/CF) were analyzed in a Biacore 2000 instrument. The three different IL-17 variants were immobilized in the flow cells on the carboxylated dextran layer of a CM5 chip surface. The immobilization was performed using amine coupling chemistry according to the manufacturer's protocol and using HBS-EP as running buffer. One flow cell surface on the chip was activated and deactivated for use as blank during analyte injections. In the binding experiment, HBS-EP was used as running buffer and the flow rate was 50 µl/min. The analytes, i.e.

the Z variants, were each diluted in HBS-EP running buffer to final concentrations of 4, 20, 100 and 500 nM and injected for 4 min. After 15 min of dissociation, the surfaces were regenerated with four injections of 10 mM HCl. The results were analyzed using the BiaEvaluation software.

Blocking of IL-17A induced IL-6 production in the NHDF assay: The NHDF assay and quantification by the IL-6 specific ELISA was performed essentially as described in Example 3. In brief, on the day before the experiment, 5000 cells were seeded per well into a half area 96-well culture plates in 100 µl. On the day of the experiment, dilutions of 36 IL-17A specific Z variants were prepared in a separate 96-well plate. The Z variants were titrated in three-fold steps from 4690 nM to 0.08 nM in medium containing 0.9 nM hIL-17A. A standard curve of hIL-17A (6.2-0.0001 nM) was prepared, as well as controls containing medium with 0.9 nM hIL-17A or medium alone.

Results

CD analysis: The CD spectra determined for the IL-17A binding Z variants with a His_6 tag showed that each had a α-helical structure at 20 °C. The results of the variable temperature measurements, wherein melting temperatures (Tm) were determined, are shown in Table 10. Reversible folding was seen for all the IL-17A binding Z variants when overlaying spectra measured before and after heating to 90 °C.

Analysis of IL-17A binding capacity by ELISA: Purified His_6-tagged Z variant molecules from the first and second maturation round were screened for their capacity to bind IL-17A in an ELISA assay. The results are shown in Figure 3 as percent binding capacity compared to the variant Z10241.

Biacore kinetic analysis: The interactions of 28 His_6-tagged IL-17A-binding Z variants with hIL-17A were analyzed in a Biacore instrument by injecting various concentrations of the Z variants over a surface containing immobilized IL-17A. A summary of the kinetic parameters (K_D, k_a (k_{on}) and k_d (k_{off})) for binding of the Z variants to hIL-17A using a 1:1 interaction model is given in Table 11.

Table 10: Melting temperatures (Tm)

Analyte	SEQ ID NO of Z variant	Tm (°C)	Analyte	SEQ ID NO of Z variant	Tm (°C)
His6-Z10241	11	48	His6-Z12081	6	50
His6-Z10433	28	56	His6-Z12115	20	51
His6-Z10462	12	51	His6-Z12163	9	54
His6-Z10508	2	54	His6-Z12180	21	51
His6-Z10532	1	57	His6-Z12192	32	45
His6-Z10534	13	41	His6-Z12211	22	49
His6-Z10566	14	51	His6-Z12256	23	47
His6-Z10675	15	52	His6-Z12264	10	54
His6-Z10681	29	52	His6-Z12275	24	46
His6-Z10718	16	48	His6-Z12283	25	45
His6-Z10722	30	51	His6-Z12289	33	51
His6-Z10859	31	52	His6-Z12344	26	49
His6-Z10863	3	51	His6-Z12481	27	49
His6-Z12059	17	50	His6-Z12498	34	48
His6-Z12060	5	52	His6-Z12522	35	51
His6-Z12073	18	49	His6-Z12634	7	50
His6-Z12077	19	52	Z10241-His6	11	47
His6-Z12078	8	51	His6-Z15167	4	57
			Z10199	1217	56

Biacore binding specificity analysis: The binding of three His_6-tagged IL-17A binding Z variants (Z10508, Z10532 and Z15167) to hIL-17A, hIL-17F and hIL-17A/F were tested in a Biacore instrument by injecting the Z variants over surfaces containing the IL-17 variants. The ligand immobilization levels on the surfaces were 657 RU, 977 RU and 770 RU of IL-17A, IL-17F and IL-17A/F, respectively. All tested Z variants showed binding to human IL-17A and weaker binding to IL-17A/F, whereas no binding to IL-17F could be detected. The resulting curves, from which responses from a blank surface were subtracted, are displayed in Figure 4. Z15167 showed the fastest association curve to human IL-17A.

Blocking of IL-17A induced IL-6 production in the NHDF assay: Purified His_6-tagged Z variants from the first and second maturation rounds were screened for their capacity to block IL-17A induced IL-6 production in the NHDF assay. Results from the NHDF assay showed that all tested maturated binders had an increased IL-17A specific blocking capacity compared to the primary binder His_6-Z06282. A graph displaying typical inhibition profiles of a selection of binders from the first maturation library are shown in Figure 5,

and the calculated IC50 values for all analysed binders are shown in Table 12.

Table 11: Kinetic parameters for binding of Z variants to hIL-17A

Analyte	SEQ ID NO of Z variant	k_a (1/Ms)	k_d (1/s)	K_D (M)
His6-Z10241	11	5.2×10^{5}	1.2×10^{-3}	2.2×10^{-9}
His6-Z10433	28	4.7×10^{5}	3.1×10^{-3}	6.4×10^{-9}
His6-Z10508	2	5.1×10^{5}	2.0×10^{-3}	4.0×10^{-9}
His6-Z10532	1	6.2×10^{5}	1.5×10^{-3}	2.4×10^{-9}
His6-Z10566	14	6.1×10^{5}	5.7×10^{-3}	9.3×10^{-9}
His6-Z10675	15	5.7×10^{5}	1.1×10^{-3}	1.9×10^{-9}
His6-Z10681	29	6.7×10^{5}	3.5×10^{-3}	5.2×10^{-9}
His6-Z10859	31	5.6×10^{5}	6.8×10^{-3}	1.2×10^{-8}
His6-Z10863	3	8.3×10^{5}	2.5×10^{-3}	3.0×10^{-9}
His6-Z12060	5	7.5×10^{5}	3.3×10^{-3}	4.3×10^{-9}
His6-Z12073	18	4.9×10^{5}	1.2×10^{-3}	2.3×10^{-9}
His6-Z12077	19	6.5×10^{5}	2.0×10^{-3}	3.1×10^{-9}
His6-Z12078	8	4.5×10^{5}	8.1×10^{-4}	1.8×10^{-9}
His6-Z12081	6	6.2×10^{5}	3.8×10^{-3}	6.2×10^{-9}
His6-Z12163	9	7.3×10^{5}	1.6×10^{-3}	2.2×10^{-9}
His6-Z12192	32	4.6×10^{5}	5.6×10^{-3}	1.2×10^{-8}
His6-Z12211	22	5.8×10^{5}	1.4×10^{-3}	2.4×10^{-9}
His6-Z12256	23	3.5×10^{5}	1.2×10^{-3}	3.4×10^{-9}
His6-Z12264	10	6.0×10^{5}	5.5×10^{-4}	9.3×10^{-10}
His6-Z12275	24	5.2×10^{5}	1.1×10^{-3}	2.0×10^{-9}
His6-Z12283	25	5.5×10^{5}	1.8×10^{-3}	3.3×10^{-9}
His6-Z12289	33	6.2×10^{5}	3.3×10^{-3}	5.3×10^{-9}
His6-Z12344	26	7.1×10^{5}	6.6×10^{-4}	9.2×10^{-10}
His6-Z12481	27	5.2×10^{5}	8.9×10^{-4}	1.7×10^{-9}
His6-Z12498	34	6.0×10^{5}	2.3×10^{-3}	3.8×10^{-9}
His6-Z12522	35	7.1×10^{5}	4.4×10^{-3}	6.2×10^{-9}
His6-Z12634	7	6.9×10^{5}	4.3×10^{-3}	6.3×10^{-9}
His6-Z15167	4	1.3×10^{6}	1.4×10^{-3}	1.1×10^{-9}

Table 12: IC50 values for maturated Z-variants

Analyte	SEQ ID NO of Z variant:	IC50 (nM)	Analyte	SEQ ID NO of Z variant:	IC50 (nM)
His6-Z10241	11	5.3	His6-Z12081	6	8.1
His6-Z10433	28	14	His6-Z12115	20	3.0
His6-Z10462	12	6.6	His6-Z12163	9	7.0
His6-Z10508	2	5.7	His6-Z12180	21	4.3
His6-Z10532	1	6.4	His6-Z12192	32	28
His6-Z10534	13	6.5	His6-Z12211	22	2.9
His6-Z10566	14	9.6	His6-Z12256	23	4.4
His6-Z10675	15	5.3	His6-Z12264	10	4.4
His6-Z10681	29	25	His6-Z12275	24	4.8
His6-Z10718	16	28	His6-Z12283	25	6.9
His6-Z10722	30	35	His6-Z12289	33	18
His6-Z10859	31	26	His6-Z12344	26	4.8
His6-Z10863	3	8.5	His6-Z12481	27	3.0
His6-Z12059	17	3.7	His6-Z12498	34	11
His6-Z12060	5	7.9	His6-Z12522	35	10
His6-Z12073	18	4.0	His6-Z12634	7	9.8
His6-Z12077	19	5.5	Z10241-His6	11	3.3
His6-Z12078	8	4.5			

Example 9

Production of IL-17 binding Z-ABD-Z polypeptides

IL-17A is a homodimeric cytokine that possesses two receptor binding sites. It was speculated that a polypeptide comprising two moieties of an IL-17A binding Z variant of the present disclosure would block IL-17A more efficiently than a polypeptide comprising one such moiety. This Example describes the general procedure for subcloning and production of polypeptides comprising two Z variants in fusion with the albumin binding domain variant PP013 (SEQ ID NO:1224) in the general format Z-[L1]-ABD-[L2]-Z where [L1] and [L2] are linkers separating the Z and ABD moieties.

Materials and methods

Subcloning of Z-[L1]-ABD-[L2]-Z polypeptides with different [L1] and [L2] linker lengths: The DNA of Z06282 (SEQ ID NO:1206), Z10241 (SEQ ID NO:11) and Z10532 (SEQ ID NO:1) were amplified from the library vector pAY02592 by PCR using Pfu Turbo DNA polymerase (Agilent Technologies,

cat. no. 600254) together with suitable primer pairs. The Z-[L1]-ABD-[L2]-Z constructs were generated by ligation of DNA encoding each moiety into the expression vector pET26b(+) (Novagen, Madison,WI) in three subsequent cloning steps using T4 DNA ligase (Fermentas, cat.no. EL0011). DNA encoding the three moieties were separated by DNA encoding hybridized linkers with different number of repeats of $(GGGGS)_n$, flanked by restriction enzyme sites. The constructs encoded by the expression vectors were Z#####-[GAP-$(G_4S)_n$-TS]-PP013-[GT-$(G_4S)_n$-PR]-Z#####, where each n individually is 1-4, and as further specified in Table 13.

Table 13: Dimeric Z variants fused to ABD via different [L1] and [L2] lengths

Designation	SEQ ID NO	Z-[L1]-ABD-[L2]-Z polypeptide
ZAZ3174	1233	Z06282-[GAP-$(G_4S)_4$-TS]-PP013-[GT-$(G_4S)_4$-PR]-Z06282
ZAZ3175	1234	Z06282-[GAP -$(G_4S)_3$-TS]- PP013-[GT-$(G_4S)_3$-PR]-Z06282
ZAZ3176	1235	Z06282-[GAP -$(G_4S)_2$-TS]- PP013-[GT-$(G_4S)_2$-PR]-Z06282
ZAZ3236	1240	Z06282-[GAP-G_4S-TS]- PP013-[GT-G_4S-PR]-Z06282
ZAZ3237	1241	Z06282-[GAP-G_4S-TS]- PP013-[GT-$(G_4S)_2$-PR]-Z06282
ZAZ3220	1236	Z10241-[GAP-$(G_4S)_4$-TS]- PP013-[GT-$(G_4S)_4$-PR]-Z10241
ZAZ3221	1237	Z10532-[GAP-$(G_4S)_4$-TS]- PP013-[GT-$(G_4S)_4$-PR]-Z10532

Restriction sites (I)-(IV) in DNA encoding Z#####-[(I)-(G_4S)n-(II)]-PP013-[(III)-(G_4S)n-(IV)]-Z##### are cleavable with restriction enzymes *AscI* (I), *SpeI* (II), *KpnI* (III) and *SacII* (IV), respectively

Subcloning of Z-[L1]-ABD-[L2]-Z polypeptides with a minimal [L1] linker: DNA encoding additional dimeric Z variants comprising Z06282 (SEQ ID NO:1206) but with a minimal linker [L1] were generated using standard molecular biology techniques. The constructs encoded by the expression vectors were Z06282-VDGS-PP013-GT-$(G_4S)_n$-PR-Z06282 and as further specified in Table 14.

The genes encoding Z12876 (SEQ ID NO:1218), Z14253 (SEQ ID NO:1219), Z14254 (SEQ ID NO:1220) and Z14255 (SEQ ID NO:1221) (corresponding to Z10241 (SEQ ID NO:11), Z10532 (SEQ ID NO:1), Z10508 (SEQ ID NO:2) and Z10863 (SEQ ID NO:3), respectively, but starting with the amino acid residues AE instead of VD) were amplified by PCR using Pfu Turbo DNA polymerase together with suitable primer pairs. The Z-[L1]-ABD-[L2]-Z constructs were generated by ligation of each fragment into the expression vector pET26b(+) in three subsequent cloning steps using T4 DNA ligase. DNA encoding the three moieties were separated by linkers further modified by site-directed mutagenesis using standard molecular

biology techniques. The constructs encoded by the expression vectors were Z####-[VDGS]-PP013-[GT-G_4S-PK]-Z#### and Z#####-[ASGS]-PP013-[GT-G_4S]–Z#####, and as further specified in Table 14.

Table 14: Dimeric Z variants fused to ABD via a minimal [L1] linker

Designation	SEQ ID NO	Z-[L1]-ABD-[L2]-Z polypeptide	Mutations
ZAZ3234	1238	Z06282-[VDGS]-PP013-GT-G_4S-PR-Z06282	
ZAZ3235	1239	Z06282-[VDGS]-PP013-GT-$(G_4S)_2$-PR-Z06282	
ZAZ3269	1242	Z12876-[VDGS]-PP013-[GT-G_4S-P**K**]-Z12876	R117**K**
ZAZ3270	1243	Z12876-[**AS**GS]-PP013-[GT-G_4S]-Z12876	V59**A**, D60**S**, Δ116P, Δ117R
ZAZ3363	1244	Z14253-[**AS**GS]-PP013-[GT-G_4S]-Z14253	V59**A**, D60**S**, Δ116P, Δ117R
ZAZ3364	1245	Z14254-[**AS**GS]-PP013-[GT-G_4S]-Z14254	V59**A**, D60**S**, Δ116P, Δ117R
ZAZ3365	1246	Z14255-[**AS**GS]-PP013-[GT-G_4S]-Z14255	V59**A**, D60**S**, Δ116P, Δ117R
ZAZ3422	1247	Z15166-[**AS**GS]-PP013-[GT-G_4S]-Z15166	D25A in both Z14253 moieties in ZAZ3363

Δ: deletion of the indicated amino acid residue

Cultivation: *E. coli* BL21(DE3) cells (Novagen) were transformed with plasmids containing the gene fragment of each respective Z-ABD-Z polypeptide and cultivated at 37 °C in 800 or 1000 ml of TSB-YE medium supplemented with 50 µg/ml kanamycin. In order to induce protein expression, IPTG was added to a final concentration of 0.2 mM at OD_{600} = 2 and the cultivation was incubated at 37 °C for another 5 h. The cells were harvested by centrifugation.

Purification of IL-17A binding Z-ABD-Z polypeptides: Cell pellets were re-suspended in TST buffer (25 mM Tris-HCl, 1 mM EDTA, 200 mM NaCl, 0.05 % Tween 20, pH 8.0) supplemented with Benzonase® (Merck). After cell disruption by sonication and clarification by centrifugation, each supernatant was applied onto a column packed with agarose and immobilized with an anti-ABD ligand (produced in-house). After washing with TST buffer and 5 mM NH_4Ac pH 5.5 buffer, the Z-ABD-Z polypeptides were eluted with 0.1 M HAc. Acetonitrile (ACN) was added to eluted fractions to a final concentration of 10 % and the samples were loaded on SOURCE 15RPC columns (GE Healthcare), previously equilibrated with RPC solvent A (0.1 % TFA, 10 %

ACN, 90 % water). After column wash with RPC solvent A, bound proteins were eluted with a linear gradient from RPC solvent A to RPC solvent B (0.1 % TFA, 80 % ACN, 20 % water). Fractions containing pure Z-ABD-Z polypeptides were identified by SDS-PAGE analysis and pooled. After the RPC purification, the buffer of the pool was exchanged to PBS (2.68 mM KCl, 137 mM NaCl, 1.47 mM KH_2PO_4, 8.1 mM Na_2HPO_4, pH 7.4) using Sephadex G-25 columns (GE Healthcare). Finally, the Z-ABD-Z variants were purified on EndoTrap® red columns (Hyglos) to ensure low endotoxin content.

Protein concentrations were determined by measuring the absorbance at 280 nm, using a NanoDrop® ND-1000 spectrophotometer and the extinction coefficient of the respective protein. Purity was analyzed by SDS-PAGE stained with Coomassie Blue, and the identity of each purified Z-ABD-Z variant was confirmed by HPLC-MS analysis.

Results

Cultivation and purification: The IL-17A binding Z variants in fusion with ABD were expressed as soluble gene products in *E. coli*. SDS-PAGE analysis of each final protein preparation showed that these predominantly contained the desired IL-17A binding Z-ABD-Z polypeptide. The correct identity and molecular weight of each Z-ABD-Z polypeptide were confirmed by HPLC-MS analysis.

Example 10
Solubility of Z-ABD-Z polypeptides

The solubility of three Z-ABD-Z polypeptides in physiological buffer was investigated by consecutive concentrations of the samples using ultrafiltration, followed by concentration measurements by absorbance readings at 280 nm and visual inspection of the samples.

Materials and methods

The Z-ABD-Z polypeptides ZAZ3363 (SEQ ID NO:1244), ZAZ3364 (SEQ ID NO:1245) and ZAZ3422 (SEQ ID NO:1247) were diluted in PBS, pH 7.4, to 2.5 mg/ml. 12 Amicon Ultra centrifugal filter units with a cut-off of 3 kDa (Millipore, cat. no. UFC800324) were prerinsed with PBS by centrifugation at 4000 *g* for 10 min in a swinging bucket rotor centrifuge. The

concentrators were emptied, and 4 ml of each Z-ABD-Z polypeptide were added to a first set of three different centrifugal filter units. Centrifugation was performed at 4000 *g*, 20 °C, for 13-16 min, resulting in approximately 1 ml concentrate. A 20 µl sample was removed from each concentrate (UF sample 1) for further analysis and the rest of the sample volumes were transferred to a second set of three centrifugal filter units. The centrifugation and sample removal were repeated three times with spinning times of 8-10 min, 7 min and 13 min, respectively, (UF samples 2, 3 and 4, respectively). Absorbance readings were performed using a NanoDrop® ND-1000 Spectrophotometer and by diluting UF samples 1-4 in PBS 3, 6, 12 and 24 times, respectively. The concentrations were calculated using the theoretical extinction coefficient 1 Abs280=0.612 mg/ml (the same for all three Z-ABD-Z polypeptides). Absorbance readings of the undiluted filtrates were also performed.

Results

Concentrations determined by absorbance readings at 280 nm after each centrifugal step are shown in Table 15. No aggregates were detected by visual inspection of the concentrates. Thus, the solubility of ZAZ3363, ZAZ3364 and ZAZ3422 were determined to be at least 60 mg/ml in PBS, pH 7.4. Absorbance readings of the undiluted filtrates showed concentrations very close to 0 mg/ml.

Table 15: Concentration after consecutive concentration of Z-ABD-Z samples

Z-ABD-Z polypeptide	**SEQ ID NO**	**Concentration (mg/ml)**				**Total time of centrifugation (min)**
		UF1	**UF2**	**UF3**	**UF4**	
ZAZ3363	1244	9.6	21	36	64	44
ZAZ3364	1245	8.2	21	38	60	43
ZAZ3322	1247	9.3	20	35	64	44

Example 11
Biacore binding cross-species analysis

Materials and methods

The interaction of the Z-ABD-Z polypeptides ZAZ3363 (SEQ ID NO:1244), ZAZ3364 (SEQ ID NO:1245) and ZAZ3365 (SEQ ID NO:1246) with hIL-17A and cynomolgus monkey IL-17A (cIL-17A, SEQ ID NO:1229;

Evitria, custom order) as well as the interaction of ZAZ3220 (SEQ ID NO:1236) with hIL-17A and rhesus monkey IL-17A (rmIL-17-A, SEQ ID NO:1230; Cusabio, cat. no. CSB-EP011597MOV) were analyzed in a Biacore 2000. HSA was immobilized in the flow cell on the carboxylated dextran layer of a CM5 chip surface. The immobilization was performed using amine coupling chemistry according to the manufacturer's protocol and using HBS-EP as running buffer. The HSA immobilization levels on the surfaces were 953 RU (used for ZAZ3363, ZAZ3364 and ZAZ3365) and 493 RU (used for ZAZ3220), respectively. One flow cell surface on the chip was activated and deactivated for use as blank during analyte injections. In the binding experiments, HBS-EP was used as running buffer and the flow rate was 30 µl/min. ZAZ3363, ZAZ3364 and ZAZ3365 were diluted in HBS-EP running buffer to a final concentration of 200 nM and injected for 5 min, followed by injections of the IL-17A variants. ZAZ3220 was diluted in HBS-EP running buffer to a final concentration of 500 nM and injected for 4 min followed by injections of the IL-17A variants. hIL-17A and cIL-17A were each diluted in HBS-EP running buffer to final concentrations of 2.5, 10 and 40 nM and injected for 5 min over surfaces with ZAZ3363, ZAZ3364 and ZAZ3365 captured on HSA. After 10 min of dissociation, the surface was regenerated with two injections of 10 mM HCl. hIL-17A and rmIL-17A were diluted in HBS-EP running buffer to final concentrations of 0.1, 0.3, 0.9, 2.7, and 8.1 nM and 2.7, 8.1, 24.3, 72 and 216 nM, respectively, and injected for 6 min over surfaces with ZAZ3220 captured on HSA. After 5 min of dissociation, the surface was regenerated with two injections of 10 mM HCl. The results were analyzed using the BiaEvaluation software.

Results

Binding of hIL-17A and cIL-17A to ZAZ3363, ZAZ3364 and ZAZ3365, and hIL-17A and rmIL-17A to ZAZ3220 were tested in a Biacore instrument by injecting the Z-ABD-Z polypeptides over a surface containing HSA followed by injections of the IL-17A variants. All tested Z variants showed binding to the tested IL-17A variants, i.e. ZAZ3363, ZAZ3364 and ZAZ3365 showed binding to human and cynomolgus monkey IL-17A (Figure 6) and ZAZ3220 to human and rhesus monkey IL-17A.

Example 12
Biacore binding specificity analysis

In this Example, the specificities of two Z-ABD-Z polypeptides were tested by analysing their potential interaction with a set of proteins of the IL-17 family, with other interleukins and with other abundant plasma proteins. The same set of analyte proteins were also analyzed for their potential interaction with the ABD variant PEP07843.

Materials and methods

The interaction of ZAZ3363 (SEQ ID NO:1244) or ZAZ3422 (SEQ ID NO:1247) with panels of 24 or 12 different proteins (specified in Table 16), respectively, were analyzed in a Biacore 2000 instrument. HSA and the ABD variant PEP07843 (SEQ ID NO:1225, corresponding to PP013 (SEQ ID NO:1224) with an N-terminal extension of GSS) were immobilized on a CM5 chip surface and a blank surface was prepared as described in Example 11. The ligand immobilization levels on the surfaces were 1315 RU and 99 RU of HSA and PEP07843, respectively, for the chip used in ZAZ3363 runs, and 791 RU and 100 RU of HSA and PEP07843, respectively, for the chip used in ZAZ3422 runs. In the binding experiment, HBS-EP was used as running buffer and the flow rate was 30 µl/min. ZAZ3363 and ZAZ3422 were diluted in HBS-EP or HBS-EP supplemented with 500 mM NaCl to a final concentration of 200 nM and injected for 7 min followed by injections of the analytes. The analytes, i.e. the panels of 24 or 12 different proteins, were each diluted in HBS-EP or HBS-EP supplemented with 500 mM NaCl to final concentrations of from 0.4 to 250 nM and injected for 5 min. After 7 (ZAZ3363) or 10 (ZAZ3422) min of dissociation, the surfaces were regenerated with four (ZAZ3363) or five (ZAZ3422) injections of 10 mM NaOH and two injections of 10 mM HCl. The results were analyzed using the BiaEvaluation software.

Table 16: Analyte proteins tested with ZAZ3363 and ZAZ3422

First injection		**Second injection**			
ZAZ3363 (200 nM)	**ZAZ3422 (200 nM)**	**Analyte protein**	**Cat. No.**	**Analyte conc. (nM)**	**Buffer for sample dilution**
Yes	Yes	**hIL-17A**[1]	200-17	2, 10, 50	HBS-EP and HBS-EP + NaCl
Yes	Yes	**hIL-17A/F**[2]	5194-IL-025/CF	50, 250	HBS-EP + NaCl

Yes	Yes	**hIL-17B**[2]	1248-IB-025/CF	50, 250	HBS-EP + NaCl
Yes	Yes	**hIL-17C**[2]	1234-IL-025/CF	50, 250	HBS-EP
Yes	Yes	**hIL-17D**[2]	1504-IL-025/CF	50, 250	HBS-EP + NaCl
Yes	Yes	**hIL-17E**[2]	1258-IL-025/CF	50, 250	HBS-EP
Yes	Yes	**hIL-17F**[2]	1335-IL/CF	50, 250	HBS-EP + NaCl
Yes	Yes	**hIL-1beta**[1]	200-1B	50, 250	HBS-EP
Yes	Yes	**hIL-6**[2]	206IL/CF	50, 250	HBS-EP
Yes	Yes	**hIL23**[2]	1290-IL	50, 250	HBS-EP
Yes	Yes	**hGM-CSF**[2]	215-GM/CF	50, 250	HBS-EP
Yes	Yes	**IgG (RoActemra)**[3]	ATC L04AC07	50, 250	HBS-EP
Yes	No	**IgA**[4]	P80-102	50, 250	HBS-EP
Yes	No	**IL-17RA**[2]	177-IR	50, 250	HBS-EP
Yes	No	**IL-1R1**[2]	269-1R/CF	50, 250	HBS-EP
Yes	No	**Alpha-2-HS-glycoprotein (AHSG Human HEK)**[5]	PRO-1644	50, 250	HBS-EP
Yes	No	**Haptoglobin Human (seems to be beta chain)**[5]	PRO-567	50, 250	HBS-EP
Yes	No	**Alpha-1-antitrypsin (SERPINA1 Human)**[5]	PRO-529	50, 250	HBS-EP
Yes	No	**Human a-2 macroglobulin**[6]	10952-H08B	50, 250	HBS-EP
Yes	No	**Human Hemopexin / HPX Protein**[6]	10870-H08H	50, 250	HBS-EP
Yes	No	**AMBP / Alpha 1 microglobulin**[6]	13141-H08H1	50, 250	HBS-EP
Yes	No	**Beta-2-microglobulin / B2M**[6]	11976-H08H	50, 250	HBS-EP
Yes	No	**Transthyretin / TTR / Prealbumin / PALB Protein**[6]	12091-H08H	50, 250	HBS-EP
Yes	No	**holo-Transferrin**[7]	T4132	50, 250	HBS-EP
Yes	No	**IL-17RA**[2]	177-IR	50, 250	HBS-EP
Yes	No	**IL-1R1**[2]	269-1R/CF	50, 250	HBS-EP

Suppliers: [1]Peprotech; [2]R&D Systems; [3]Roche/Apoteket AB; [4]Bethyl; [5]ProSpec; [6]Sino Biological Inc; [7]Sigma

Results

The specificity of ZAZ3363 and ZAZ3422 was tested in a Biacore instrument by investigating their interaction with 24 or 12 analyte proteins, respectively. The Z-ABD-Z polypeptides were injected over surfaces containing HSA followed by injection of the analyte proteins. The only interactions detected for ZAZ3363 and ZAZ3422 were strong binding by hIL-17A and weaker binding by hIL-17A/F, as expected and in line with the results presented in Example 8. The analyte proteins were also assessed for their potential interaction with the ABD variant PEP07843, but no interactions were detected. Thus, the Z-ABD-Z polypeptides appear to be highly specific.

Example 13
Kinetic measurements of Z-ABD-Z, IL-17A and HSA complexes using KinExA®

Technical limitations of SPR to accurately determine kinetic parameters for high affinity interactions and the higher complexity of determining the affinity between two dimeric targets by SPR warranted the use of Kinetic Exclusion Assay (KinExA®) technology to further analyze the binding of Z-ABD-Z polypeptides in complex with HSA to IL-17A, as well as the binding of Z-ABD-Z polypeptides alone, or in complex with IL-17A, to HSA. The KinExA® measures the equilibrium binding affinity and kinetics between unmodified molecules in solution phase (Darling and Brault, 2004. Assay and Drug Dev Tech 2(6):647-657)

Materials and methods

The Z-ABD-Z polypeptides ZAZ3220 (SEQ ID NO:1236), ZAZ3363 (SEQ ID NO:1244) and ZAZ3422 (SEQ ID NO:1247), as well as HSA (Novozymes, cat. no. 230-005), human IL-17A (Peprotech, cat. no. 200-17), biotinylated (as described in Example 1) human IL-17A, mouse monoclonal anti-HSA antibody (Abcam, cat. no. 10241) and an in house produced goat polyclonal anti-Z antibody were sent to Sapidyne Instruments Inc (Boise, Idaho, USA) who performed the KinExA® mesurements and analysis.

Binding of Z-ABD-Z/HSA to IL-17A: For determination of the affinity, i.e. K_D, the respective Z-ABD-Z polypeptide, in complex with HSA, were used

as a constant binding partner (CBP) and IL-17A was used as titrant. Data analysis was performed using the KinExA® Pro software and applying a least squares analysis to fit the optimal solutions for the K_D and the Active Binding site Concentration (ABC) to a curve representative of a 1:1 reversible bi-molecular interaction.

For determination of k_a, the direct binding curve analysis was applied, using the same immobilized IL-17A as the capture reagent for kinetic experiments as for equilibrium experiments. The amount of free Z-ABD-Z/HSA in the sample was measured pre-equilibrium, yielding data points that monitored the decrease in free Z-ABD-Z/HSA as the sample moved toward equilibrium.

Binding of Z-ABD-Z and Z-ABD-Z/IL-17A to HSA: The Z-ABD-Z polypeptide ZAZ3363 was further analyzed for binding to HSA in the presence or absence of IL-17A. For determination of K_D, ZAZ3363, free or in complex with IL-17A, was used as a constant binding partner (CBP) and HSA was used as titrant. Data analysis was performed using the KinExA® Pro software as described above.

For determination of k_a, the direct binding curve analysis was applied, using the same immobilized HSA as the capture reagent for kinetic experiments as for equilibrium experiments. The amount of ZAZ3363/IL-17A, in the sample was measured pre-equilibrium, yielding data points that monitored the decrease in free ZAZ3363/IL-17A as the sample moved toward equilibrium.

Results

In a first set of KinExA® measurements, the Z-ADB-Z polypeptides ZAZ3220, ZAZ3363 and ZAZ3422, respectively, in complex with HSA were shown to bind IL-17A with an exceptionally high affinity, with K_D values in the subpicomolar to femtomolar range. The calculated kinetic parameters when assuming a monovalent binding between these Z-ABD-Z polypeptides and dimeric IL-17A are shown in Table 17.

In a second set of KinExA® measurements, the interaction between ZAZ3363, free or in complex with IL-17A, and HSA was measured. The calculated kinetic parameters from these analyses are shown in Table 18. The affinity of ZAZ3363 for HSA was not significantly affected by the presence of IL-17A.

To summarize, measurements using KinExA® technology indicated an exceptionally high affinity of Z-ABD-Z polypeptides for IL-17A. The measured K_D of < 0.33 pM is superior to the reported affinities for two of the clinically most advanced comparators secukinumab (K_D = 122 pM; WO2006/013107 and WO2012/125680) and ixekizumab (K_D= 2 pM; WO2007/070750). In addition, simultaneous binding to both IL-17A and albumin was demonstrated, i.e. both binding functions are intact in the Z-ABD-Z fusion protein.

Table 17: Kinetic parameters for Z-ABD-Z polypeptides binding to IL-17A

CBP	**SEQ ID NO**	**ka[a] [*] ($M^{-1}s^{-1}$)**	**kd (s^{-1})**	**K_D [*] (M)**
ZAZ3220/HSA	1236	1.35×10^{7} [1.25×10^{7} - 1.46×10^{7}]	1.51×10^{-7}	$<6.5 \times 10^{-14}$ [**]
ZAZ3363/HSA	1244	4.78×10^{6} [5.64×10^{6} - 4.04×10^{6}]	1.55×10^{-6}	3.23×10^{-13} [1.54×10^{-13} – 5.54×10^{-13}]
ZAZ3422/HSA	1247	7.80×10^{6} [6.37×10^{6} - 9.56×10^{6}]	6.08×10^{-7}	7.85×10^{-14} [1.63×10^{-14} – 1.73×10^{-13}]

* 95% confidence interval

** 95% confidence interval for K_D was not resolved

Table 18: Kinetic parameters for a Z-ABD-Z polypeptide binding to HSA

CBP	**SEQ ID NO**	**ka [*] ($M^{-1}s^{-1}$)**	**kd (s^{-1})**	**K_D [*] (M)**
ZAZ3363	1244	n.d.	n.d.	4.85×10^{-11} [3.23×10^{-11} - 6.87×10^{-11}]
ZAZ3363/IL-17A	1244	1.21×10^{6} [9.35×10^{5} - 1.50×10^{6}]	3.56×10^{-5}	2.94×10^{-11} [1.72×10^{-11} - 4.64×10^{-11}]

* 95% confidence interval

Example 14

Characterization of Z-ABD-Z polypeptides in the NHDF assay

Materials and methods

Blocking of IL-17A induced IL-6 production in NHDF assay: NHDF cells (Lonza, cat.no. CC-2511) were cultured in fibroblast basal medium (Lonza, cat.no CC-3132) supplied with growth promoting factors (Lonza, cat.no. CC-5034). On the day before the experiment, 5000 cells per well were seeded into half area 96 well culture plates (Greiner, cat.no. 675180) in 100 µl. On the day of the experiment, dilutions of IL-17A specific Z-ABD-Z polypeptides with different linker lengths between the Z and ABD moieties (ZAZ3174 (SEQ ID NO:1233), ZAZ3175 (SEQ ID NO:1234), ZAZ3176 (SEQ ID NO:1235), ZAZ3220 (SEQ ID NO:1236), ZAZ3221 (SEQ ID NO:1237), ZAZ3234 (SEQ ID NO:1238), ZAZ3235 (SEQ ID NO:1239), ZAZ3236 (SEQ ID NO:1240), ZAZ3237 (SEQ ID NO:1241), ZAZ3269 (SEQ ID NO:1242) and ZAZ3270 (SEQ ID NO:1243)) were prepared in a separate 96-well plate. The Z-ABD-Z polypeptides were titrated in three-fold steps from 190 nM to 0.003 nM in medium containing 0.9 nM hIL-17A and 8 µM HSA. A standard IL-17A curve was also prepared (6.2-0.0001 nM), as well as controls containing medium with 0.9 nM IL-17A or medium alone. The medium in the plate with NHDF cells cultured overnight was discarded and 100 µl/well of the sample was transferred to the cell plate, which was placed in an incubator at 37 °C for 18-24 h. The next day, the IL-6 content in supernatants was quantified using IL-6 specific ELISA as described in Example 3. Additional Z-ABD-Z polypeptides (ZAZ3363 (SEQ ID NO:1244), ZAZ3364 (SEQ ID NO:1245), ZAZ3365 (SEQ ID NO:1246) and ZAZ3422 (SEQ ID NO:1247)) were analyzed in subsequent NHDF assays essentially as described above, but using an NHDF cell line from ATCC (cat. no. PSC-201-012). The blocking capacities of these Z-ABD-Z polypeptides were also analyzed after incubation of the polypeptides at 40 °C for 2 and 4 weeks.

Results

Z-ABD-Z polypeptides were investigated for their capacity to block IL-17A induced IL-6 production in the NHDF assay. First, it was seen that the Z-ABD-Z format increased the blocking capacity significantly compared to the monomeric His_6-Z format, as shown in Figure 7A where inhibitory curves for

His_6-Z10241 and ZAZ3220 (comprising Z10241) are displayed. The shape of the curve for ZAZ3220 suggests that the limit of detection for this cell assay is reached, with a one-to-one inhibition effect of the ZAZ3220, and it is likely that the Z-ABD-Z polypeptide has an even better inhibitory effect than can be appreciated from this experiment. It is contemplated that the potency of ZAZ3220 is increased to the assay limit due to the strong avidity effect obtained by binding the homodimeric IL-17A. Second, a comparison of Z-ABD-Z polypeptides with different linker lengths and comprising the Z variants Z06282 (SEQ ID NO:1206) and Z12876 (SEQ ID NO:1218) revealed that the length of the linker had a minor effect on the blocking capacity. A set of Z-ABD-Z polypeptides comprising Z06282 with different linker lengths is displayed in Figure 7B. Additional Z-ABD-Z polypeptides, ZAZ3363, ZAZ3364, ZAZ3365 and ZAZ3422, were analyzed in subsequent NHDF assays, also after incubation of the Z-ABD-Z polypeptides at 40 °C for two and four weeks. The IL-17A inhibitory capacity was retained even after four weeks' incubation at 40 °C. Calculated IC50 values, reflecting the capacity of different Z-ABD-Z polypeptides to inhibit IL-17A, are summarized in Table 19. These IC50 values are more than three-fold lower than the reported hIL-6 production neutralizing activity (IC50=2.1±0.1 nM) of the IL-17A inhibiting monoclonal antibody secukinumab, AIN457, (WO2006/013107 and WO2012/125680) currently in clinical development.

Table 19: Calculated IC50 values from NHDF assays

Z-ABD-Z polypeptide	SEQ ID NO	Incubation at 40 °C (weeks)	IC50 (nM)
ZAZ3174	1233	n.a.	0.63
ZAZ3175	1234	n.a.	0.56
ZAZ3176	1235	n.a.	0.50
ZAZ3220	1236	n.a.	0.27
ZAZ3221	1237	n.a.	0.39
ZAZ3234	1238	n.a.	0.66
ZAZ3235	1239	n.a.	0.60
ZAZ3236	1240	n.a.	0.54
ZAZ3237	1241	n.a.	0.49
ZAZ3269	1242	n.a.	0.42
ZAZ3270	1243	n.a.	0.41
ZAZ3363	1244	0	0.38
ZAZ3363	1244	2	0.25
ZAZ3363	1244	4	0.49
ZAZ3364	1245	0	0.20
ZAZ3364	1245	2	0.40
ZAZ3364	1245	4	0.47
ZAZ3365	1246	0	0.45
ZAZ3365	1246	2	0.34
ZAZ3365	1246	4	0.55
ZAZ3422	1247	0	0.38
ZAZ3422	1247	2	0.45
ZAZ3422	1247	4	0.42

Example 15

In vivo neutralization of hIL-17A

Human IL-17A is able to bind to and stimulate the mouse IL-17 receptor, leading to elevation and subsequent secretion of mouse KC (CXCL1) chemokine.

Materials and methods

In vivo neutralization of hIL-17A in the KC mouse model: Dose ranging experiments were performed to identify the optimal dose of human IL-17A for induction of mouse KC. These experiments revealed that a 150 µg/kg dose of human IL-17A induced a suitable level of KC in mouse serum collected 2 h

after IL-17A administration. ZAZ3174 (SEQ ID NO:1233) and ZAZ3220 (SEQ ID NO:1236) were analyzed in this model at two different occasions. In the first experiment, ZAZ3174 was administered s.c. to mice at three different doses; 0.25, 2.5 and 25 mg/kg, 9 h prior to a subcutaneous injection of human IL-17A. The mice were sacrificed 2 h post administration of human IL-17A, and KC levels were determined by ELISA using a commercially available kit according to the manufacturer's instruction (KC Quantikine; R&D Systems, cat no. D1700). In the second experiment, ZAZ3220 was administered s.c. to mice at three different doses, 0.05, 0.1, 0.4 mg/kg, 9 h prior to a subcutaneous injection of human IL-17A. The mice were sacrificed 2 h post administration of human IL-17A, and KC levels were determined by ELISA as above.

Results

In vivo neutralization of hIL-17A in the KC mouse model: The assayed Z-ABD-Z polypeptides block the ability of human IL-17A to stimulate the mouse IL-17 receptor, leading to inhibition of an elevation of mouse KC, in a dose dependent manner. ZAZ3174 at a dose of 2.5 mg/kg under the conditions described, blocked the induction of KC completely, as shown in Figure 8A. The second experiment revealed that the Z-ABD-Z polypeptide ZAZ3220, comprising an affinity matured Z variant, blocked the IL-17A induced KC-response completely at a dose of 0.4 mg/kg (Figure 8B). This corresponds to a 6-fold enhanced *in vivo* blocking effect compared to ZAZ3174. 72 % inhibition was obtained with 0.1 mg/kg ZAZ3220.

Example 16

In vivo pharmacokinetics of Z-ABD-Z polypeptides in rats

This Example describes two separate experiments in which the pharmacokinetic parameters in rat were determined for two different Z-ABD-Z polypeptides following subcutaneous (s.c.) and/or intravenous (i.v.) injections.

Materials and methods

In a first experiment, ZAZ3220 (SEQ ID NO:1236) formulated in PBS was administered i.v. (n=3) to Sprague Dawley (SD) male rats (Charles River, Germany) at a dose of 1.2 mg/kg corresponding to 57 nmol/kg. Blood

samples were collected from the tail vein of each rat at time points 0.08, 8, 24, 48, 72, 120, 168, 240, 336, 408 and 504 h after administration.

In a second experiment, ZAZ3363 (SEQ ID NO:1244) formulated in PBS was administered i.v. (n=5) or s.c. (n=6) to SD male rats at a dose of 1.2 mg/kg corresponding to 64 nmol/kg. Blood samples were collected from the tail vein of each rat at time points 0, 0.08, 0.5, 1, 3, 8, 24, 72, 120, 168, 216, 264, 336, 408, 456 and 504 h post i.v. administration or at time points 0, 0.08, 0.5, 1, 3, 8, 24, 72, 120 and 168 h post s.c. administration.

Serum was prepared from the blood samples and stored at -20 °C until analysis. Quantification of ZAZ3220 and ZAZ3363 in serum from rats was performed using a PK-ELISA.

PK-ELISA: 96-well, half-area plates (50 µl/well) were coated with 4 µg/well of goat anti-Z Ig (produced in-house) in coating buffer (Sigma, cat.no. C3041) overnight at 4 °C. The next day, the plates were blocked with PBS + 0.5 % casein for 1.5 h. Individual rat serum, minimally diluted 10 x in PBS-casein + 10 % rat serum pool (assay matrix) was added to the plates and titrated in 2-fold dilution series. Included on one plate was standard of each Z-ABD-Z polypeptide (titrated between 300 ng/ml and 3 pg/ml) and on each plate four controls of each Z-ABD-Z polypeptide diluted to concentration within the linear range of the assay. Standard and controls were diluted in assay matrix. The diluted standard, controls and samples were prepared in separate plates and transferred to the coated ELISA plates. The plates were incubated for 1.5 h at RT followed by 1.5 h incubation with a custom made detection rabbit anti-ABD Ig (4 µg/ml, CUV002) and 1 h incubation with donkey anti-rabbit IgG-HRP (Jackson Immunoresearch, cat. no. 711-035-152). The reaction was developed with TMB (Thermo Fisher) and the development reaction was stopped after 15 min with 2 M H_2SO_4. The absorbance was read at 450 nm in an ELISA reader (Victor^3, Perkin Elmer). The concentrations of the respective Z-ABD-Z variant in samples were calculated from the standard curve using GraphPad Prism5 and a four parameter logistic (4-PL) curve-fit.

Pharmacokinetic analysis: The pharmacokinetic analysis was based on individual rat serum concentration versus time. Terminal half-life (T½) and bioavailability was estimated using Microsoft Excel and GraphPad Prism and applying a two compartment model.

Results

Mean serum concentration-time profiles of the Z-ABD-Z polypeptides ZAZ3220 and ZAZ3363 following single administrations of 1.2 mg/kg to SD rats are shown in Figure 9A and Figure 9B, respectively, and the calculated pharmacokinetic parameters using a two-compartment analysis are summarized in Table 20. The estimated half-life (t½) was approximately 49 h for both ZAZ3220 and ZAZ3363 following i.v. administration. The t½ for ZAZ3363 administrated s.c. was 45 h and the bioavailability was calculated to 45 %.

Table 20: Mean pharmacokinetic parameters of Z-ABD-Z polypeptides following a single i.v. or s.c. administration to SD rats

Pharmakokinetic parameter	**ZAZ3220** i.v.	**ZAZ3363** i.v.	**ZAZ3363** s.c.
Cmax (nmol/L)	1905	1870	330
Tmax (h)	0.08	0.08	24
AUC_{0-t} (h*nmol/L)	46369	42757	19351
$t_{1/2}$ elimination (h)	49	49	45
MRT (h)	35	33	47
CL (L/h/kg)	0.003	0.003	0.003
F (%)	n.a.	n.a.	45

Cmax: Peak serum concentration; Tmax: Time to reach the peak serum concentration; AUC_{0-t}: Area under the concentration-time curve from time zero to last quantifiable concentration; $T_{1/2}$: Half-life; MRT: Mean residence time; CL: Clearance; F: Percentage absolute bioavailability, calculated as $F = [(\text{Mean } AUC_{s.c.} \times Dose_{i.v.}) / (\text{Mean } AUC_{i.v.} \times Dose_{s.c.})] \times 100$

Example 17

Topical administration of Z variant to eyes of rabbits

Local administration to the eye is beneficial in ophthalmologic disorders, e.g. uveitis or dry eye diseases. Topical administration enables extremely high local drug concentrations with a minimal risk of systemic side effects. In this Example, the possibility to topically administer Z variant molecules to eyes was investigated in rabbits. The concentration of a Z

variant molecule and a control IgG was measured in the anterior chamber (aqueous humor), in the vitreous humor and in serum after four repeated topical dosings.

Materials and methods

Production of Z variant: The Z variant Z10199 (SEQ ID NO:1217) derived from Z06282 (SEQ ID NO:1206) but starting AE was subcloned without any tag but with the C-terminal addition of amino acid residues VD. Expression was performed essentially as described in Example 2, and purification was carried out by anion exchange and reverse phase chromatography. The sample was buffer exchanged to PBS pH 7.2 and endotoxins were removed using an EndoTrap® red 10 column (Hyglos).

Animal study: 48 nmol (1 drop, 50 µl) of Z10199 and ZAZ3174 (SEQ ID NO:1233), respectively, was administered topically to each eye of rabbits (n=2 per molecule) at time points 0, 1, 2 and 3 hours. A control human IgG antibody (Xolair; Novartis) was administered in the same way to two different rabbits. As a negative control, one rabbit was administered PBS only. After each administration, the eyelids were held closed during approximately 30 s to keep the sample on the cornea. After 4 h, vitreous humor, aqueous humor and serum were collected. The samples were centrifuged to remove tissue debris and aggregates and the levels of Z10199, ZAZ3174 and antibody, respectively, were quantified by ELISA.

Quantification by ELISA: The concentration of Z10199 and ZAZ3174, respectively, in the collected samples was analyzed by a sandwich ELISA using an in-house produced polyclonal goat anti-protein Z immunoglobulin for capture, an in-house produced polyclonal rabbit anti-protein Z immunoglobulin as primary antibody and goat anti-rabbit IgG-HRP (Dako cat. no. P0448) as secondary antibody. Detection was performed by incubation with ImmunoPure TMB for 15 min at RT and the reaction was stopped by addition of 2 M H_2SO_4. Absorption at 450 nm was measured with the microplate reader Victor^3. The concentration of Z10199 was calculated from a standard curve prepared with the same molecule and using GraphPad prism5 and a non-linear regression formula.

The concentration of IgG in the collected samples was analyzed by an IgG ELISA kit (Abcam 100547) and performed as described by the manufacturer, using a standard curve provided and analysis by non-linear regression as above.

Results

Figure 10 shows that both Z10199 and ZAZ3174 penetrated the eye after topical administration and was present in aqueous and vitreous humor at low nM concentrations. In contrast, the control IgG antibody was not detected in either aqueous or vitreous humor. The serum samples could be regarded as negative for both the Z variant and IgG. Thus, the Z variant molecules of the present disclosure may be delivered by this alternative route of administration, which is not available to antibodies, and a local effect that avoids systemic exposure may be achieved.

Example 18
Pharmacokinetic analysis of duodenal administration of ZAZ3363 formulations in rat

Materials and methods

Test item: ZAZ3363 (SEQ ID NO:1244) was formulated in 1) OAF1: 0.12 M sodium chenodeoxycholate (Sigma, cat.no. C8261) and 0.12 M propyl gallate (Sigma, cat.no. P3130), pH 7.4; 2) OAF2: 50 mg/ml sodium caprate (Sigma, cat.no. C4151); or 3) 50 mM sodium phosphate (PBS), pH 7.0, at a concentration of 50 mg/ml (OAF1 and OAF2) or 100 mg/ml (PBS).

NHDF cell assay: The activity of ZAZ3363 (SEQ ID NO:1244) formulated in OAF1, OAF2or PBS was verified in the IL-17 dependent NHDF cell assay described in Example 14.

Duodenal administration: Male Sprague Dawley rats (Charles River) were anesthetized with isofluorane, and a small incision was made to localise the duodenum. An indwelling catheter (R-DUOD, AgnTho's, Sweden) was inserted surgically into the duodenum 20 mm from its origin in an area of minimal vasculature. The catheter was tunnelled subcutaneously to the back of the animals. Abdominal musculature was closed with sutures, while the abdominal skin incision and sub scapular exteriorization site was closed with stainless steel wound clips. The animals were left to recover for 5-6 days before being taken to the study. Post-operative analgesia was administered s.c. prior to surgery (carprofen 5 mg/kg and buprenorphine 0.05 mg/kg). Carprofen was administered once daily also on the two days following surgery. Additional doses of buprenorphine were administered when

necessary. Antibiotics (enrofloxacin 0.3 mg/ml) was administered in the drinking water during the recovery period (3-5 days), as well as during the experiment. To mask the bitter taste of enrofloxacin, one piece of sugar was added to 500 ml of drinking water. To ensure a maintained patency, the duodenal catheter was flushed daily with sterile water (0.2-0.5 ml).

ZAZ3363 was administered directly into duodenum at a dose of 5.4 µmol/kg body weight formulated in OAF1 or OAF2 (n=2) or at 10.8 µmol/kg formulated in PBS (n=2) in a volume of 0.5 ml at time-point zero. Blood samples were taken under isoflurane anesthesia at 1, 3, 8, 24, 72, 120 and 168 h after administration and serum was prepared by standard procedures. The concentration of ZAZ3363 in serum was measured by the quantitative PK-ELISA described in Example 16, but titrating the standard of ZAZ3363 between 70 and 1 ng/ml.

Pharmacokinetic analysis: The pharmacokinetic analysis was based on individual rat serum concentration versus time. Terminal half-life (T½) and bioavailability was estimated using Microsoft Excel and GraphPad Prism.

Results

Activity of formulated ZAZ3363: The activity of ZAZ3363 formulated in OAF1 and OAF2, respectively, was compared to formulation in PBS in the NHDF cell assay. Figure 11 shows the titration curves of OAF1 compared to PBS formulated ZAZ3363 (Figure 11A) and OAF2 compared to PBS formulated ZAZ3363 (Figure 11B). The experiment showed that the activity of ZAZ3363 in the two formulations was identical to PBS, i.e. the biological activity of ZAZ3363 was not affected by the different excipients.

Intraduodenal uptake of ZAZ3363: Intestinal uptake of OAF1, OAF2 and PBS formulated ZAZ3363 was examined in a rat model of intraduodenal administration (i.d.). The experiment showed an increased uptake with OAF1 and OAF2 formulations compared to PBS (Figure 12). The bioavailabilities were 0.2, 0.8 and 0.0007 for OAF1, OAF2 and PBS, respectively, as shown in Table 21. OAF2 formulated ZAZ3363 showed the best uptake, on average 1160 times better compared to formulation in PBS although great individual variation was seen. Formulation of ZAZ3363 in OAF1 was on average 260 times better than formulation in PBS.

Table 21: Bioavailability and T ½ after intraduodenal administration of ZAZ3363 in three different formulations

Formulation	T½ (h)	Bioavailability (%)
PBS	43	0.0007 +/- 0.0002
OAF1	43	0.2 +/- 0.02
OAF2	50	0.8 +/- 1.2

Example 19

Characterization of anti-IL-17A/anti-TNF complexes in the NHDF assay

Materials and methods

Production of complexes and control antibody: Two different complexes targeting IL-17A and TNF were constructed, as well as an antibody with affinity for TNF. The antibody denoted "Ada", having the same CDR sequences and specificity as the commercially available monoclonal antibody adalimumab, was constructed using the heavy chain (HC) and light chain (LC) sequences HC_{Ada} (SEQ ID NO:1231) and LC_{Ada} (SEQ ID NO:1232). The IL-17A targeting Z variant Z14253 (SEQ ID NO:1219) moiety was genetically fused, via a flexible 15 residue $(GGGGS)_3$ linker, to the C-termini of HC_{Ada} or LC_{Ada}, resulting in the complexes HC_{Ada}-Z14253 and LC_{Ada}-Z14253, respectively. A schematic of the constructed complexes is shown in Figure 13A. Gene synthesis, cloning, production by transient gene expression in CHO cells and purification using Protein A affinity chromatography was performed by Evitria AG (Switzerland).

Blocking of IL-17A induced IL-6 production in NHDF assay: The NHDF assay was performed essentially as described in Example 14, titrating the study samples HC_{Ada}-Z14253 and LC_{Ada}-Z14253 and their comparators in three-fold steps from 63 nM to 0.003 nM in a medium containing 0.9 nM rhIL-17A. The comparators were ZAZ3363 (SEQ ID NO:1244), the anti-TNF antibody Ada, as well as a negative control Z variant Z04726 (SEQ ID NO:1223; targeting *taq* polymerase) recombinantly fused to the ABD variant PP013 (SEQ ID NO:1224) via a VDSS linker (denoted Z04726-PP013), as described in Example 2. A standard IL-17A curve was also prepared (6.2-0.0001 nM) as well as controls containing medium with 0.9 nM IL-17A or medium alone. The IL-6 content in supernatants was quantified using the IL-6 specific ELISA described in Example 3.

Blocking of TNF or TNF/IL-17A induced IL-8 production in NHDF assay: NHDF (Lonza, cat.no. CC-2511) cells were cultured in fibroblast basal medium (Lonza, cat.no. CC-3132) supplied with growth promoting factors (Lonza, cat.no CC-5034). On the day before the experiment, 5000 cells per well were seeded into a half area 96 well culture plates (Greiner, cat.no 675180) in 100 µl. On the day of the experiment, dilutions of HC_{Ada}-Z14253 and LC_{Ada}-Z14253 and the comparators described above were prepared in a separate 96-well plate. The complexes and comparators were titrated in three-fold steps from 5 nM to 0.0007 nM in medium containing 0.1 nM human TNF (R&D Systems, cat. no. 2210-TA/CF) or a mixture of 0.05 nM and 0.1 nM rhIL-17A. Controls containing medium with 0.1 nM TNF or a mixture of 0.05 nM and 0.1 nM rhIL-17A or medium alone were also prepared. The medium in the plate with the overnight cultured NHDF cells was discarded and 100 µl/well of the sample was transferred to the cell plate. The plate was placed in an incubator at 37 °C for 18-24 h. The next day, the IL-8 content in supernatants was quantified using an IL-8 specific ELISA.

IL-8 ELISA: IL-8 was quantified by a DuoSet ELISA kit (R&D systems, cat. no. DY208). Half area plates (Costar, cat.no. 3690) were coated with the anti-IL-8 capture antibody, 4 µg/ml in PBS, 50 µl/well, overnight at 4 °C. On the day of the analysis, the plate was rinsed twice in tap water and then blocked with PBS + 1 % BSA for 2 h. IL-8 standard (R&D Systems, cat.no. 890806), titrated in a 2-fold dilution series (20-0.01 ng/ml) and supernatants from the cell assay plate were added to the coated ELISA plate (50 µl/well) and incubated for 1.5 h at RT. The plate was washed 4 times in an automated ELISA washer and 20 ng/ml (50 µl/well) of biotinylated anti-IL-8 detection antibody was added. After another 1 h incubation, the plate was washed and 50 µl of streptavidin-HRP (Thermo Fisher, cat. no. N100) diluted 8000 x was added per well. The plate was developed after one additional hour's incubation and washing, with 50 µl TMB (Thermo Fisher, cat. no 34021) per well, and the reaction was stopped with 50 µl 2 M H_2SO_4. The absorbances were read in a multi label reader (Victor^3, Perkin Elmer).

Results

Blocking of IL-17A induced IL-6 production in NHDF assay: The two complexes HC_{Ada}-Z14253 and LC_{Ada}-Z14253 were studied with regard to their capacity to block IL-17A induced IL-6 production in the NHDF assay. Results from the NHDF assay are presented in Figure 13B. Both HC_{Ada}-Z14253 and LC_{Ada}-Z14253 has a similar capacity to block IL-17A as ZAZ3363. As expected, no inhibition was seen for Ada or the negative control Z04726-PP013.

Blocking of TNF or TNF/IL-17A induced IL-8 production in NHDF assay: The two complexes HC_{Ada}-Z14253 and LC_{Ada}-Z14253 were studied with regard to their capacity to block TNF or a mixture of TNF/IL-17A induced IL-8 production in the NHDF assay. Results from the NHDF assay showed that HC_{Ada}-Z14253 and LC_{Ada}-Z14253 have similar inhibitory profiles as the anti-TNF antibody Ada with regard to specific TNF blocking capacity (Figure 13C). However, HC_{Ada}-Z14253 and LC_{Ada}-Z14253 had superior inhibitory profiles compared to Ada and ZAZ3363 in the combination assay, where the blocking effect to both TNF and IL-17 was investigated (Figure 13D).

Example 20

In vivo pharmacokinetics of Z-ABD-Z polypeptide in monkeys

This Example describes a repeated dose study conducted over 10 days in cynomolgus monkeys administered with the Z-ABD-Z polypeptide ZAZ3363. The results were used for estimation of the half-life of ZAZ3363 in cynomolgus.

Materials and methods

ZAZ3363 (SEQ ID NO:1244) was administered at 20 mg/kg (n=2; 1 male and 1 female) and 40 mg/kg (n=4; 2 male and 2 female) as a short i.v. infusion on days 1, 4, 7 and 10. Plasma samples for determination of ZAZ3363 concentration were collected in connection with the first dose on day 1 (at time points 0 (pre-dose), 5 min, 0.5, 1, 2, 6, 24 and 48 h after administration) and last dose on day 10 (at time points 0 (pre-dose), 5 min, 0.5, 1, 2, 6, 24, 48 h, 5, 7, 10, 12, 14 and 21 days after administration). Quantification of ZAZ3363 in plasma samples was carried out by LC-MS/MS based on peptides obtained after tryptic digestion of ZAZ3363. Concentration-

time profiles were evaluated using both non-compartmental methods with separate analyses for day 1 and day 10 and compartmental methods evaluating the data for day 1 and day 10 combined for each animal.

Results

Mean plasma concentration-time profiles of ZAZ3363 following administration on day 1 and day 10 are shown in Figure14A and Figure 14B, respectively. Despite the fact that ZAZ3363 was not administered as a single dose with full PK evaluation, the available results after multiple dosing allows for a prediction of the concentration-time profile after single doses. The plasma concentrations decreased in two phases according to a two-compartment behavior. The t½ of the second phase estimated from this and a second repeated dose study (data not shown) was approximately 4-7.5 days, which is in agreement with the reported t½ for monkey albumin (Deo et al., 1974, J Nutr 104:858-64). No significant gender differences were observed.

Example 21
Oral administration of Z-ABD-Z polypeptide in dogs

Materials and methods

Preparation of capsules: ZAZ3363 (SEQ ID NO:1244) was formulated in OAF1 (see Example 18) at a concentration of 100 mg/ml. The formulation was lyophilized and filled in hard shell capsules subsequently enteric coated (performed by Catalent Pharma Solutions, Beinheim, France). Each capsule contained approximately 25 mg ZAZ3363.

Animal study: The animal study was performed at Huntingdon Life Science (Cambridgeshire, UK). Fasted beagle dogs (n=3; female individuals) each received six capsules containing ZAZ3363 (approximately 150 mg). Serum samples were taken at 0.5, 1, 2, 4, 6, 8, 12, 24 and 96 h after administration.

Quantification: The concentration of ZAZ3363 in serum samples was quantified using a PK sandwich ELISA essentially as described in Example 16, but using an in-house produced monoclonal anti-Z IgG in the first coating step.

Results

The individual dog serum concentrations versus time profiles of ZAZ3363 are shown in Figure 15. The results showed intestinal uptake of ZAZ3363 in all three animals, but with some variation between individuals. The ZAZ3363 serum concentration reached a maximum of 2-30 nM. Once in the circulation, the serum levels of ZAZ3363 remains stable at least up to 96 h, which is ascribed the interaction with dog albumin of the ABD moiety PP013 (SEQ ID NO:1223) within ZAZ3363. The ability of PP013 to bind dog albumin has been demonstrated previously (WO2012/004384).

ITEMIZED LISTING OF EMBODIMENTS

1. IL-17A binding polypeptide, comprising an IL-17A binding motif *BM*, which motif consists of an amino acid sequence selected from:

i) $EX_2DX_4AX_6X_7EIX_{10}X_{11}LPNL\ X_{16}X_{17}X_{18}QX_{20}X_{21}AFIX_{25}\ X_{26}LX_{28}X_{29}$

wherein, independently from each other,

X_2 is selected from A, H, M and Y;
X_4 is selected from A, D, E, F, K, L, M, N, Q, R, S and Y;
X_6 is selected from A, Q and W;
X_7 is selected from F, I, L, M, V, W and Y;
X_{10} is selected from A and W;
X_{11} is selected from A, D, E, F, G, L, M, N, Q, S, T and Y;
X_{16} is selected from N and T;
X_{17} is selected from H, W and Y;
X_{18} is selected from A, D, E, H and V;
X_{20} is selected from A, G, Q, S and W;
X_{21} is selected from A, D, E, F, H, K, N, R, T, V, W and Y;
X_{25} is selected from A, D, E, G, H, I, L, M, N, Q, R, S, T and V;
X_{26} is selected from K and S;
X_{28} is selected from I, L, N and R; and
X_{29} is selected from D and R;

and

ii) an amino acid sequence which has at least 89% identity to the sequence defined in i).

2. IL-17A binding polypeptide according to item 1, wherein, in sequence i),

X_2 is selected from A, H and M;
X_4 is selected from A, D, E, F, L, M, N, Q, R and Y;
X_{11} is selected from A, D, E, F, G, L, M, N, S, T and Y;
X_{18} is selected from A, D, E and V;
X_{20} is selected from A, G, Q and W;
X_{21} is selected from E, F, H, N, R, T, V, W and Y;
X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S, T and V; and
X_{28} is selected from I, N and R.

3. IL-17A binding polypeptide according to item 2, wherein, in sequence i),

X_{16} is T;

X_{17} is W;

X_{21} is selected from E, F, H, W, T and Y;

X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S and T;

X_{26} is K; and

X_{29} is D.

4. IL-17A binding polypeptide according to any preceding item, wherein sequence i) fulfills at least six of the eleven conditions I-XI:

I. X_2 is A;

II. X_4 is selected from D, E and Q;

III. X_6 is A;

IV. X_7 is selected from F and V;

V. X_{16} is T;

VI. X_{17} is W;

VII. X_{18} is selected from A and D;

VIII. X_{20} is W;

IX. X_{26} is K;

X. X_{28} is R; and

XI. X_{29} is D.

5. IL-17A binding polypeptide according to item 4, wherein sequence i) fulfills at least seven of the eleven conditions I-XI.

6. IL-17A binding polypeptide according to item 5, wherein sequence i) fulfills at least eight of the eleven conditions I-XI.

7. IL-17A binding polypeptide according to item 6, wherein sequence i) fulfills at least nine of the eleven conditions I-XI.

8. IL-17A binding polypeptide according to item 7, wherein sequence i) fulfills at least ten of the eleven conditions I-XI.

9. IL-17A binding polypeptide according to item 8, wherein sequence i) fulfills all of the eleven conditions I-XI.

10. IL-17A binding polypeptide according to any preceding item, wherein X_2X_6, X_2X_{10} or X_6X_{10} is AA.

11. IL-17A binding polypeptide according to any preceding item, wherein X_2X_{17}, X_2X_{20}, X_6X_{17}, X_6X_{20}, $X_{10}X_{17}$ or $X_{10}X_{20}$ is AW.

12. IL-17A binding polypeptide according to any preceding item, wherein X_2X_{28}, X_6X_{28} or $X_{10}X_{28}$ is AR.

13. IL-17A binding polypeptide according to any preceding item, wherein $X_{17}X_{28}$ or $X_{20}X_{28}$ is WR.

14. IL-17A binding polypeptide according to any preceding item, wherein $X_{17}X_{20}$ is WW.

15. IL-17A binding polypeptide according to any preceding item, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-1216.

16. IL-17A binding polypeptide according to item 15, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-66, 1200, 1206 and 1214.

17. IL-17A binding polypeptide according to item 16, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-66.

18. IL-17A binding polypeptide according to item 17, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-35.

19. IL-17A binding polypeptide according to item 18, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-27.

20. IL-17A binding polypeptide according to item 19, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-10.

21. IL-17A binding polypeptide according to item 20, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-7.

22. IL-17A binding polypeptide according to item 21, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-4.

23. IL-17A binding polypeptide according to item 22, wherein sequence i) is the sequence from position 8 to position 36 in SEQ ID NO:1.

24. IL-17A binding polypeptide according to any preceding item, wherein said IL-17A binding motif forms part of a three-helix bundle protein domain.

25. IL-17A binding polypeptide according to item 24, wherein said IL-17A binding motif essentially forms part of two helices with an interconnecting loop, within said three-helix bundle protein domain.

26. IL-17A binding polypeptide according to item 25, wherein said three-helix bundle protein domain is selected from bacterial receptor domains.

27. IL-17A binding polypeptide according to item 26, wherein said three-helix bundle protein domain is selected from domains of protein A from *Staphylococcus aureus* or derivatives thereof.

28. IL-17A binding polypeptide according to any preceding item, which comprises an amino acid sequence binding module, *BMod*, selected from:

iii) K-[*BM*]-DPSQS X_aX_bLLX_c EAKKL $X_dX_eX_f$Q;

wherein

[*BM*] is an IL-17A binding motif as defined in any one of items 1-23 provided that X_{29} is D;

X_a is selected from A and S;

X_b is selected from N and E;

X_c is selected from A, S and C;

X_d is selected from E, N and S;

X_e is selected from D, E and S;

X_f is selected from A and S; and

iv) an amino acid sequence which has at least 85 % identity to a sequence defined by iii).

29. IL-17A binding polypeptide according to any one of items 1-27, which comprises an amino acid sequence binding module, *BMod*, selected from:

v) K-[*BM*]-QPEQS X_aX_bLLX_c EAKKL $X_dX_eX_f$Q;

wherein

[*BM*] is an IL-17A binding motif as defined in any one of items 1-23 provided that X_{29} is R;

X_a is selected from A and S;

X_b is selected from N and E;

X_c is selected from A, S and C;

X_d is selected from E, N and S;

X_e is selected from D, E and S;

X_f is selected from A and S; and

vi) an amino acid sequence which has at least 85 % identity to a sequence defined by v).

30. IL-17A binding polypeptide according to item 28 or 29, wherein X_a in sequence iii) or v) is A.

31. IL-17A binding polypeptide according to item 28 or 29, wherein X_a in sequence iii) or v) is S.

32. IL-17A binding polypeptide according to any one of items 28-31, wherein X_b in sequence iii) or v) is N.

33. IL-17A binding polypeptide according to any one of items 28-31, wherein X_b in sequence iii) or v) is E.

34. IL-17A binding polypeptide according to any one of items 28-33, wherein X_c in sequence iii) or v) is A.

35. IL-17A binding polypeptide according to any one of items 28-33, wherein X_c in sequence iii) or v) is S.

36. IL-17A binding polypeptide according to any one of items 28-33, wherein X_c in sequence iii) or v) is C.

37. IL-17A binding polypeptide according to any one of items 28-36, wherein X_d in sequence iii) or v) is E.

38. IL-17A binding polypeptide according to any one of items 28-36, wherein X_d in sequence iii) or v) is N.

39. IL-17A binding polypeptide according to any one of items 28-36, wherein X_d in sequence iii) or v) is S.

40. IL-17A binding polypeptide according to any one of items 28-39, wherein X_e in sequence iii) or v) is D.

41. IL-17A binding polypeptide according to any one of items 28-39, wherein X_e in sequence iii) or v) is E.

42. IL-17A binding polypeptide according to any one of items 28-39, wherein X_e in sequence iii) or v) is S.

43. IL-17A binding polypeptide according to any one of items 37 and 39-42, wherein X_dX_e in sequence iii) or v) is selected from EE, ES, SD, SE and SS.

44. IL-17A binding polypeptide according to item 43, wherein X_dX_e in sequence iii) or v) is ES.

45. IL-17A binding polypeptide according to item 43, wherein X_dX_e in sequence iii) or v) is SE.

46. IL-17A binding polypeptide according to item 43, wherein X_dX_e in sequence iii) or v) is SD.

47. IL-17A binding polypeptide according to any one of items 28-46, wherein X_f in sequence iii) or v) is A.

48. IL-17A binding polypeptide according to any one of items 28-46, wherein X_f in sequence iii) or v) is S.

49. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is A and X_f is A.

50. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A and X_f is A.

51. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is C and X_f is A.

52. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S and X_f is S.

53. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S and X_f is A.

54. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A and X_f is S.

55. IL-17A binding polypeptide according to item 28 or 29, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is C and X_f is S.

56. IL-17A binding polypeptide according to item 49, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is ND and X_f is A.

57. IL-17A binding polypeptide according to item 50, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is ND and X_f is A.

58. IL-17A binding polypeptide according to item 51, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is ND and X_f is A.

59. IL-17A binding polypeptide according to item 52, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ND and X_f is S.

60. IL-17A binding polypeptide according to item 53, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ND and X_f is A.

61. IL-17A binding polypeptide according to item 55, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is ND and X_f is S.

62. IL-17A binding polypeptide according to item 49, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is SE and X_f is A.

63. IL-17A binding polypeptide according to item 50, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SE and X_f is A.

64. IL-17A binding polypeptide according to item 51, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is SE and X_f is A.

65. IL-17A binding polypeptide according to item 52, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is SE and X_f is S.

66. IL-17A binding polypeptide according to item 54, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SE and X_f is S.

67. IL-17A binding polypeptide according to item 55, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is SE and X_f is S.

68. IL-17A binding polypeptide according to item 49, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is ES and X_f is A.

69. IL-17A binding polypeptide according to item 50, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is ES and X_f is A.

70. IL-17A binding polypeptide according to item 51, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is ES and X_f is A.

71. IL-17A binding polypeptide according to item 52, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is ES and X_f is S.

72. IL-17A binding polypeptide according to item 55, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is ES and X_f is S.

73. IL-17A binding polypeptide according to item 49, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is A; X_dX_e is SD and X_f is A.

74. IL-17A binding polypeptide according to item 50, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SD and X_f is A.

75. IL-17A binding polypeptide according to item 51, wherein, in sequence iii) or v), X_a is A; X_b is N; X_c is C; X_dX_e is SD and X_f is A.

76. IL-17A binding polypeptide according to item 52, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is S; X_dX_e is SD and X_f is S.

77. IL-17A binding polypeptide according to item 54, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is A; X_dX_e is SD and X_f is S.

78. IL-17A binding polypeptide according to item 55, wherein, in sequence iii) or v), X_a is S; X_b is E; X_c is C; X_dX_e is SD and X_f is S.

79. IL-17A binding polypeptide according to item 28, wherein said sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-1216.

80. IL-17A binding polypeptide according to item 79, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-66, 1200, 1206 and 1214.

81. IL-17A binding polypeptide according to item 80, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-66.

82. IL-17A binding polypeptide according to item 81, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-35.

83. IL-17A binding polypeptide according to item 82, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-27.

84. IL-17A binding polypeptide according to item 83, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-10.

85. IL-17A binding polypeptide according to item 84, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-7.

86. IL-17A binding polypeptide according to item 85, wherein sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-4.

87. IL-17A binding polypeptide according to item 86, wherein sequence iii) the sequence from position 7 to position 55 in SEQ ID NO:1.

88. IL-17A binding polypeptide according to any preceding item, which comprises an amino acid sequence selected from:

vii) YA-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined in any one of items 28-87; and

viii) an amino acid sequence which has at least 86 % identity to a sequence defined by vii).

89. IL-17A binding polypeptide according to any one of items 1-87, which comprises an amino acid sequence selected from:

ix) FA-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined in any one of items 28-87; and

x) an amino acid sequence which has at least 86 % identity to a sequence defined by ix).

90. IL-17A binding polypeptide according to any one of items 1-87, which comprises an amino acid sequence selected from:

xi) FN-[*BMod*]-AP;

wherein [*BMod*] is an IL-17A binding module as defined in any one of items 28-87; and

xii) an amino acid sequence which has at least 86 % identity to a sequence defined by xi).

91. IL-17A binding polypeptide according to any preceding item, which comprises an amino acid sequence selected from:

ADNNFNK-*[BM]*-DPSQSANLLSEAKKLNESQAPK;
ADNKFNK-*[BM]*-DPSQSANLLAEAKKLNDAQAPK;
ADNKFNK-*[BM]*-DPSVSKEILAEAKKLNDAQAPK;
ADAQQNNFNK-*[BM]*-DPSQSTNVLGEAKKLNESQAPK;
AQHDE-*[BM]*-DPSQSANVLGEAQKLNDSQAPK;
VDNKFNK-*[BM]*-DPSQSANLLAEAKKLNDAQAPK;
AEAKYAK-*[BM]*-DPSESSELLSEAKKLNKSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNDAQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNDSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAP;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDAQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLNDAQAP;
AEAKFAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
AEAKFAK-*[BM]*-DPSQSSELLSEAKKLNDSQAP;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLNDAQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAP;
AEAKFAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;
AEAKFAK-*[BM]*-DPSQSSELLSEAKKLSESQAP;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSEAQAPK;
AEAKYAK-*[BM]*-QPEQSSELLSEAKKLSESQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAP;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLESAQAPK;
AEAKYAK-*[BM]*-QPEQSSELLSEAKKLESSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAP;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSDSQAPK;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLSDAQAPK;
AEAKYAK-*[BM]*-QPEQSSELLSEAKKLSDSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLSEAKKLSESQAPK;

VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSEAQAPK;
VDAKYAK-*[BM]*-QPEQSSELLSEAKKLSESQAPK;
VDAKYAK-*[BM]*-DPSQSSELLSEAKKLESSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLESAQAPK;
VDAKYAK-*[BM]*-QPEQSSELLSEAKKLESSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLSEAKKLSDSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSDSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLSDAQAPK;
VDAKYAK-*[BM]*-QPEQSSELLSEAKKLSDSQAPK;
VDAKYAK-*[BM]*-DPSQSSELLAEAKKLNKAQAPK;
AEAKYAK-*[BM]*-DPSQSSELLAEAKKLNKAQAPK; and
ADAKYAK-*[BM]*-DPSQSSELLSEAKKLNDSQAPK;

wherein [*BM*] is an IL-17A binding motif as defined in any one of items 1-23.

92. IL-17A binding polypeptide according to any preceding item, which comprises an amino acid sequence selected from:

xiii) VDAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined in any one of items 1-23; and

xiv) an amino acid sequence which has at least 86 % identity to the sequence defined in xiii).

93. IL-17A binding polypeptide according to item 92, wherein sequence xiii) is selected from SEQ ID NO:1-1216.

94. IL-17A binding polypeptide according to item 93, wherein sequence xiii) is selected from SEQ ID NO:1-66, 1200, 1206 and 1214.

95. IL-17A binding polypeptide according to item 94, wherein sequence xiii) is selected from SEQ ID NO:1-66.

96. IL-17A binding polypeptide according to item 95, wherein sequence xiii) is selected from SEQ ID NO:1-35.

97. IL-17A binding polypeptide according to item 96, wherein sequence xiii) is selected from SEQ ID NO:1-27.

98. IL-17A binding polypeptide according to item 97, wherein sequence xiii) is selected from SEQ ID NO:1-10.

99. IL-17A binding polypeptide according to item 98, wherein sequence xiii) is selected from SEQ ID NO:1-7.

100. IL-17A binding polypeptide according to item 99, wherein sequence xiii) is selected from SEQ ID NO:1-4.

101. IL-17A binding polypeptide according to item 100, wherein sequence xiii) is SEQ ID NO:1.

102. IL-17A binding polypeptide according to any one of items 1-91, which comprises an amino acid sequence selected from:

xv) AEAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined in any one of items 1-23; and

xvi) an amino acid sequence which has at least 86 % identity to the sequence defined in xv).

103. IL-17A binding polypeptide according to item 102, wherein sequence xv) is selected from SEQ ID NO:1217-1222.

104. IL-17A binding polypeptide according to item 103, wherein sequence xv) is selected from SEQ ID NO:1218-1222.

105. IL-17A binding polypeptide according to item 104, wherein sequence xv) is selected from SEQ ID NO:1219-1222.

106. IL-17A binding polypeptide according to item 105, wherein sequence xv) is selected from SEQ ID NO:1219 and SEQ ID NO:1222.

107. IL-17A binding polypeptide according to item 106, wherein sequence xv) is SEQ ID NO:1219.

108. IL-17A binding polypeptide according to any preceding item, which is capable of binding to IL-17A such that the K_D value of the interaction is at most 1 x 10^{-6} M, such as at most 1 x 10^{-7} M, such as at most 1 x 10^{-8} M, such as at most 1 x 10^{-9} M.

109. IL-17A binding polypeptide according to any preceding item, which is capable of binding to an IL-17A molecule selected from the group consisting of human IL-17A and murine IL-17A.

110. IL-17A binding polypeptide according to item 109, which is capable of binding to human IL-17A.

111. IL-17A binding polypeptide according to item 109, which is capable of binding to murine IL-17A.

112. IL-17A binding polypeptide according to any one of items 109-111, which is capable of binding to human IL-17A and to murine IL-17A.

113. IL-17A binding polypeptide according to any one of items 109, 110 and 112, wherein said human IL-17A comprises the amino acid sequence SEQ ID NO:1226 or an antigenically effective fragment thereof.

114. IL-17A binding polypeptide according to any one of items 109, 111 and 112, wherein said murine IL-17A comprises the amino acid sequence SEQ ID NO:1227 or an antigenically effective fragment thereof.

115. IL-17A binding polypeptide according to any preceding item which comprises additional amino acids at the C-terminal and/or N-terminal end.

116. IL-17A binding polypeptide according to item 115, wherein said additional amino acid(s) improve(s) and/or simplify/simplifies production, purification, stabilization *in vivo* or *in vitro*, coupling or detection of the polypeptide.

117. IL-17A binding polypeptide according to any preceding item in multimeric form, comprising at least two IL-17A binding polypeptide monomer units, whose amino acid sequences may be the same or different.

118. IL-17A binding polypeptide according to item 117, wherein said IL-17A binding polypeptide monomer units are covalently coupled together.

119. IL-17A binding polypeptide according to item 118, wherein the IL-17A binding polypeptide monomer units are expressed as a fusion protein.

120. IL-17A binding polypeptide according to any one of items 117-119, in dimeric form.

121. Fusion protein or conjugate comprising

- a first moiety consisting of an IL-17A binding polypeptide according to any preceding item; and
- a second moiety consisting of a polypeptide having a desired biological activity.

122. Fusion protein or conjugate according to item 121, wherein said desired biological activity is a therapeutic activity.

123. Fusion protein or conjugate according to item 121, wherein said desired biological activity is a binding activity.

124. Fusion protein or conjugate according to item 123, wherein said binding activity is albumin binding activity which increases *in vivo* half-life of the fusion protein or conjugate.

125. Fusion protein or conjugate according to item 124, comprising two IL-17A binding polypeptides, each as defined in any one of items 1-116, with an albumin binding moiety between them.

126. Fusion protein or conjugate according to item 125, which is capable of binding to IL-17A such that the K_D value of the interaction is at most 1×10^{-10} M, such as at most 1×10^{-11} M, such as at most 1×10^{-12} M, such as at most 1×10^{-13} M.

127. Fusion protein or conjugate according to any one of items 124-126, wherein said second moiety comprises the albumin binding domain of streptococcal protein G or a derivative thereof.

128. Fusion protein or conjugate according to item 123, wherein said binding activity acts to inhibit a biological activity.

129. Fusion protein or conjugate according to item 123, wherein said binding activity acts to stimulate a biological activity.

130. Fusion protein or conjugate according to item 121, wherein said desired biological activity is an enzymatic activity.

131. Fusion protein or conjugate according to item 122, wherein the second moiety is a therapeutically active polypeptide.

132. Fusion protein or conjugate according to item 131, wherein the second moiety is an immune response modifying agent, for example an anti-inflammatory agent.

133. Fusion protein or conjugate according to any one of items 121-122 and 130-132, wherein the second moiety is selected from the group consisting of human endogenous enzymes, hormones, growth factors, chemokines, cytokines and lymphokines, and agonists, antagonists and inhibitors thereof.

134. Fusion protein or conjugate according to item 131, wherein the second moiety is a toxic compound.

135. Fusion protein or conjugate according to item 123, wherein said binding activity is binding to an immune response associated factor, for example an inflammation-associated factor.

136. Complex, comprising at least one IL-17A binding polypeptide according to any one of items 1-117 or at least one fusion protein or conjugate according to any one of items 121-135, and at least one antibody or an antigen binding fragment thereof.

137. Complex according to item 136, wherein said at least one antibody or antigen binding fragment thereof is selected from the group consisting of full-length antibodies, Fab fragments, Fab' fragments, $F(ab')_2$ fragments, Fc fragments, Fv fragments, single chain Fv fragments, $(scFv)_2$ and domain antibodies.

138. Complex according to item 137, wherein said at least one antibody or antigen binding fragment thereof is selected from the group consisting of full-length antibodies, Fab fragments and scFv fragments.

139. Complex according to item 138, wherein said at least one antibody or antigen binding fragment thereof is a full-length antibody.

140. Complex according to any one of items 136-139, wherein said antibody or antigen binding fragment thereof is a monoclonal antibody or an antigen binding fragment thereof.

141. Complex according to any one of items 136-140, wherein said antibody or antigen binding fragment thereof is selected from the group consisting of human antibodies, humanized antibodies and chimeric antibodies, and antigen-binding fragments thereof.

142. Complex according to item 141, wherein said antibody or antigen binding fragment thereof is a human or humanized antibody, or an antigen binding fragment thereof.

143. Complex according to any one of items 136-142, wherein said antibody or antigen binding fragment thereof has affinity for an antigen, such as selected from the group consisting of an antigen associated with an angiogenesis related disorder and an antigen associated with the immune response or with a disorder of the immune system.

144. Complex according to item 143, wherein said antigen is associated with an angiogenesis related disorder.

145. Complex according to item 143, wherein said antigen is associated with the immune response or with a disorder of the immune system, for example associated with inflammation.

146. Complex according to any one of items 136-145, which is a fusion protein or a conjugate.

147. Complex according to any one of items 136-146, wherein said IL-17A binding polypeptide is attached to the N-terminus or C-terminus of the heavy chain of said antibody or antigen binding fragment thereof.

148. Complex according to any one of items 136-146, wherein said IL-17A binding polypeptide is attached to the N-terminus or C-terminus of the light chain of said antibody or antigen binding fragment thereof.

149. Complex according to any one of items 136-146, wherein said IL-17A binding polypeptide is attached to the N-terminus and/or C-terminus of the light chain and heavy chain of said antibody or antigen binding fragment thereof.

150. Complex according to any one of items 146-149, which is a fusion protein.

151. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any preceding item, further comprising at least one linker, for example selected from the group consisting of non-peptidic linkers, flexible amino acid linkers, rigid amino acid linkers and cleavable amino acid linkers.

152. Fusion protein or conjugate according item 151, wherein said linker is arranged between said first moiety and said second moiety.

153. Complex according to item 151, wherein said linker is arranged between said IL-17A binding polypeptide and said antibody or antigen binding fragment thereof.

154. IL-17A binding polypeptide, fusion protein, conjugate or complex according any one of items 151-153, wherein said linker is a flexible linker comprising amino acid residues selected from the group consisting of glycine, serine and threonine.

155. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 154, wherein said linker comprises a sequence with a general formula selected from

$(G_nS_m)_p$ and $(S_nG_m)_p$,

wherein, independently,

n = 1-7,

m = 0-7,

n + m ≤ 8 and

p = 1-10.

156. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 155, wherein n = 1-5.

157. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 155-156, wherein m = 0-5.

158. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 155-157, wherein p = 1-5.

159. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 156-158, wherein n = 4, m = 1 and p = 1-4.

160. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 159, wherein said linker comprises a sequence selected from the group consisting of G_4S, $(G_4S)_2$, $(G_4S)_3$ and $(G_4S)_4$.

161. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 160, wherein said linker comprises the sequence G_4S.

162. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 155-159, wherein said general formula is $GT(G_nS_m)_p$.

163. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 162, wherein said linker comprises the sequence GTG_4S.

164. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any preceding item, further comprising a label.

165. IL-17A binding polypeptide, fusion protein, conjugate or complex according to item 164, wherein said label is selected from the group consisting of fluorescent dyes and metals, chromophoric dyes, chemiluminescent compounds and bioluminescent proteins, enzymes, radionuclides and particles.

166. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any preceding item, comprising a chelating environment provided by a polyaminopolycarboxylate chelator conjugated to the IL-17A binding polypeptide via a thiol group of a cysteine residue or an amine group of a lysine residue.

167. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any preceding item, comprising one or more polyethylene glycol moieties.

168. Polynucleotide encoding a polypeptide according to any one of items 1-163.

169. Expression vector comprising a polynucleotide according to item 168.

170. Host cell comprising an expression vector according to item 169.

171. Method of producing a polypeptide according to any one of items 1-163, comprising

- culturing a host cell according to item 170 under conditions permissive of expression of said polypeptide from said expression vector, and
- isolating said polypeptide.

172. Composition comprising an IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 and at least one pharmaceutically acceptable excipient or carrier.

173. Composition according to item 172, further comprising at least one additional active agent, such as an agent selected from the group consisting of therapeutically active polypeptides, immune response modifying agents, anti-inflammatory agents and toxic compounds.

174. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 or a composition according to any one of items 172-173 for oral, topical, intravenous, intraperitoneal, subcutaneous, pulmonary, transdermal, intramuscular, intranasal, buccal, sublingual or suppository administration, such as for oral administration or such as for topical administration.

175. IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 or a composition according to any one of items 172-173 for use as a medicament, a diagnostic agent or a prognostic agent.

176. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 175, wherein said polypeptide, fusion protein, conjugate, complex or composition modulates IL-17A function *in vivo*.

177. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to any one of items 175-176, wherein said polypeptide, fusion protein, conjugate, complex or composition inhibits IL-17A signaling.

178. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to any one of items 175-177, wherein said polypeptide, fusion protein, conjugate, complex or composition blocks binding of IL-17A to at least one of its cognate receptors.

179. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to any one of items 175-178, in the treatment, diagnosis or prognosis of an IL-17A associated condition.

180. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 179, wherein said IL-17A associated condition is selected from the group consisting of inflammatory diseases, autoimmune diseases and cancer.

181. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 180, wherein said IL-17A associated condition is selected from the group consisting of inflammatory diseases and autoimmune diseases.

182. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 181, wherein said IL-17A associated condition is selected from the group consisting of inflammatory conditions, allergic conditions, hypersensitivity reactions, autoimmune diseases, severe infections and transplant rejections.

183. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 182, wherein said IL-17A associated condition is selected from the group consisting of rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, psoriasis, multiple sclerosis, systemic lupus erythematosus, uveitis and dry eye disease.

184. IL-17A binding polypeptide, fusion protein, conjugate, complex or composition for use according to item 183, wherein said IL-17A associated condition is psoriasis.

185. IL-17A binding polypeptide, fusion protein, conjugate or complex for use in prognosis according to item 179, wherein said IL-17A associated condition is cancer, such as a cancer selected from the group consisting of gastric cancers, colorectal cancers, non-small cell lung cancers, hepatocellular carcinomas and adenocarcinomas.

186. Method of detecting IL-17A, comprising providing a sample suspected to contain IL-17A, contacting said sample with an IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 or a composition according to any one of items 172-173, and detecting the binding of the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition to indicate the presence of IL-17A in the sample.

187. Method for determining the presence of IL-17A in a subject, the method comprising the steps:

- contacting the subject, or a sample isolated from the subject, with an IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 or a composition according to any one of items 172-173, and
- obtaining a value corresponding to the amount of the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition that has bound in said subject or to said sample.

188. Method according to item 187, further comprising a step of comparing said value to a reference.

189. Method according to item 187 or 188, wherein said subject is a mammalian subject, such as a human subject.

190. Method according to any one of items 187-189, performed *in vivo*.

191. Method according to any one of items 187-189, performed *in vitro*.

192. Method of treatment of an IL-17A associated condition, comprising administering to a subject in need thereof an effective amount of

an IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of items 1-167 or a composition according to any one of items 172-173.

193. Method according to item 192, wherein said IL-17A associated condition is selected from the group consisting of inflammatory diseases, autoimmune diseases and cancer.

194. Method according to item 193, wherein said IL-17A associated condition is selected from the group consisting of inflammatory diseases and autoimmune diseases.

195. Method according to item 194, wherein said IL-17A associated condition is selected from the group consisting of inflammatory conditions, allergic conditions, hypersensitivity reactions, autoimmune diseases, severe infections and transplant rejections.

196. Method according to item 195, wherein said IL-17A associated condition is selected from the group consisting of rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, psoriasis, multiple sclerosis, systemic lupus erythematosus, uveitis and dry eye disease.

197. Method according to item 196, wherein said IL-17A associated condition is psoriasis.

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THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. IL-17A binding polypeptide, comprising an IL-17A binding motif *BM*, which motif consists of an amino acid sequence selected from:

i) $EX_2DX_4AX_6X_7EIX_{10}X_{11}LPNL\ X_{16}X_{17}X_{18}QX_{20}X_{21}AFIX_{25}\ X_{26}LX_{28}X_{29}$

wherein, independently from each other,

X_2 is selected from A, H, M and Y;

X_4 is selected from A, D, E, F, K, L, M, N, Q, R, S and Y;

X_6 is selected from A, Q and W;

X_7 is selected from F, I, L, M, V, W and Y;

X_{10} is selected from A and W;

X_{11} is selected from A, D, E, F, G, L, M, N, Q, S, T and Y;

X_{16} is selected from N and T;

X_{17} is selected from H, W and Y;

X_{18} is selected from A, D, E, H and V;

X_{20} is selected from A, G, Q, S and W;

X_{21} is selected from A, D, E, F, H, K, N, R, T, V, W and Y;

X_{25} is selected from A, D, E, G, H, I, L, M, N, Q, R, S, T and V;

X_{26} is selected from K and S;

X_{28} is selected from I, L, N and R; and

X_{29} is selected from D and R;

and

ii) an amino acid sequence which has at least 89% identity to the sequence defined in i).

2. IL-17A binding polypeptide according to claim 1, wherein, in sequence i),

X_2 is selected from A, H and M;

X_4 is selected from A, D, E, F, L, M, N, Q, R and Y;

X_{11} is selected from A, D, E, F, G, L, M, N, S, T and Y;

X_{18} is selected from A, D, E and V;

X_{20} is selected from A, G, Q and W;

X_{21} is selected from E, F, H, N, R, T, V, W and Y;

X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S, T and V; and

X_{28} is selected from I, N and R.

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3. IL-17A binding polypeptide according to claim 2, wherein, in sequence i),

X_{16} is T;

X_{17} is W;

X_{21} is selected from E, F, H, W, T and Y;

X_{25} is selected from A, D, E, G, H, I, L, N, Q, R, S and T;

X_{26} is K; and

X_{29} is D.

4. IL-17A binding polypeptide according to any one of claims 1 to 3, wherein sequence i) is the sequence from position 8 to position 36 in a sequence selected from the group consisting of SEQ ID NO:1-1216.

5. IL-17A binding polypeptide according to any one of claims 1 to 4, which comprises an amino acid sequence binding module, *BMod*, selected from:

iii) K-[*BM*]-DPSQS $X_aX_bLLX_c$ EAKKL $X_dX_eX_fQ$;

wherein

[*BM*] is an IL-17A binding motif as defined in any one of claims 1-4 provided that X_{29} is D;

X_a is selected from A and S;

X_b is selected from N and E;

X_c is selected from A, S and C;

X_d is selected from E, N and S;

X_e is selected from D, E and S;

X_f is selected from A and S; and

iv) an amino acid sequence which has at least 85 % identity to a sequence defined by iii).

6. IL-17A binding polypeptide according to claim 5, wherein said sequence iii) is the sequence from position 7 to position 55 in a sequence selected from the group consisting of SEQ ID NO:1-1216.

7. IL-17A binding polypeptide according to any one of claims 1 to 6, which comprises an amino acid sequence selected from:

vii) YA-[*BMod*]-AP;

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wherein [*BMod*] is an IL-17A binding module as defined in any one of claims 5-6; and

viii) an amino acid sequence which has at least 86 % identity to a sequence defined by vii).

8. IL-17A binding polypeptide according to any one of claims 1 to 7, which comprises an amino acid sequence selected from:

xiii) VDAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined in any one of claims 1-4; and

xiv) an amino acid sequence which has at least 86 % identity to the sequence defined in xiii).

9. IL-17A binding polypeptide according to claim 8, wherein sequence xiii) is selected from SEQ ID NO:1-1216.

10. IL-17A binding polypeptide according to any one of claims 1-7, which comprises an amino acid sequence selected from:

xv) AEAKYAK-[*BM*]-DPSQSSELLSEAKKLNDSQAPK;
wherein [*BM*] is an IL-17A binding motif as defined in any one of claims 1-4; and

xvi) an amino acid sequence which has at least 86 % identity to the sequence defined in xv).

11. IL-17A binding polypeptide according to claim 10, wherein sequence xv) is selected from SEQ ID NO:1217-1222.

12. IL-17A binding polypeptide according to any one of claims 1 to 11, which is capable of binding to IL-17A such that the K_D value of the interaction is at most 1 x 10^{-6} M, such as at most 1 x 10^{-7} M, such as at most 1 x 10^{-8} M, such as at most 1 x 10^{-9} M.

13. Fusion protein or conjugate comprising

- a first moiety consisting of an IL-17A binding polypeptide according to any one of claims 1 to 12; and
- a second moiety consisting of a polypeptide having a desired biological activity.

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14. Complex, comprising at least one IL-17A binding polypeptide according to any one of claims 1-12 or at least one fusion protein or conjugate according to claim 13, and at least one antibody or an antigen binding fragment thereof.

15. Polynucleotide encoding a polypeptide according to any one of claims 1-14.

16. Composition comprising an IL-17A binding polypeptide, fusion protein, conjugate or complex according to any one of claims 1-14 and at least one pharmaceutically acceptable excipient or carrier.

17. Use of an IL-17A binding polypeptide, a fusion protein, conjugate or complex according to any one of claims 1-14 or a composition according to claim 16, in the treatment, diagnosis or prognosis of an IL-17A associated condition.

18. Method of treatment of an IL-17A associated condition, comprising administering to a subject in need thereof an effective amount of an IL-17A binding polypeptide, a fusion protein, conjugate or complex according to any one of claims 1-14 or a composition according to claim 16.

19. Use of an effective amount of an IL-17A binding polypeptide, a fusion protein, conjugate or complex according to any one of claims 1-14 in the manufacture of a medicament for the treatment of an IL-17A associated condition.

20. Method of detecting IL-17A, comprising providing a sample suspected to contain IL-17A, contacting said sample with an IL-17A binding polypeptide, a fusion protein, conjugate or complex according to any one of claims 1-14 or a composition according to claim 16, and detecting the binding of the IL-17A binding polypeptide, fusion protein, conjugate, complex or composition to indicate the presence of IL-17A in the sample.

Z number	SEQUENCE	SEQ ID NO
Z10532	VDAKYAKEADDAAVEIASLPNLTWDQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	1
Z10508	VDAKYAKEADDAAVEIAALPNLTWDQWFAFISKLRDDPSQSSELLSEAKKLNDSQAPK	2
Z10863	VDAKYAKEADQAAVEIADLPNLTWAQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	3
Z15167	VDAKYAKEADDAAVEIASLPNLTWAQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	4
Z12060	VDAKYAKEADAAAVEIAELPNLTWDQWWAFINKLRDDPSQSSELLSEAKKLNDSQAPK	5
Z12081	VDAKYAKEADDAAIEIADLPNLTWDQWWAFISKLRDDPSQSSELLSEAKKLNDSQAPK	6
Z12634	VDAKYAKEADRAAVEIADLPNLTWDQWYAFIEKLRDDPSQSSELLSEAKKLNDSQAPK	7
Z12078	VDAKYAKEADDAAYEIAYLPNLTWDQWFAFITKLRDDPSQSSELLSEAKKLNDSQAPK	8
Z12163	VDAKYAKEADQAAYEIAFLPNLTWDQWFAFINKLRDDPSQSSELLSEAKKLNDSQAPK	9
Z12264	VDAKYAKEADDAAYEIAFLPNLTWDQWWAFTQKLRDDPSQSSELLSEAKKLNDSQAPK	10
Z10241	VDAKYAKEADDAAVEIADLPNLTWDQWYAFISKLRDDPSQSSELLSEAKKLNDSQAPK	11
Z10462	VDAKYAKEADEAAVEIADLPNLTWDQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	12
Z10534	VDAKYAKEADDAAVEIADLPNLTWAQWYAFIGKLRDDPSQSSELLSEAKKLNDSQAPK	13
Z10566	VDAKYAKEADDAAIEIASLPNLTWDQWYAFIGKLRDDPSQSSELLSEAKKLNDSQAPK	14
Z10675	VDAKYAKEADDAAVEIADLPNLTWDQWFAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	15
Z10718	VDAKYAKEADDAAVEIADLPNLTWDQWHAFTQKLRDDPSQSSELLSEAKKLNDSQAPK	16
Z12059	VDAKYAKEADDAAYEIAFLPNLTWDQWFAFISKLRDDPSQSSELLSEAKKLNDSQAPK	17
Z12073	VDAKYAKEADDAAVEIADLPNLTWDQWYAFITKLRDDPSQSSELLSEAKKLNDSQAPK	18
Z12077	VDAKYAKEADLAAVEIADLPNLTWDQWWAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	19
Z12115	VDAKYAKEADDAAYEIAYLPNLTWDQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	20
Z12180	VDAKYAKEADDAAVEIAALPNLTWDQWWAFIGKLRDDPSQSSELLSEAKKLNDSQAPK	21
Z12211	VDAKYAKEADEAAVEIADLPNLTWDQWWAFINKLRDDPSQSSELLSEAKKLNDSQAPK	22
Z12256	VDAKYAKEADDAAVEIADLPNLTWDQWYAFIAKLRDDPSQSSELLSEAKKLNDSQAPK	23
Z12275	VDAKYAKEADDAAVEIADLPNLTWDQWFAFINKLRDDPSQSSELLSEAKKLNDSQAPK	24
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Z06271	VDAKYAKEAGDAQLEIWFLPNLTWAQSNAFIRKLIDDPSQSSELLSEAKKLNDSQAPK	1203
Z06274	VDAKYAKEGDQAAMEIAELPNLTWDQWFAFTLKLRDDPSQSSELLSEAKKLNDSQAPK	1204
Z06278	VDAKYAKEADDAAVEIAALPNLTYDQWRAFIAKLRDDPSQSSELLSEAKKLNDSQAPK	1205
Z06282	VDAKYAKEADQAAMEIATLPNLTWDQWFAFIAKLRDDPSQSSELLSEAKKLNDSQAPK	1206
Z06290	VDAKYAKEADNAALEIADLPNLTWVQWNAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	1207
Z06291	VDAKYAKEADDAAFEIAALPNLTARQWYAFISKLRDDPSQSSELLSEAKKLNDSQAPK	1208
Z06447	VDAKYAKETTYAWFEIWSLPNLTWDQQIAFIQKLNDDPSQSSELLSEAKKLNDSQAPK	1209
Z06448	VDAKYAKEADYAWFEIWSLPNLTYTQQSAFIRKLNDDPSQSSELLSEAKKLNDSQAPK	1210
Z06449	VDAKYAKEYDFAWFEIWLLPNLTRDQQSAFIHKLNDDPSQSSELLSEAKKLNDSQAPK	1211
Z06451	VDAKYAKEADEAWFEIWLLPNLTRSQASAFITKLNDDPSQSSELLSEAKKLNDSQAPK	1212
Z06453	VDAKYAKEADFAWFEIWALPNLTHDQSVAFIRKLNDDPSQSSELLSEAKKLNDSQAPK	1213
Z06455	VDAKYAKEMDNAQWEIWLLPNLTWAQQHAFIGKLIDDPSQSSELLSEAKKLNDSQAPK	1214
Z06461	VDAKYAKEMDDAWWEIWDLPNLTYYQQRAFIVKLVDDPSQSSELLSEAKKLNDSQAPK	1215
Z06462	VDAKYAKEWGEAQLEIWLLPNLTWWQGHAFIQKLLDDPSQSSELLSEAKKLNDSQAPK	1216
Z10199	AEAKYAKEADQAAMEIATLPNLTWDQWFAFIAKLRDDPSQSSELLSEAKKLNDSQAPKVD	1217

Z12876	AEAKYAKEADDAAVEIADLPNLTWDQWYAFISKLRDDPSQSSELLSEAKKLNDSQAPK	1218
Z14253	AEAKYAKEADDAAVEIASLPNLTWDQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	1219
Z14254	AEAKYAKEADDAAVEIAALPNLTWDQWFAFISKLRDDPSQSSELLSEAKKLNDSQAPK	1220
Z14255	AEAKYAKEADQAAVEIADLPNLTWAQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	1221
Z15166	AEAKYAKEADDAAVEIASLPNLTWAQWYAFIQKLRDDPSQSSELLSEAKKLNDSQAPK	1222
Z04726	VDAKYAKELGWATWEIFNLPNLTGVQVKAFIDKLRDDPSQSSELLSEAKKLNDSQAPK	1223
PP013	LAEAKEAANAELDSYGVSDFYKRLIDKAKTVEGVEALKDAILAALP	1224
PEP07843	GSSLAEAKEAANAELDSYGVSDFYKRLIDKAKTVEGVEALKDAILAALP	1225
hIL-17A	MIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYP SVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTPIVHHV A	1226
mIL-17A	AAIIPQSSACPNTEAKDFLQNVKVNLKVFNSLGAKVSSRRPSDYLNRSTSPWTLHRNEDPDRYPSVIW EAQCRHQRCVNAEGKLDHHMNSVLIQQEILVLKREPESCPFTFRVEKMLVGVGCTCVASIVRQAA	1227
hIL-17F	MRKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMSRNIESRSTSPWNYTVTWDPNRYPSEV VQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQLEKVLVTVGCTCVTPVIHHVQ	1228
cIL-17A	MTPGKTSLVLLLLLSLEAIVKAGIAIPRNSGCPNSEDKNFPRTVMVNLNIHNRNTSTNPKRSSDYYN RSTSPWNLHRNEDPERYPSVIWEAKCRHLGCVKADGNVDYHMNSVPIQQEILVLRREPRHCPNSFRLE KILVSVGCTCVTPIVHHVA	1229
rmIL-17A	GIAIPRNPGCPNSEDKTFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNLHRNEDPERYPSVIWE AKCRHLGCVNADGNVDYHMNSVPIQQEILVLRREPRHCPNSFRLEKILVSVGCTCVTPIVHHVA	1230

Figure 2

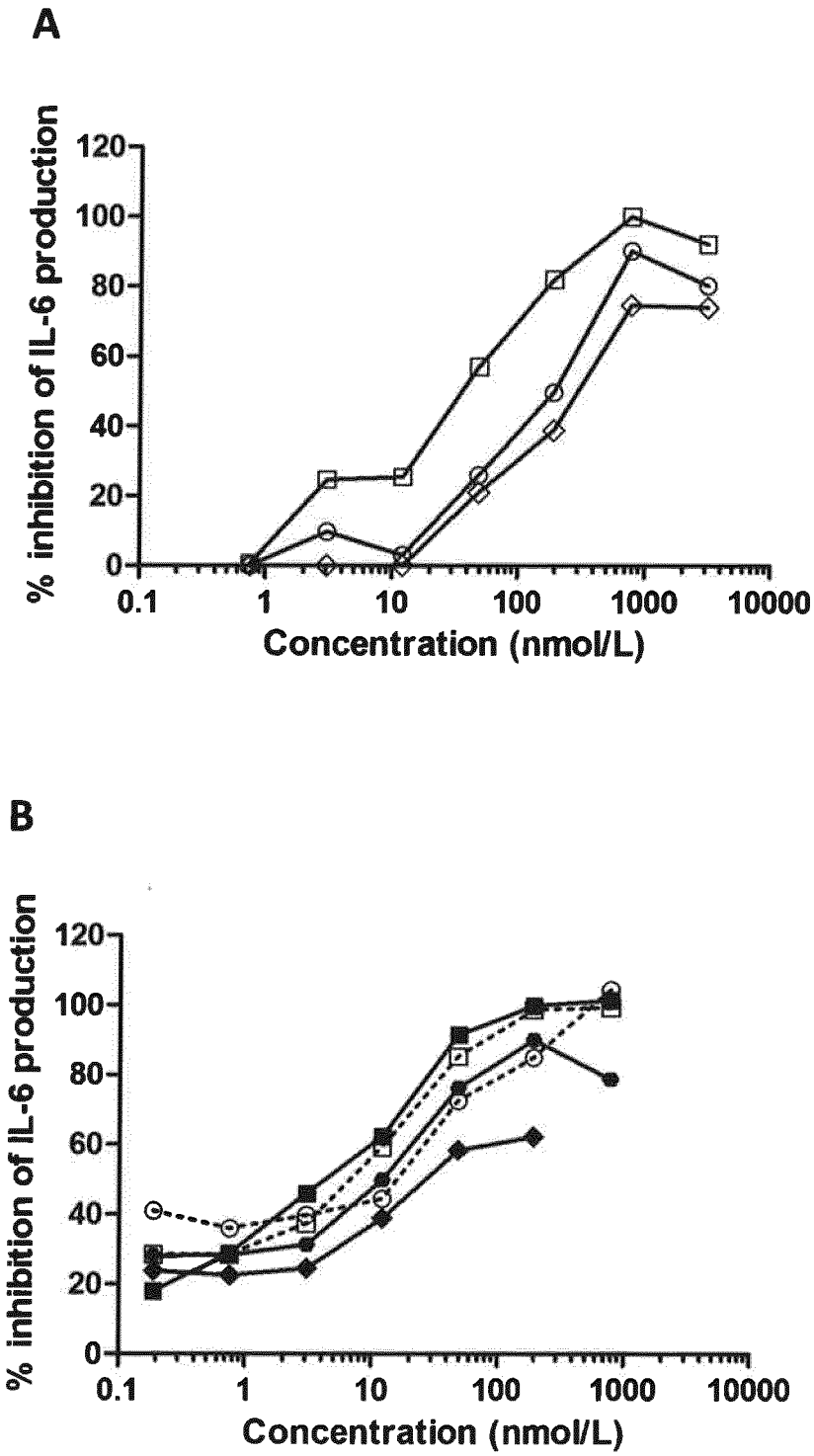

A
% inhibition of IL-6 production
120
100
80
60
40
20
0
0.1
1
10
100
1000
10000
Concentration (nmol/L)
B
% inhibition of IL-6 production
120
100
80
60
40
20
0
0.1
1
10
100
1000
10000
Concentration (nmol/L)

Figure 3

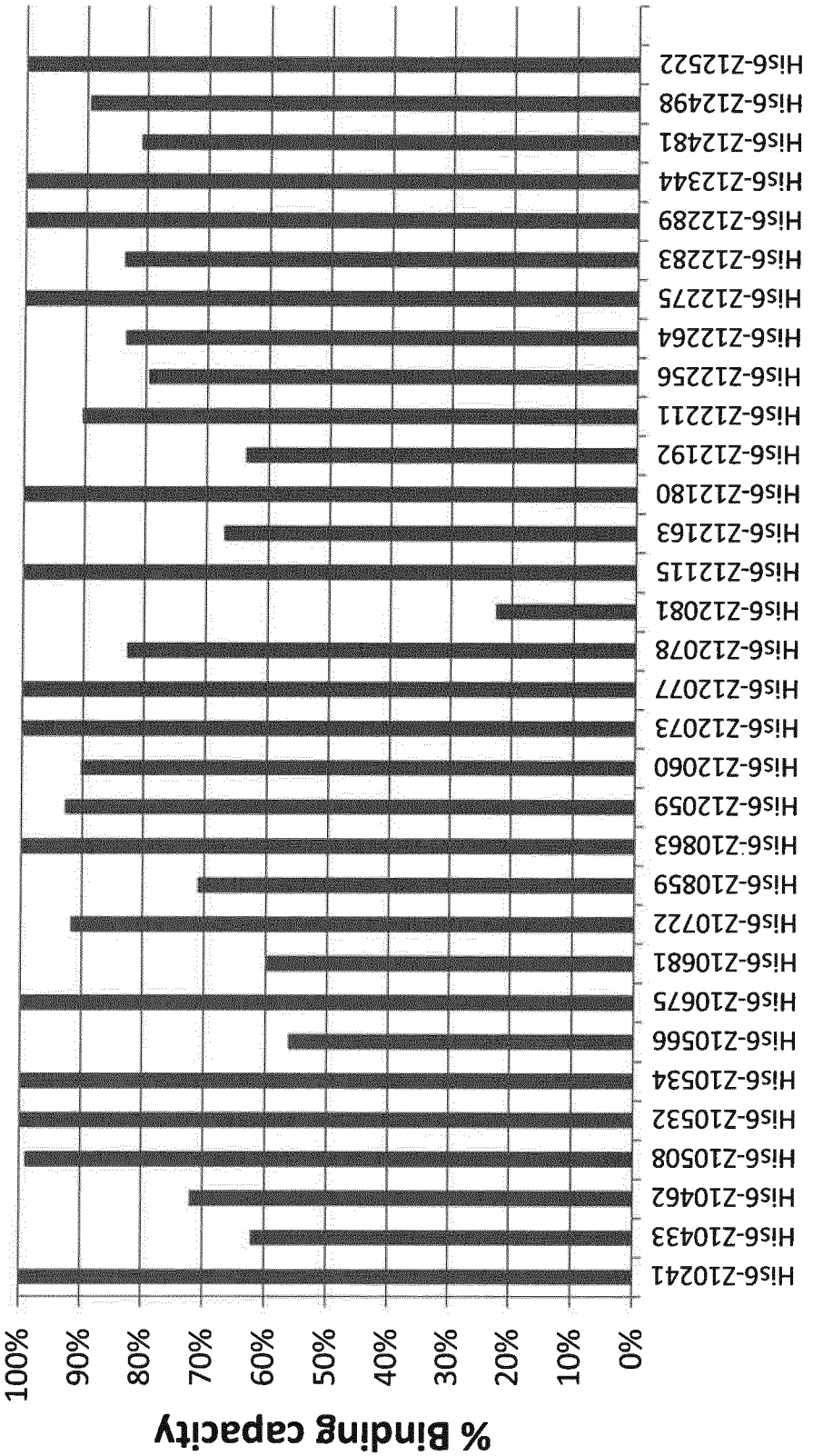

% Binding capacity
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
His6-Z10241
His6-Z10433
His6-Z10462
His6-Z10508
His6-Z10532
His6-Z10534
His6-Z10566
His6-Z10675
His6-Z10681
His6-Z10722
His6-Z10859
His6-Z10863
His6-Z12059
His6-Z12060
His6-Z12073
His6-Z12077
His6-Z12078
His6-Z12081
His6-Z12115
His6-Z12163
His6-Z12180
His6-Z12192
His6-Z12211
His6-Z12256
His6-Z12264
His6-Z12275
His6-Z12283
His6-Z12289
His6-Z12344
His6-Z12481
His6-Z12498
His6-Z12522

Figure 4A

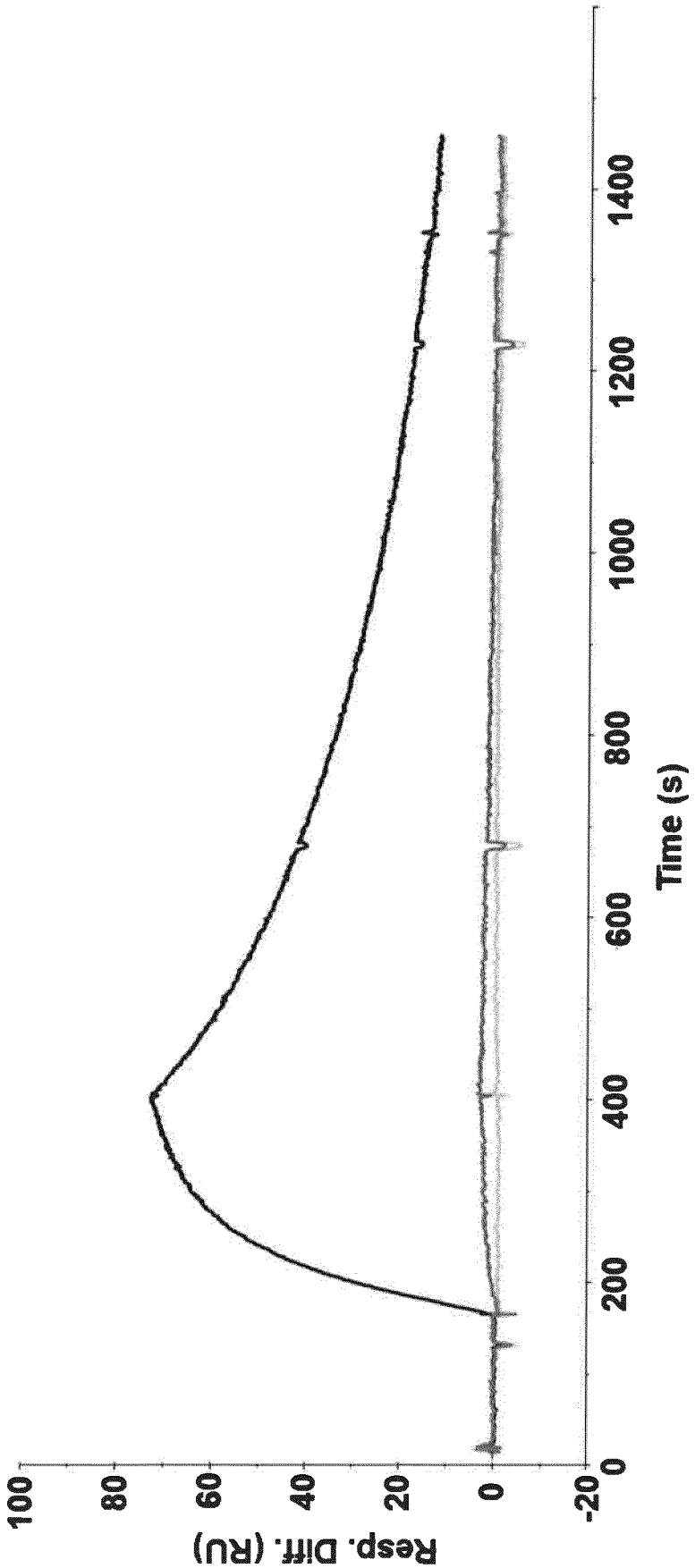

Resp. Diff. (RU)
100
80
60
40
20
0
-20
0
200
400
600
800
1000
1200
1400
Time (s)

Figure 4B

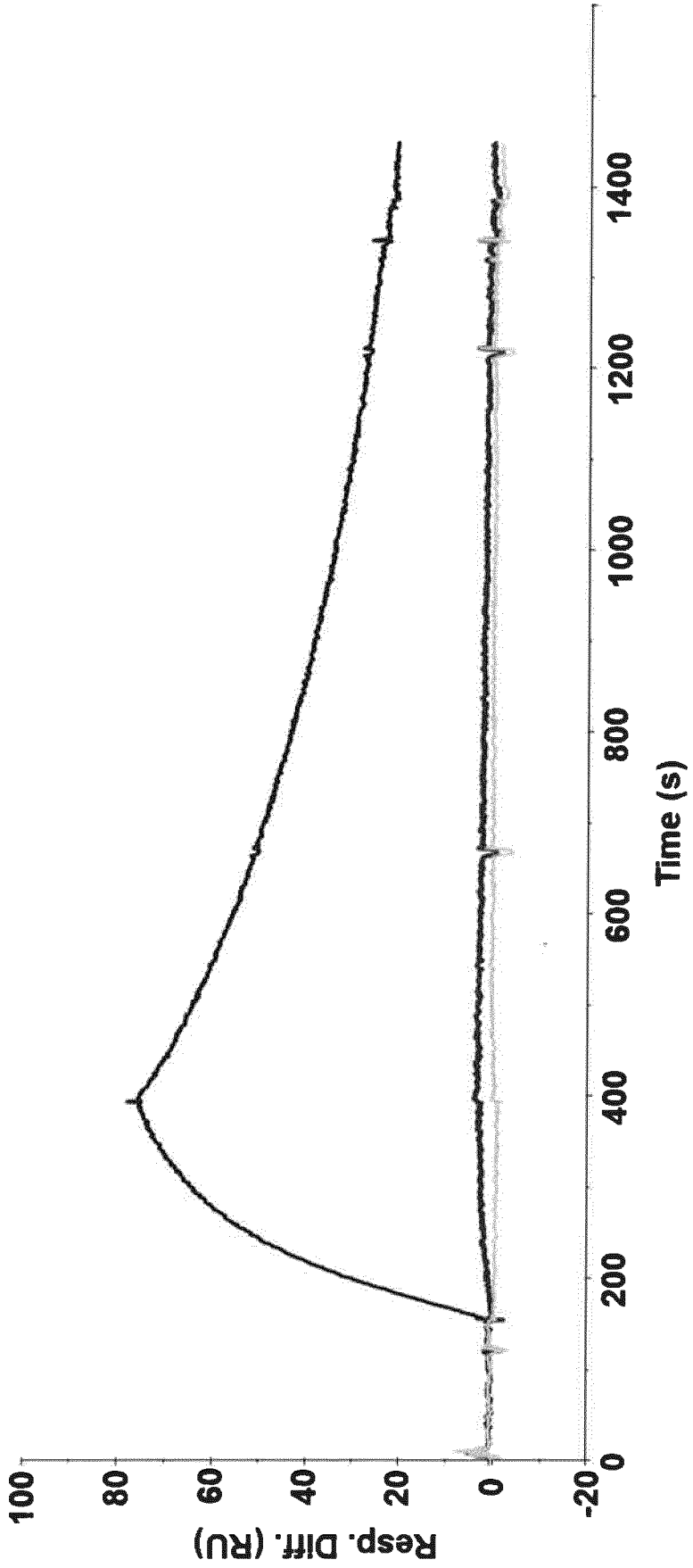

Resp. Diff. (RU)
100
80
60
40
20
0
-20
0
200
400
600
800
1000
1200
1400
Time (s)

Figure 4C

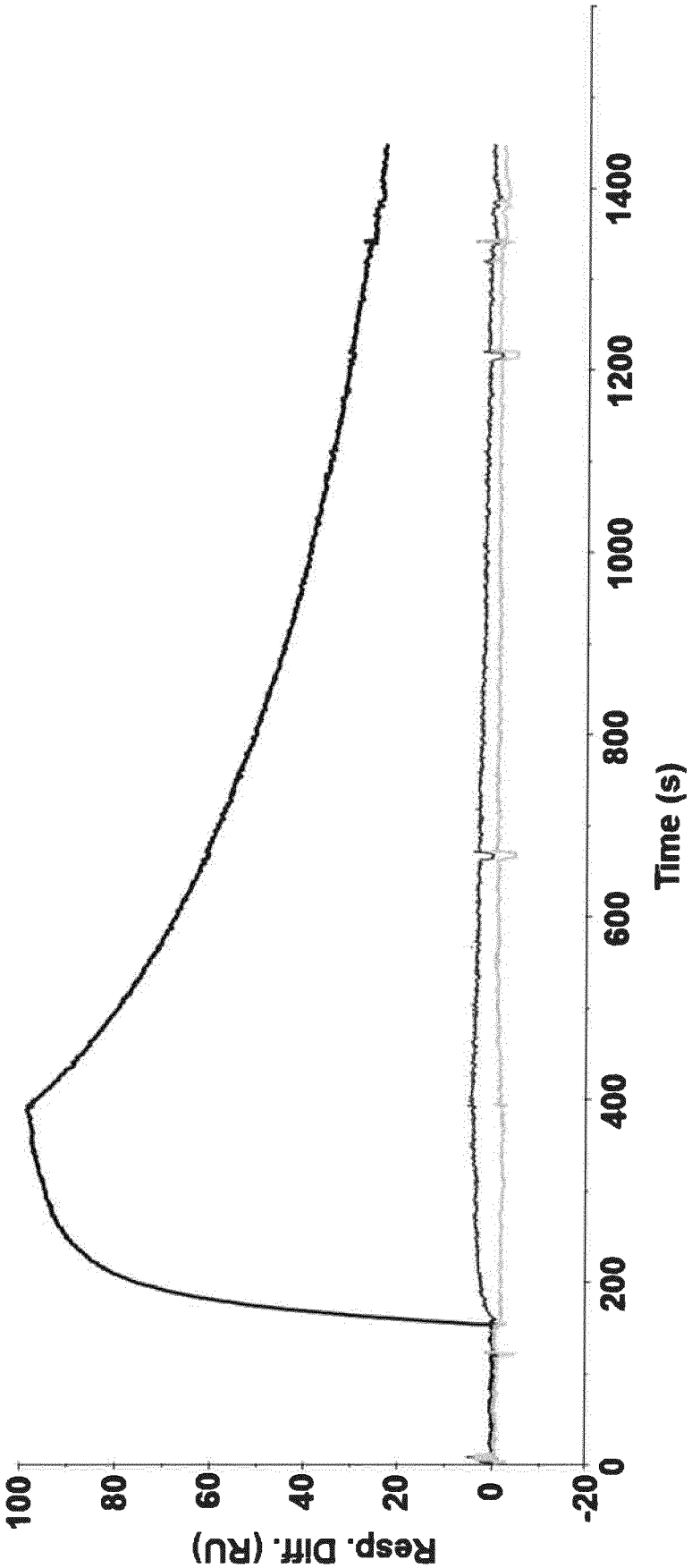

Resp. Diff. (RU)
100
80
60
40
20
0
-20
0
200
400
600
800
1000
1200
1400
Time (s)

Figure 5

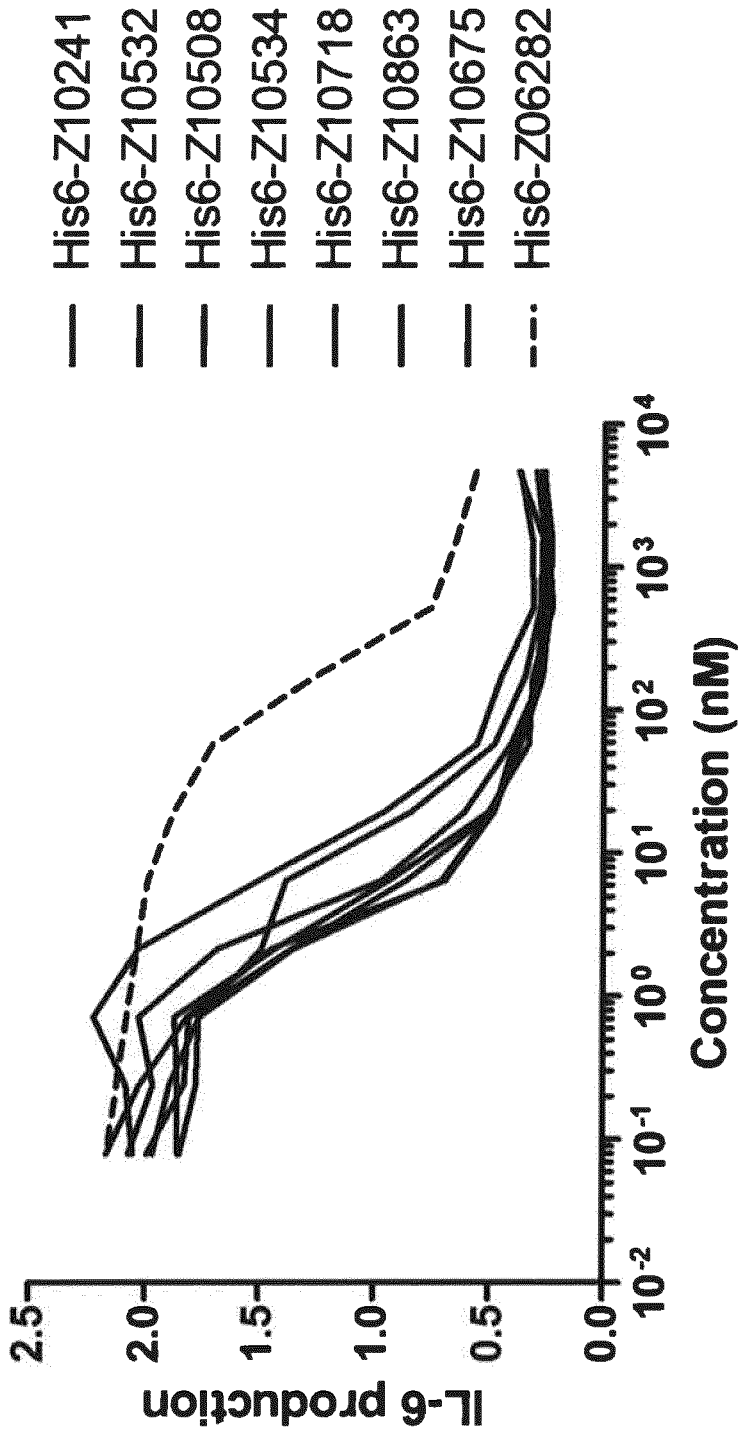

His6-Z10241
His6-Z10532
His6-Z10508
His6-Z10534
His6-Z10718
His6-Z10863
His6-Z10675
His6-Z06282
IL-6 production
2.5
2.0
1.5
1.0
0.5
0.0
10-2
10-1
100
101
102
103
104
Concentration (nM)

Figure 6A-C

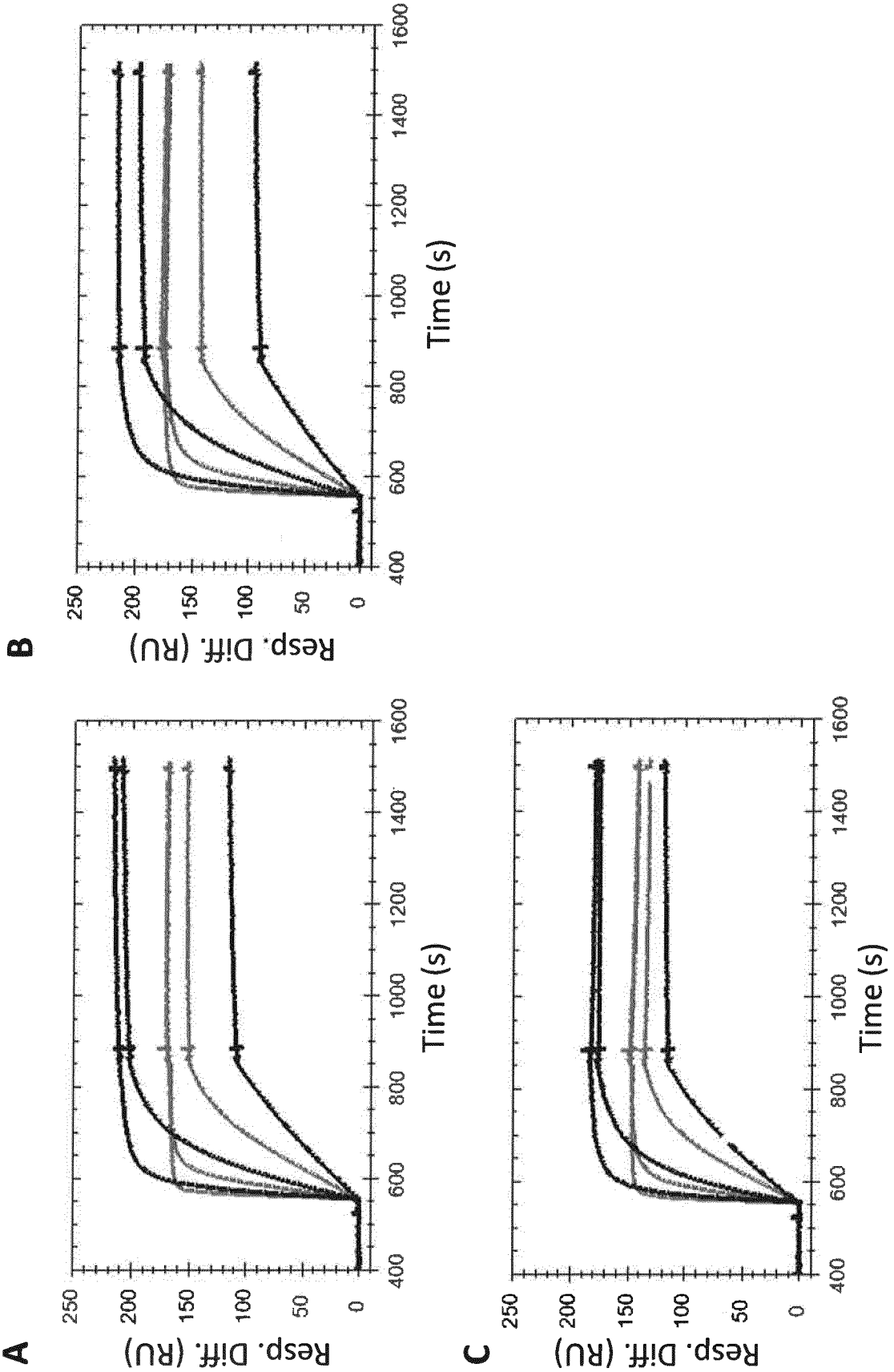

A
B
C
Resp. Diff. (RU)
Time (s)
0
50
100
150
200
250
400
600
800
1000
1200
1400
1600

Figure 7A-B

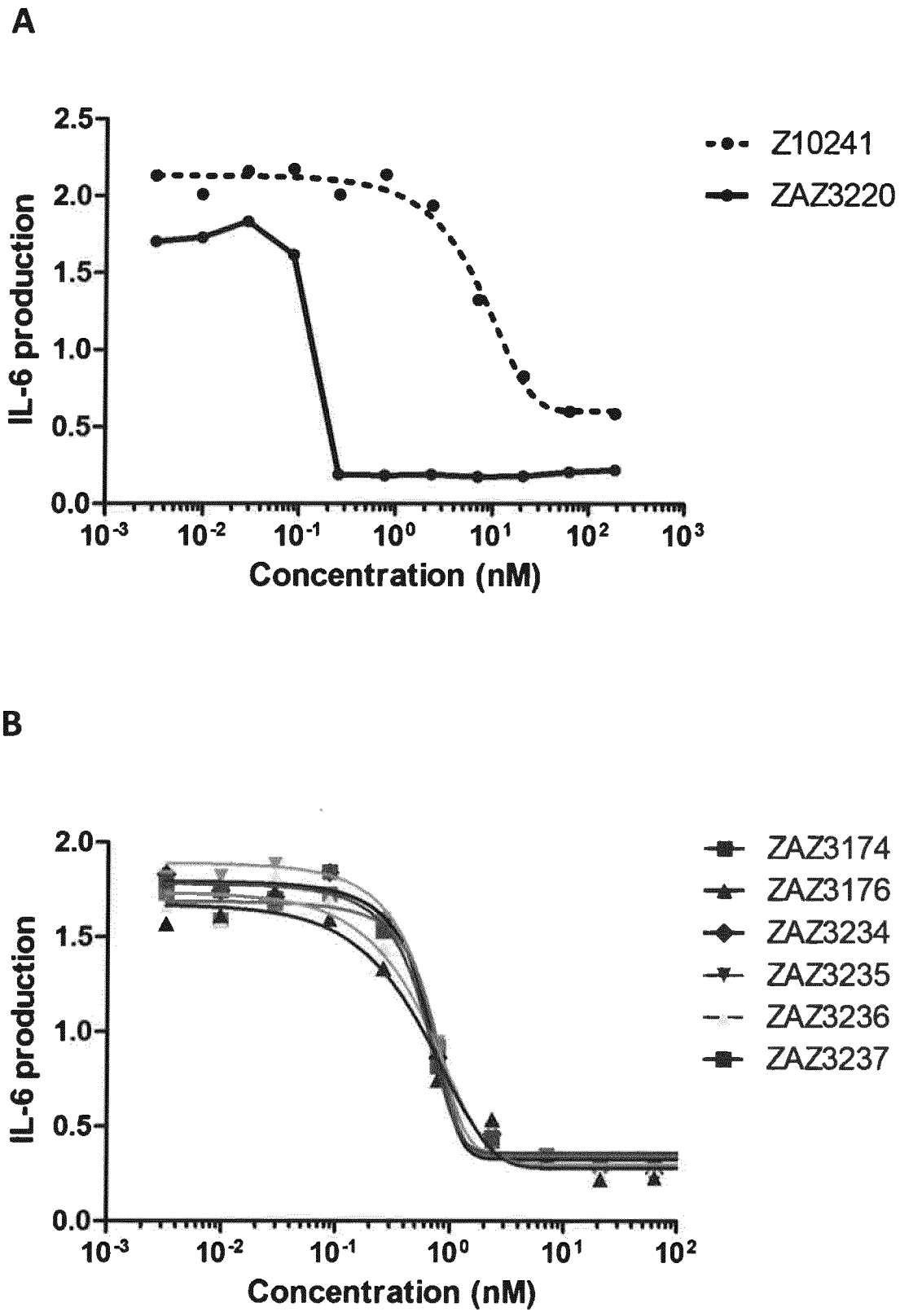

A
IL-6 production
2.5
2.0
1.5
1.0
0.5
0.0
10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
Concentration (nM)
Z10241
ZAZ3220
B
IL-6 production
2.0
1.5
1.0
0.5
0.0
10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2}
Concentration (nM)
ZAZ3174
ZAZ3176
ZAZ3234
ZAZ3235
ZAZ3236
ZAZ3237

Figure 8A

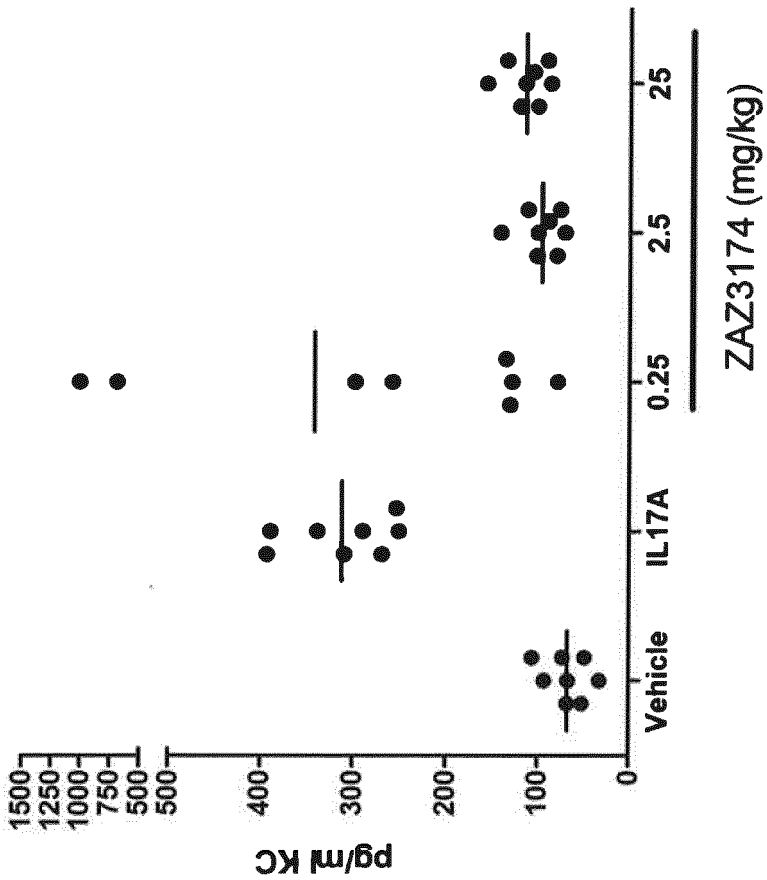

pg/ml KC
1500
1250
1000
750
500
500
400
300
200
100
0
Vehicle
IL17A
0.25
2.5
25
ZAZ3174 (mg/kg)

Figure 8B

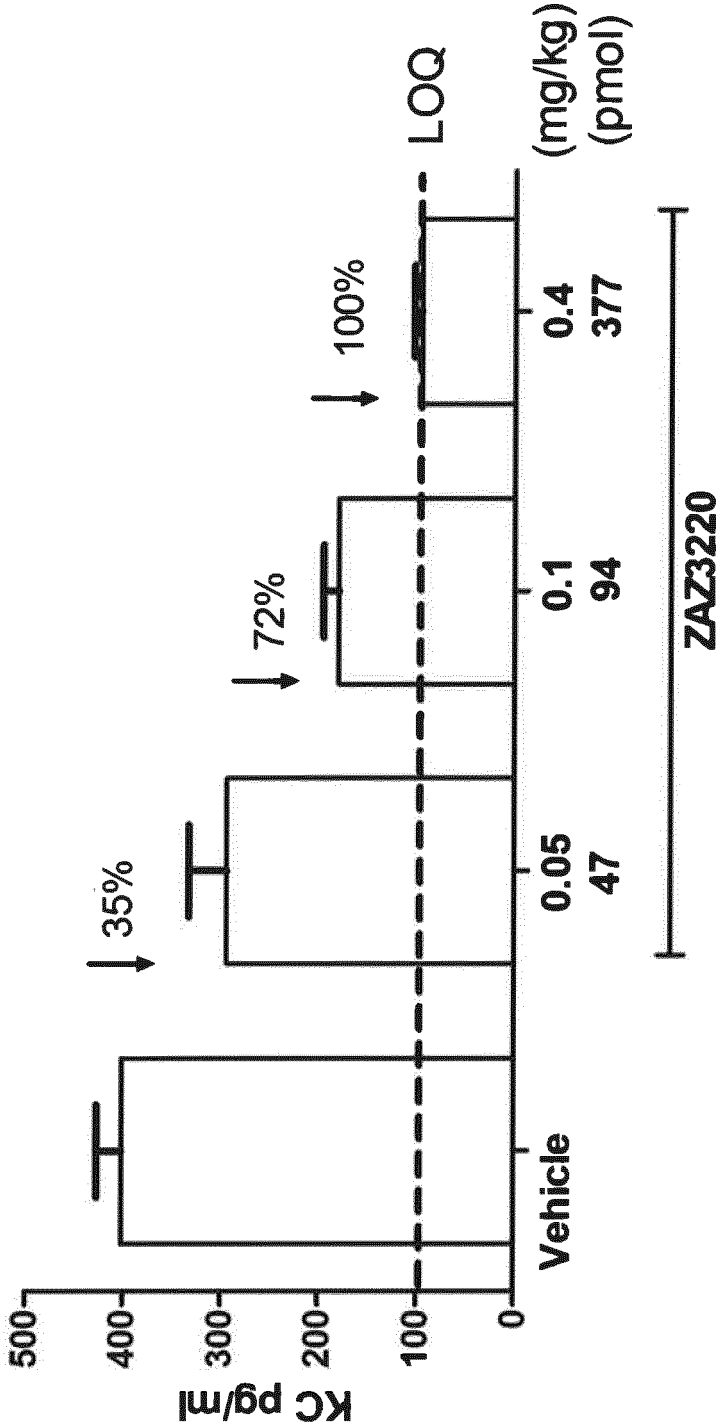
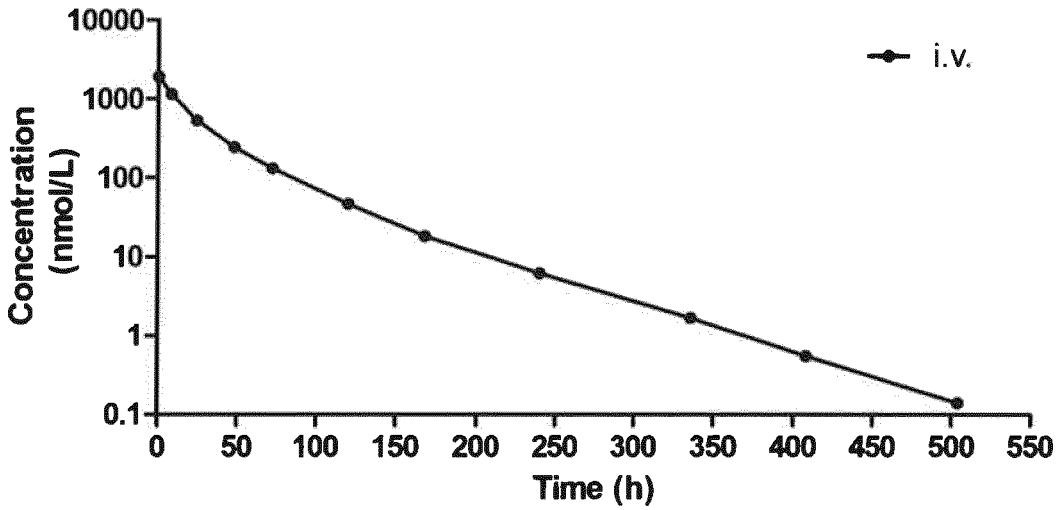

KC pg/ml
500
400
300
200
100
0
LOQ
35%
72%
100%
Vehicle
0.05
47
0.1
94
0.4
377
(mg/kg)
(pmol)
ZAZ3220

Figure 9A-B

A



B

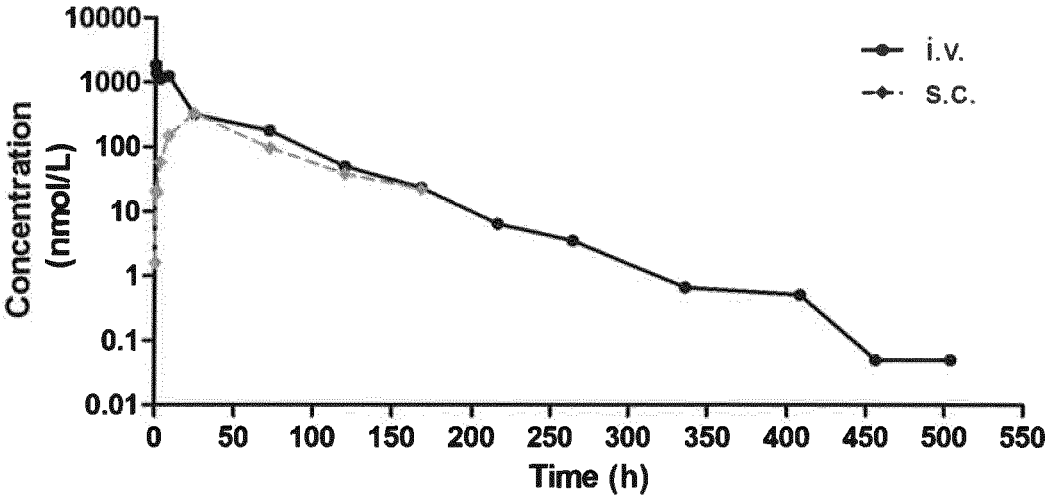


Figure 10


Concentration (nM)
20
10
10
8
6
4
2
0
Aqueous
Vitreous
Aqueous
Vitreous
Aqueous
Vitreous
Z10199
ZAZ3174
IgG

Figure 11A-B

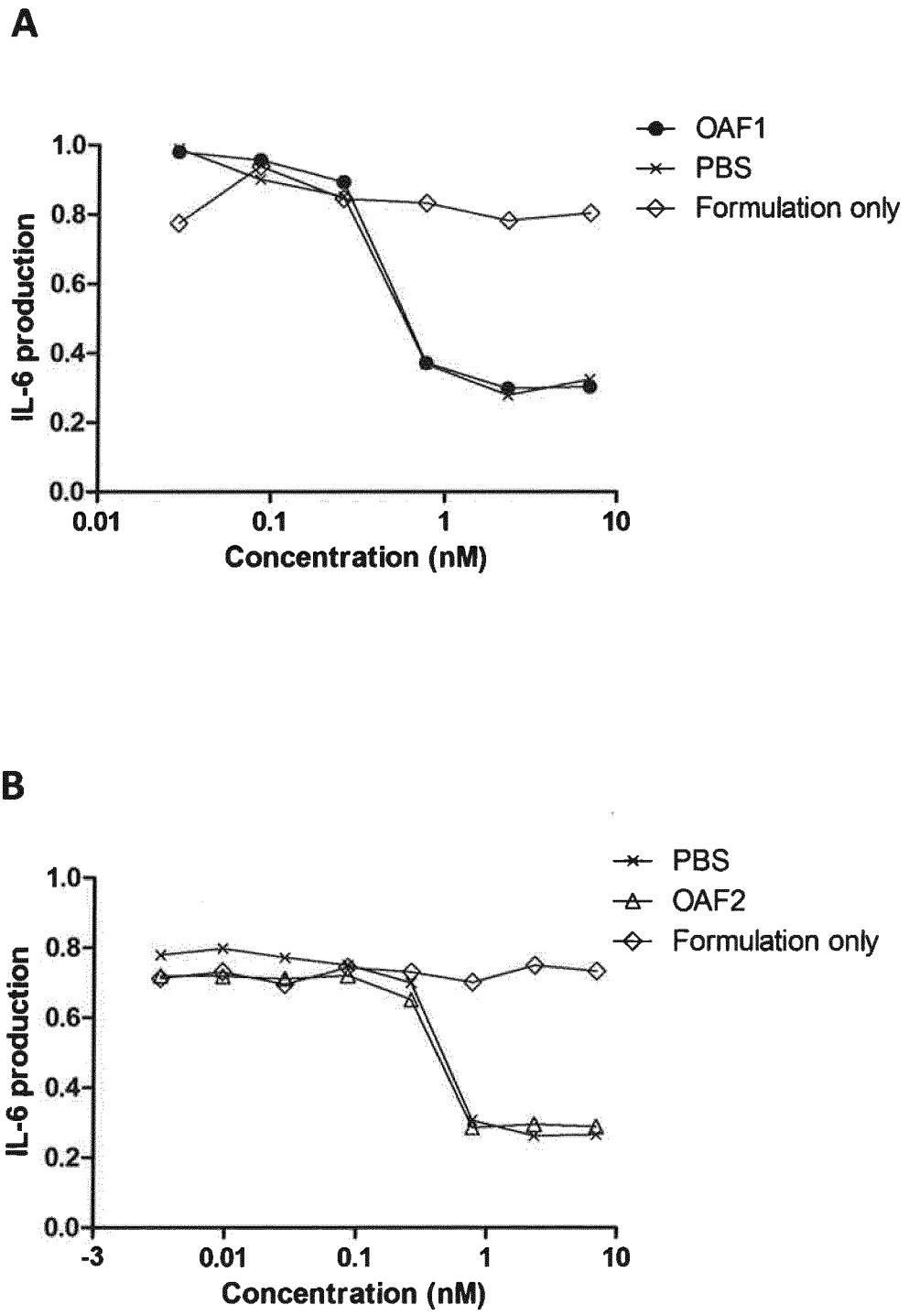

A
IL-6 production
1.0
0.8
0.6
0.4
0.2
0.0
0.01
0.1
1
10
Concentration (nM)
OAF1
PBS
Formulation only
B
IL-6 production
1.0
0.8
0.6
0.4
0.2
0.0
-3
0.01
0.1
1
10
Concentration (nM)
PBS
OAF2
Formulation only

Figure 12

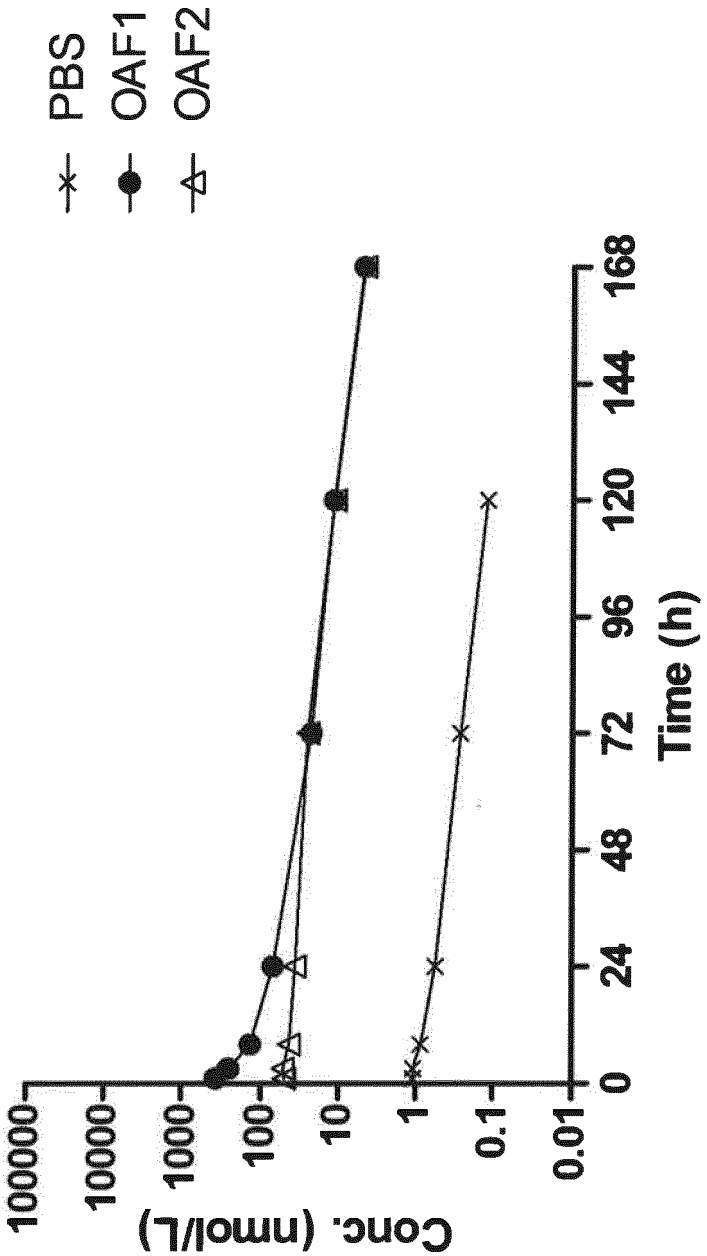
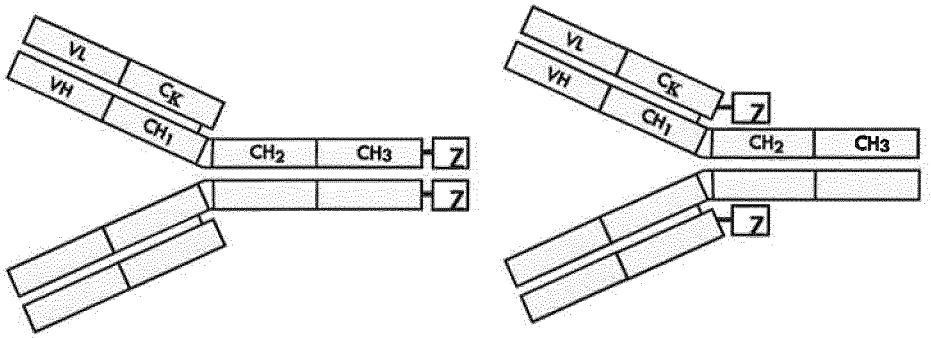

PBS
OAF1
OAF2
Conc. (nmol/L)
100000
10000
1000
100
10
1
0.1
0.01
0
24
48
72
96
120
144
168
Time (h)

Figure 13A-B

A



B

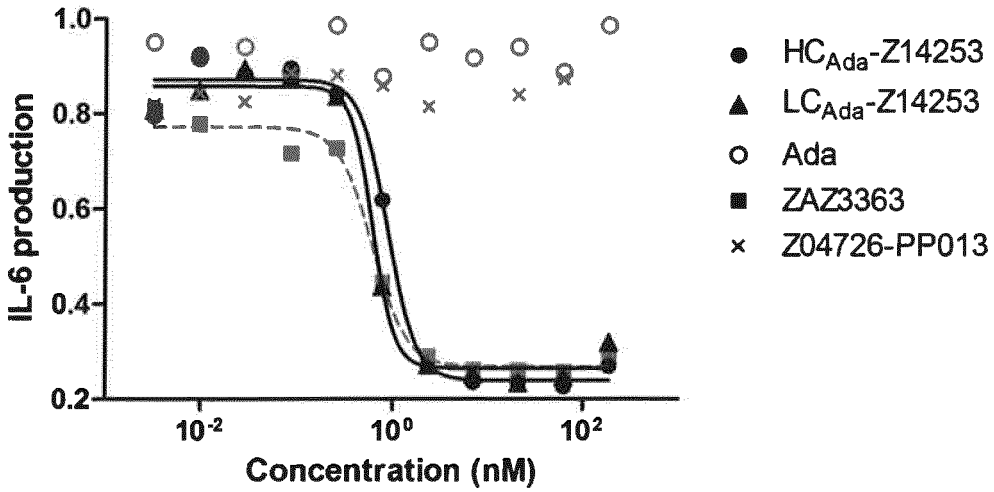
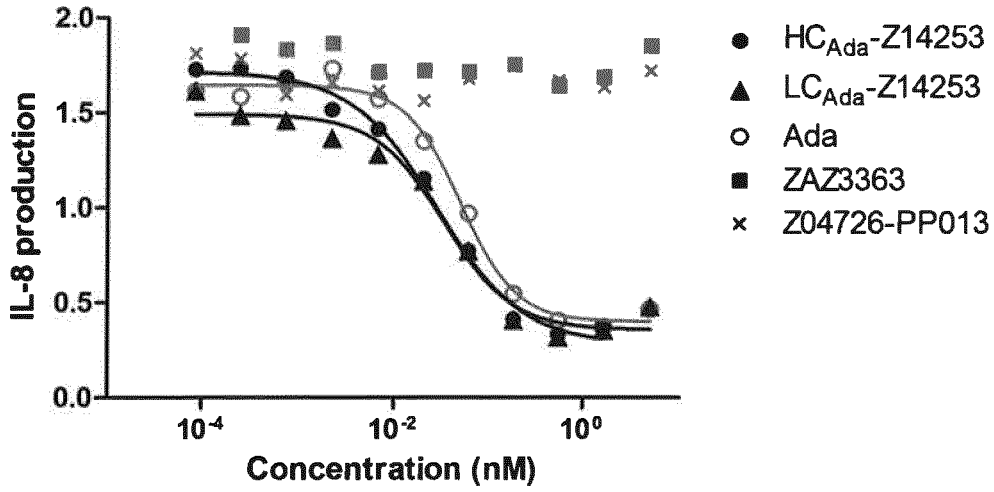


Figure 13C-D

C



D

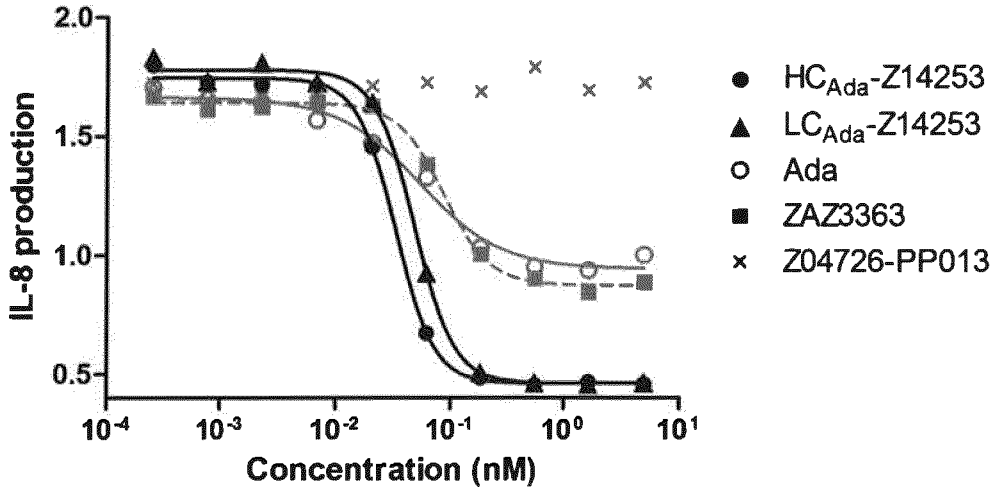


Figure 14A-B

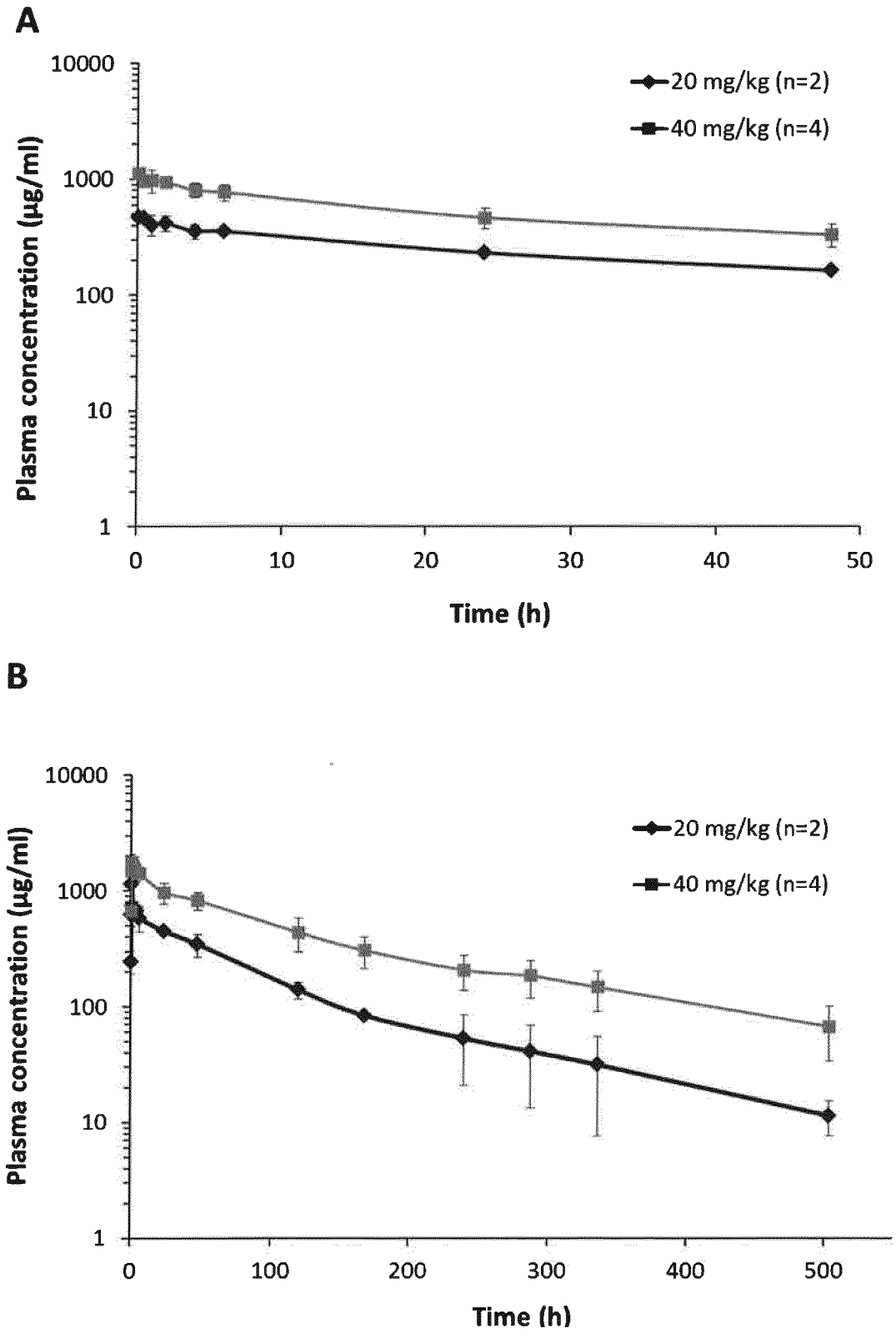
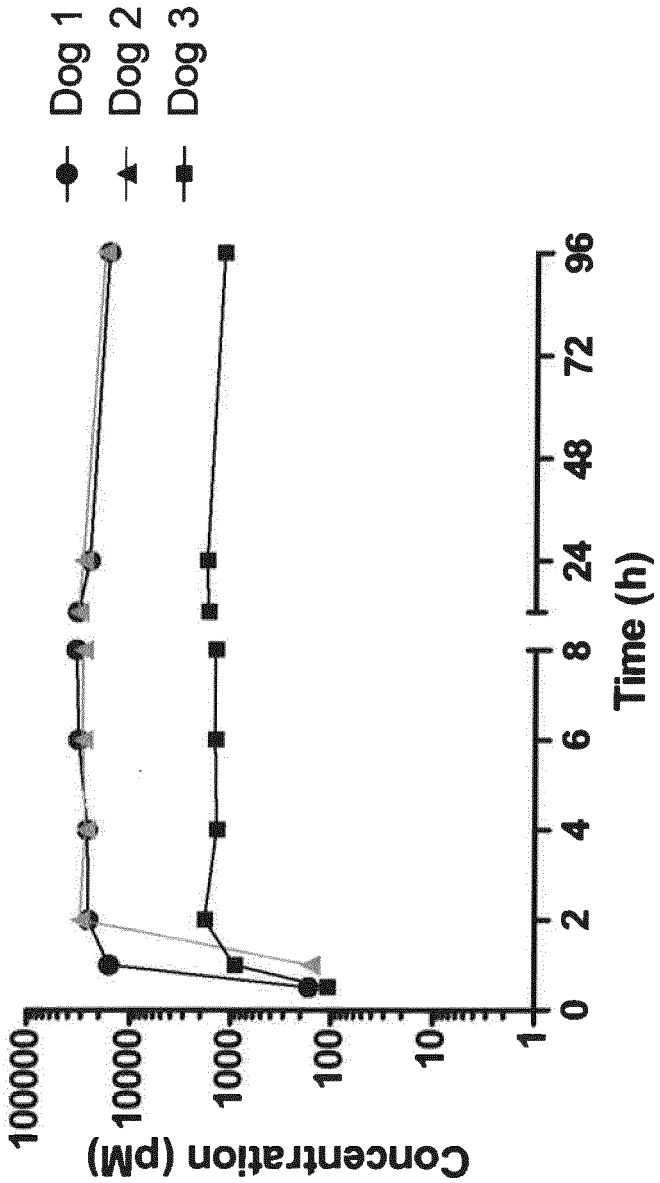

A
10000
1000
100
10
1
Plasma concentration (µg/ml)
20 mg/kg (n=2)
40 mg/kg (n=4)
0
10
20
30
40
50
Time (h)
B
10000
1000
100
10
1
Plasma concentration (µg/ml)
20 mg/kg (n=2)
40 mg/kg (n=4)
0
100
200
300
400
500
Time (h)

Figure 15


Dog 1
Dog 2
Dog 3
Concentration (pM)
100000
10000
1000
100
10
1
0
2
4
6
8
24
48
72
96
Time (h)

SEQUENCE LISTING

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<120> NEW POLYPEPTIDE

<130> 21079404

<150> EP15150786.0
<151> 2015-01-12

<160> 1294

<170> PatentIn version 3.5

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<212> PRT
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

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<400> 2

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 3

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<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 3

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

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<220>
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<400> 4

```
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1               5                   10                  15


Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 5
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<220>
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<400> 5

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30
```

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

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<400> 6

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 7
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<212> PRT
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<220>
<223> Engineered IL-17A binding polypeptide

<400> 7

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 8
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<212> PRT
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<220>
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<400> 8

```
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1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 9
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<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 9

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 10
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<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
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<400> 10

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
```

50 55

<210> 11
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<220>
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<400> 11

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1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 12
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<212> PRT
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<220>
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<400> 12

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 13
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 13

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

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Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 14
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 14

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 15
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 15

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 16
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 16

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 17
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 17

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 18
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 18

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 19
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 19

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 20
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 20

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 21
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 21

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 22
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 22

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 23
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 23

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 24
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 24

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 25
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 25

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 26
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 26

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 27
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 27

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 28
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 28

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ile
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 29
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 29

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Arg
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 30
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 30

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Val Gln Trp Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 31
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 31

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 32
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 32

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Glu Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 33
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 33

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 34
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 34

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile

1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 35
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 35

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 36
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 36

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 37

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 37

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 38
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 38

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 39
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 39

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Val Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 40
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 40

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 41
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 41

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 42
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 42

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 43
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 43

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 44
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 44

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 45
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 45

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 46
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 46

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 47
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 47

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 48
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 48

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Met Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 49
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 49

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 50
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 50

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 51
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 51

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 52
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 52

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 53
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 53

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 54
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 54

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 55
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 55

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 56
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 56

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Phe Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 57
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 57

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 58
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 58

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 59
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 59

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 60
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 60

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 61
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 61

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 62
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 62

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Ala Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 63
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 63

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 64
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 64

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 65
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 65

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Leu Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 66
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 66

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 67
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 67

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 68
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 68

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Trp Glu Ile

1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 69
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 69

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 70
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 70

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Asn Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 71

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 71

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Ser Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 72
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 72

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 73
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 73

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Ala Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 74
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 74

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Asn Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 75
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 75

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Ile Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Val Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 76
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 76

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 77
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 77

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 78
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 78

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 79
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 79

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Val
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 80
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
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<400> 80

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Ser Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 81
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 81

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

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Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 82
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 82

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 83
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 83

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Tyr Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 84
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 84

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ile
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 85
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 85

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Ala Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 86
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 86

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Val Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 87
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 87

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 88
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 88

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Ala Gln Trp Ser Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 89
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 89

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 90
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 90

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ser Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 91
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 91

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 92
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 92

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 93
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 93

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ile
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 94
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 94

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp His Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 95
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 95

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 96
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 96

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Val Gln Trp Ser Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 97
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 97

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 98
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 98

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 99
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 99

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Arg
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 100
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 100

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Val
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 101
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 101

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 102
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 102

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile

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1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Arg Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 103
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 103

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 104
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 104

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Val
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 105

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 105

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 106
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 106

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Arg Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 107
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 107

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp His Gln Trp Asn Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 108
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 108

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Arg Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 109
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 109

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 110
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 110

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp His Gln Trp His Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 111
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 111

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Thr Ala Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 112
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 112

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ile
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 113
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 113

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 114
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 114

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 115
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 115

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Val Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 116
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 116

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 117
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 117

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1   5   10   15

Trp Ser Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Val
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 118
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 118

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 119
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 119

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Gln Lys Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 120
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 120

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 121
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 121

Val Asp Ala Lys Tyr Ala Lys Glu Met Ala Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Ala Gln Gly Asn Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 122
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 122

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 123
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 123

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Val Asp Ala Lys Tyr Ala Lys Glu Met Ala Tyr Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly His Ala Phe Ile Val
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  124
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  124

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Tyr Val Gln Gln Val Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  125
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  125

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile His
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 126
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 126

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 127
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 127

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 128
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 128

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Glu Leu Pro Asn Leu Thr Trp Asp Gln Gln Tyr Ala Phe Ile Gln

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 129
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 129

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Ala Gln Ala Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 130
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 130

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 131
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 131

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 132
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 132

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 133
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 133

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr Trp Ala Gln Ser His Ala Phe Ile Ser
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 134
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 134

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 135
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 135

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Gln Thr Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 136
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 136

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile

1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 137
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 137

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Asp Gln Gly Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 138
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 138

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 139

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 139

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Phe Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 140
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 140

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Gln Lys Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 141
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 141

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 142
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 142

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Asp Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ala Tyr Ala Phe Ile Val
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 143
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 143

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Tyr Ala Gln Leu Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 144
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 144

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Thr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 145
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 145

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 146
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 146

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 147
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 147

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 148
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 148

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 149
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 149

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser His Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 150
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 150

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Arg Gln Gln Arg Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 151
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 151

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 152
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 152

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp His Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 153
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 153

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Ile Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 154
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 154

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gly Thr Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 155
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 155

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ala His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 156
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 156

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 157
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 157

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Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Arg
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 158
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 158

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Val
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 159
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 159

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1               5                   10                  15

Trp Thr Leu Pro Asn Leu Thr Tyr Ala Gln Ala Arg Ala Phe Ile Val
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 160
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 160

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Gln Asn Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 161
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 161

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Ala Gln Gly Asn Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 162
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 162

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Gln

20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 163
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 163

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 164
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 164

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Asn Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 165
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 165

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 166
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 166

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 167
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 167

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Tyr Ala Phe Ile His
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 168
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 168

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 169
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 169

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 170
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 170

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile

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1               5                   10                  15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Arg
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 171
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 171

```
Val Asp Ala Lys Tyr Ala Lys Glu His Asp Gln Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Val
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 172
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 172

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Tyr Ala Phe Ile Val
            20                  25                  30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 173

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 173

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 174
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 174

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His His Gln Ala Lys Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 175
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 175

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 176
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 176

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Gly Lys Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 177
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 177

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Tyr Ala Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 178
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 178

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gln Ser Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 179
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 179

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 180
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 180

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 181
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 181

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 182
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 182

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 183
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 183

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Gln
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 184
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 184

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 185
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 185

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gln Asn Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 186
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 186

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gln Thr Ala Phe Ile His
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 187
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 187

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Ala Gln Ser Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 188
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 188

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His His Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  189
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  189

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Arg Ala Phe Ile Gln
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  190
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  190

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Thr Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Val
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  191
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  191
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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His His Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 192
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 192

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 193
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 193

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Arg Ala Gln Ala Thr Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 194
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 194

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Ala Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 195
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 195

Val Asp Ala Lys Tyr Ala Lys Glu Ala Gly Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Arg Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 196
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 196

Val Asp Ala Lys Tyr Ala Lys Glu His Gly Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Val

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 197
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 197

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Gly Lys Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 198
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 198

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 199
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 199

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 200
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 200

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Ser Arg Ala Phe Ile Gly
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 201
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 201

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Val Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 202
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 202

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Ser Lys Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 203
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 203

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 204
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 204

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Leu Tyr Ala Trp Met Glu Ile

1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 205
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 205

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Gly Lys Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 206
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 206

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 207

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 207

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 208
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 208

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 209
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 209

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 210
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 210

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 211
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 211

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Ser
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 212
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 212

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Lys Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 213
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 213

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 214
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 214

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Asp Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 215
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 215

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 216
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 216

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 217
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 217

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 218
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 218

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Tyr Ala Phe Ile His
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 219
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 219

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 220
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 220

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Asp Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 221
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 221

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 222
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 222

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Thr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 223
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 223

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 224
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 224

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 225
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 225

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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Gly Asn Ala Phe Ile Arg
            20                  25                  30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 226
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 226

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Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asn Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Arg Ala Phe Ile Val
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 227
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 227

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Gly His Ala Phe Ile Arg
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 228
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 228

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Leu Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 229
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 229

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 230
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 230

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Ser

20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 231
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 231

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 232
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 232

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 233
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 233

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Tyr Ala Phe Ile His
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 234
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 234

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gln Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 235
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 235

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Tyr Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 236
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 236

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 237
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 237

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 238
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 238

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile

1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 239
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 239

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 240
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 240

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly Thr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 241

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 241

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 242
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 242

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 243
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 243

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Arg Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 244
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 244

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Phe Ala Trp Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Val
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 245
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 245

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Arg
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 246
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 246

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Gly
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 247
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 247

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 248
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 248

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Arg Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 249
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 249

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 250
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 250

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 251
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 251

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Ala Gln Gly Arg Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 252
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 252

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile Gln
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 253
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 253

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 254
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 254

Val Asp Ala Lys Tyr Ala Lys Glu Met Asn Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 255
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 255

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 256
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 256

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp His Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

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        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  257
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  257

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gln Arg Ala Phe Ile Ala
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  258
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  258

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Gln
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  259
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  259
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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Val
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  260
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  260

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Arg
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  261
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  261

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Ala Leu Pro Asn Leu Thr Tyr Ala Gln Ala Val Ala Phe Ile Arg
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 262
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 262

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 263
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 263

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 264
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 264

Val Asp Ala Lys Tyr Ala Lys Glu Ala Ala Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Arg

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 265
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 265

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Ala Gln Ala Phe Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 266
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 266

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 267
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 267

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Phe Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Ala Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 268
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 268

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Glu Ala Gln Leu Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 269
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 269

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly Thr Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 270
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 270

Val Asp Ala Lys Tyr Ala Lys Glu Ala Gly Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ala Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 271
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 271

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Ala Lys Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 272
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 272

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile

1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Ala Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 273
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 273

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 274
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 274

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr His Asp Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 275

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 275

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Ala Ser Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 276
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 276

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 277
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 277

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr His Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 278
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 278

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 279
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 279

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 280
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 280

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ser Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 281
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 281

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 282
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 282

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 283
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 283

Val Asp Ala Lys Tyr Ala Lys Glu Ala Ala Glu Ala Gln Leu Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Ile
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 284
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 284

Val Asp Ala Lys Tyr Ala Lys Glu Met Ala Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 285
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 285

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

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Trp Met Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  286
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  286

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ala Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  287
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  287

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Glu Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Ile
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  288
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 288

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 289
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 289

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 290
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 290

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 291
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 291

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 292
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 292

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 293
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 293

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  294
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  294

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  295
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  295

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Trp Ala Gln Ser His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 296
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 296

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Arg Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 297
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 297

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 298
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 298

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ala Thr Ala Phe Ile His

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 299
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 299

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 300
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 300

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 301
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 301

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Arg Ala Phe Ile Ile
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 302
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 302

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Val
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 303
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 303

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Lys Ala Phe Ile Ala
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 304
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 304

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 305
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 305

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 306
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 306

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Glu Ala Gln Ile Glu Ile

1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 307
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 307

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Ala Arg Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 308
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 308

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 309

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 309

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Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Ile
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 310
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 310

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Thr Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Arg
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 311
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 311

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Arg
            20                  25                  30
```

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 312
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 312

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 313
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 313

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile Ser
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 314
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 314

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 315
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 315

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 316
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 316

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Gln Phe Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 317
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 317

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 318
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 318

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 319
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 319

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 320
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 320

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Ala His Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 321
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 321

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 322
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 322

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Tyr Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 323
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 323

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Leu Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 324
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 324

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Arg Asp Gln Gln Thr Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  325
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  325

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ser Leu Pro Asn Leu Thr Tyr Ala Gln Gln Tyr Ala Phe Ile Val
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  326
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  326

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ser Leu Pro Asn Leu Thr His Val Gln Gln Val Ala Phe Ile Arg
            20                  25                  30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  327
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  327
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Gln
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 328
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 328

```
Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Met Leu Pro Asn Leu Thr Arg Asp Gln Ala Ser Ala Phe Ile Ile
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 329
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 329

```
Val Asp Ala Lys Tyr Ala Lys Glu His Ala Asp Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Ser Leu Pro Asn Leu Thr His Val Gln Ala Arg Ala Phe Ile Ile
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 330
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 330

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gln Thr Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 331
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 331

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Thr Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 332
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 332

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Glu Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile Arg

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 333
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 333

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Thr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 334
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 334

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 335
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 335

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1   5   10   15

Trp Ser Leu Pro Asn Leu Thr His Val Gln Gln Val Ala Phe Ile Arg
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 336
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 336

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Ala
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 337
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 337

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Gly
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 338
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 338

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 339
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 339

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His His Gln Ala Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 340
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 340

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile

1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala His Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 341
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 341

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 342
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 342

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 343

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 343

Val Asp Ala Lys Tyr Ala Lys Glu His Gly Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 344
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 344

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Val Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 345
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 345

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Gly Arg Ala Phe Ile Gly
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 346
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 346

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Val Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 347
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 347

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 348
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 348

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Gly Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 349
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 349

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Ala Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 350
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 350

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 351
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 351

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Trp Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 352
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 352

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Arg Gln Gln Val Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 353
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 353

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Thr Ala Phe Ile Val
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 354
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 354

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Arg
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 355
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 355

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His His Gln Ala Val Ala Phe Ile His
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 356
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 356

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr His Asp Gln Gln Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 357
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 357

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 358
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 358

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Asp Gln Gly Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 359
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 359

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 360
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 360

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Lys Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 361
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 361

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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Ala
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  362
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  362

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Ser Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Arg
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  363
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  363

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 364
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 364

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 365
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 365

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 366
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 366

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Ile

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 367
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 367

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 368
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 368

Val Asp Ala Lys Tyr Ala Lys Glu Met Leu Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 369
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 369

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Trp Phe Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr Tyr Ala Gln Gln His Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 370
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 370

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Gln Lys Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 371
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 371

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Ile Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gly Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 372
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 372

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ser His Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 373
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 373

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 374
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 374

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile

1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 375
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 375

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Thr Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 376
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 376

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gly Thr Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 377

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 377

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Ala His Ala Phe Ile Ile
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 378
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 378

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 379
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 379

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 380
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 380

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Ile
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 381
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 381

Val Asp Ala Lys Tyr Ala Lys Glu Ala Ala Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 382
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 382

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Val Gln Gln Arg Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 383
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 383

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp His Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 384
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 384

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 385
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 385

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 386
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 386

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Gln Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Ala Arg Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 387
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 387

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 388
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 388

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 389
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 389

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 390
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 390

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Ala Phe Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 391
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 391

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 392
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 392

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Val Gln Ala Lys Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 393
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 393

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 394
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 394

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ala Tyr Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 395
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 395

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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1               5                   10                  15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gln His Ala Phe Ile Gln
            20                  25                  30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 396
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 396

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1               5                   10                  15

Trp Ser Leu Pro Asn Leu Thr His Val Gln Ala Arg Ala Phe Ile Ile
            20                  25                  30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 397
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 397

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Val Asp Ala Lys Tyr Ala Lys Glu His Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15

Trp Thr Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Ser
            20                  25                  30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 398
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 398

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 399
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 399

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Arg Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 400
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 400

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Ala

20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 401
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 401

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 402
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 402

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 403
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 403

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Lys Ala Phe Ile His
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 404
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 404

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Val Ala Phe Ile Gln
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 405
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 405

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Ala
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 406
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 406

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 407
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 407

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr His Asp Gln Gln Tyr Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 408
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 408

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile

1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Val Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 409
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 409

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 410
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 410

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Gln Ala Gln Leu Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 411

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 411

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Ser
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 412
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 412

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Val
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 413
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 413

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
            20                  25                  30
```

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 414
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 414

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Arg Asp Gln Gln Arg Ala Phe Ile Ile
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 415
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 415

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr Trp Val Gln Ala Arg Ala Phe Ile Val
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 416
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 416

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr His Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 417
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 417

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 418
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 418

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 419
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 419

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Ile Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 420
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 420

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr His Gln Gln Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 421
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 421

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 422
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 422

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gln Phe Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 423
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 423

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Glu Ala Gln Leu Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 424
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 424

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 425
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 425

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Gly Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 426
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 426

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 427
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 427

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Asp Gln Gln Val Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 428
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 428

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 429
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 429

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Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  430
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  430

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Val
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  431
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  431

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile Val
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 432
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 432

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ala Thr Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 433
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 433

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gly Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 434
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 434

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Ser

20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 435
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 435

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr His Ala Gln Ala Tyr Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 436
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 436

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asn Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Ala Gln Ala Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 437
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 437

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Tyr Ala Gln Ser His Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 438
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 438

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Arg Asp Gln Ala Thr Ala Phe Ile Ile
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 439
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 439

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr Trp His Gln Ala Thr Ala Phe Ile Ile
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 440
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 440

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Ser
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 441
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 441

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Ser Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 442
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 442

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile

1 5 10 15

Trp Glu Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 443
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 443

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gly Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 444
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 444

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 445

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 445

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 446
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 446

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 447
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 447

Val Asp Ala Lys Tyr Ala Lys Glu His Gly Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 448
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 448

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Ser Asn Ala Phe Ile Ala
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 449
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 449

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Val
            20   25   30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 450
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 450

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 451
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 451

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Asp Gln Gly Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 452
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 452

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ala Thr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 453
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 453

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln His Ala Phe Ile Ile
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 454
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 454

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 455
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 455

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

```
Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  456
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  456

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Gln Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ala Val Ala Phe Ile Ile
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  457
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  457

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Asp Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Asn Ala Phe Ile Arg
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  458
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 458

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Ser
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 459
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 459

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Trp His Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 460
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 460

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 461
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 461

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly His Ala Phe Ile Ser
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 462
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 462

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 463
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 463

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 464
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 464

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 465
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 465

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Tyr Val Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 466
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 466

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Gly
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 467
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 467

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ser His Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 468
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 468

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Arg Ala Phe Ile His

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 469
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 469

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 470
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 470

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr His Gln Ala Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 471
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 471

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Ala Val Ala Phe Ile Gly
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 472
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 472

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Arg Ala Gln Leu Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gly Asn Ala Phe Ile Arg
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 473
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 473

Val Asp Ala Lys Tyr Ala Lys Glu Met Asn Gln Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser His Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 474
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 474

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Arg Gln Gln Arg Ala Phe Ile Ile
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 475
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 475

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Ser
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 476
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 476

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile

1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 477
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 477

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gly Asn Ala Phe Ile Gln
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 478
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 478

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 479

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 479

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 480
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 480

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp Ala Gln Gln Arg Ala Phe Ile Gly
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 481
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 481

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Ala
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 482
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 482

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Ala Val Ala Phe Ile Arg
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 483
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 483

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Arg Ala Phe Ile Ser
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 484
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 484

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ala His Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 485
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 485

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Phe Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 486
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 486

Val Asp Ala Lys Tyr Ala Lys Glu Trp Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 487
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 487

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Arg Ala Gln Ile Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gly Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 488
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 488

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Gln Trp Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 489
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 489

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gln Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 490
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 490

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr His Asp Gln Ala Lys Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 491
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 491

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Arg
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 492
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 492

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Val Gln Gln Asn Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 493
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 493

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ala Val Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 494
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 494

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Arg Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 495
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 495

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Arg
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 496
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 496

Val Asp Ala Lys Tyr Ala Lys Glu Met Asn Glu Ala Gln Leu Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gly His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 497
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 497

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Trp Glu Ile
1               5                   10                  15


Trp Ala Leu Pro Asn Leu Thr His His Gln Ala Val Ala Phe Ile Arg
            20                  25                  30


Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  498
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  498

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Arg Gln Ala Arg Ala Phe Ile Ile
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  499
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  499

Val Asp Ala Lys Tyr Ala Lys Glu Met Gly Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln His Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 500
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 500

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Ala Asp Gln Gln Arg Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 501
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 501

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Gln Val Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 502
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 502

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln Arg Ala Phe Ile Ser

20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 503
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 503

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Glu Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Arg Asp Gln Gly Lys Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 504
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 504

Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Asp Ala Trp Phe Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Ala Arg Ala Phe Ile Val
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 505
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 505

Val Asp Ala Lys Tyr Ala Lys Glu His Ala Glu Ala Trp Phe Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Tyr Arg Gln Gln Val Ala Phe Ile Ser
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 506
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 506

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1   5   10   15

Trp Met Leu Pro Asn Leu Thr Arg Asp Gln Ala Val Ala Phe Ile Gly
            20   25   30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 507
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 507

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln Lys Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 508
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 508

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Met Leu Pro Asn Leu Thr Tyr Ala Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 509
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 509

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr His Ala Gln Gly Arg Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 510
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 510

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile

1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Ser Asn Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 511
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 511

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Tyr Ala Gln Ser Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 512
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 512

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Arg Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 513

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 513

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Gln Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Tyr Asp Gln Gly Arg Ala Phe Ile Gln
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 514
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 514

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Tyr Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr His Asp Gln Ser Arg Ala Phe Ile Ser
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 515
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 515

```
Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Gln Trp Glu Ile
1               5                   10                  15


Trp Met Leu Pro Asn Leu Thr His Ala Gln Ser Arg Ala Phe Ile Gln
            20                  25                  30
```

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 516
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 516

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Glu Ala Trp Trp Glu Ile
1   5   10   15

Trp Thr Leu Pro Asn Leu Thr Tyr Asp Gln Ala Arg Ala Phe Ile Val
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 517
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 517

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1   5   10   15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Arg Ala Phe Ile Gln
            20   25   30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 518
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 518

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Thr Leu Pro Asn Leu Thr Arg Asp Gln Ala Arg Ala Phe Ile His
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 519
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 519

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Asp Gln Ser Arg Ala Phe Ile Val
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 520
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 520

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 521
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 521

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 522
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 522

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 523
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 523

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 524
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 524

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 525
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 525

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 526
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 526

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Phe Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 527
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 527

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 528
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 528

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  529
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  529

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  530
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  530

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  531
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  531
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```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Leu Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 532
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 532

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 533
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 533

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 534
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 534

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ile Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 535
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 535

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 536
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 536

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 537
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 537

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 538
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 538

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 539
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 539

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 540
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 540

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 541
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 541

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Met Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Trp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 542
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 542

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 543
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 543

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 544
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 544

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 545
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 545

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 546
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 546

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 547

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 547

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 548
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 548

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 549
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 549

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 550
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 550

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 551
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 551

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 552
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 552

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 553
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 553

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 554
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 554

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 555
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 555

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 556
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 556

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 557
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 557

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 558
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 558

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Ala Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 559
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 559

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 560
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 560

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 561
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 561

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 562
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 562

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

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        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  563
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  563

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  564
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  564

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  565
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  565
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 566
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 566

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 567
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 567

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 568
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 568

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 569
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 569

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 570
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 570

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile His

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 571
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 571

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 572
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 572

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 573
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 573

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 574
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 574

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Tyr Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 575
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 575

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 576
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 576

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Met Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 577
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 577

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 578
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 578

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 579
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 579

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Ala Gln Trp Glu Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 580
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 580

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 581

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 581

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 582
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 582

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 583
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 583

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 584
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 584

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 585
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 585

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Phe Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 586
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 586

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 587
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 587

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Glu Gln Trp Leu Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 588
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 588

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 589
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 589

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 590
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 590

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 591
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 591

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 592
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 592

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1   5   10   15

Ala Tyr Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 593
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 593

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 594
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 594

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 595
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 595

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 596
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 596

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

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        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 597
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 597

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 598
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 598

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Leu Gln Trp Glu Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 599
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 599

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 600
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 600

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 601
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 601

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Gln Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 602
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 602

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 603
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 603

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Ala Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 604
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 604

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Met

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 605
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 605

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Val Gln Trp Asp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 606
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 606

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 607
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 607

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 608
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 608

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 609
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 609

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Ala
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 610
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 610

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Ile Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 611
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 611

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 612
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 612

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile

1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 613
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 613

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 614
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 614

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Ala Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 615

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 615

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 616
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 616

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 617
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 617

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 618
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 618

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 619
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 619

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Ile Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 620
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 620

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 621
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 621

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 622
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 622

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 623
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 623

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 624
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 624

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 625
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 625

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Met Glu Ile
1 5 10 15

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Ala Glu Leu Pro Asn Leu Thr Trp Ile Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  626
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  626

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  627
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  627

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  628
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 628

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 629
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 629

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ile Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 630
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 630

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 631
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 631

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 632
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 632

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 633
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 633

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 634
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 634

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 635
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 635

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 636
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 636

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 637
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 637

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 638
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 638

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Phe

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 639
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 639

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Asp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 640
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 640

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 641
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 641

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Leu Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 642
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 642

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 643
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 643

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 644
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 644

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Glu Gln Trp Met Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 645
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 645

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 646
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 646

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile

```
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Met
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 647
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 647

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 648
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 648

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 649

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 649

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Ala Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 650
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 650

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 651
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 651

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 652
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 652

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 653
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 653

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 654
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 654

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 655
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 655

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 656
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 656

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
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50 55

<210> 657
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 657

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 658
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 658

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 659
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 659

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

```
Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  660
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  660

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Trp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  661
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  661

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  662
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 662

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 663
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 663

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 664
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 664

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 665
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 665

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 666
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 666

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 667
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 667

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 668
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 668

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 669
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 669

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 670
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 670

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 671
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 671

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 672
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 672

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Thr

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 673
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 673

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 674
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 674

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 675
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 675

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 676
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 676

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 677
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 677

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 678
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 678

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 679
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 679

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 680
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 680

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 681
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 681

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 682
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 682

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 683

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 683

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 684
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 684

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 685
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 685

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 686
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 686

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 687
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 687

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 688
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 688

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 689
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 689

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 690
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 690

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 691
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 691

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 692
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 692

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 693
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 693

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Lys
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 694
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 694

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Val Gln Trp Glu Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 695
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 695

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 696
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 696

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 697
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 697

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 698
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 698

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 699
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 699

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 700
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 700

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 701
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 701

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gly
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  702
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  702

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  703
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  703

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 704
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 704

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 705
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 705

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 706
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 706

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 707
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 707

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 708
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 708

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 709
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 709

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1   5   10   15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 710
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 710

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 711
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 711

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Ala
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 712
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 712

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 713
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 713

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 714
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 714

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Trp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 715
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 715

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 716
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 716

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 717

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 717

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 718
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 718

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 719
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 719

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 720
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 720

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 721
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 721

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 722
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 722

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 723
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 723

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 724
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 724

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 725
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 725

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 726
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 726

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 727
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 727

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

```
Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 728
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 728

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 729
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 729

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 730
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 730

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 731
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 731

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Tyr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 732
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 732

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  733
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  733

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Lys
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  734
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  734

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  735
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  735
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  736
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  736

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  737
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  737

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15


Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 738
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 738

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 739
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 739

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 740
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 740

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asp

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 741
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 741

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Ala Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 742
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 742

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 743
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 743

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 744
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 744

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 745
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 745

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 746
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 746

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 747
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 747

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 748
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 748

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 749
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 749

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 750
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 750

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 751

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 751

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 752
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 752

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 753
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 753

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 754
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 754

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 755
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 755

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Met Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 756
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 756

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 757
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 757

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Leu Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 758
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 758

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 759
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 759

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Trp Gln Trp Glu Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 760
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 760

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 761
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 761

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

```
Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 762
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 762

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 763
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 763

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 764
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 764

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ile Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 765
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 765

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 766
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 766

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 767
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 767

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 768
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 768

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 769
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 769

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 770
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 770

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 771
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 771

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 772
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 772

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 773
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 773

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 774
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 774

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Glu Gln Trp His Ala Phe Ile Glu

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 775
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 775

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Leu Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 776
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 776

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 777
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 777

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 778
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 778

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 779
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 779

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Met Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 780
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 780

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 781
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 781

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 782
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 782

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile

1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 783
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 783

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 784
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 784

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 785

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 785

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 786
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 786

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 787
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 787

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 788
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 788

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Val Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 789
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 789

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 790
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 790

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 791
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 791

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ala Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 792
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 792

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 793
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 793

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 794
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 794

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 795
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 795

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Trp Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 796
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 796

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 797
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 797

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 798
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 798

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 799
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 799

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 800
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 800

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 801
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 801

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 802
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 802

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 803
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 803

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 804
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 804

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 805
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 805

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Ile Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 806
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 806

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 807
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 807

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 808
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 808

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 809
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 809

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 810
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 810

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 811
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 811

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1   5   10   15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 812
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 812

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 813
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 813

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 814
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 814

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 815
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 815

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 816
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 816

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile

1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 817
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 817

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Met Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 818
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 818

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 819

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 819

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 820
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 820

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 821
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 821

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Ala
            20                  25                  30
```

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 822
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 822

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 823
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 823

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 824
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 824

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 825
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 825

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 826
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 826

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 827
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 827

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 828
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 828

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 829
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 829

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 830
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 830

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 831
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 831

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Tyr Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Gln Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 832
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 832

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Trp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 833
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 833

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 834
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 834

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  835
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  835

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  836
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  836

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  837
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  837
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```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 838
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 838

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 839
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 839

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 840
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 840

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 841
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 841

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 842
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 842

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 843
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 843

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 844
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 844

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 845
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 845

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Arg
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 846
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 846

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 847
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 847

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15


Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45
```

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 848
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 848

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 849
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 849

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Leu Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 850
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 850

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile

1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 851
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 851

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 852
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 852

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 853

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 853

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 854
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 854

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 855
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 855

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 856
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 856

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 857
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 857

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 858
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 858

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 859
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 859

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 860
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 860

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
```

50 55

<210> 861
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 861

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 862
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 862

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 863
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 863

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Leu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 864
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 864

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Ile Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 865
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 865

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 866
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 866

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 867
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 867

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 868
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 868

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 869
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 869

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Val Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 870
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 870

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 871
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 871

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 872
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 872

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 873
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 873

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 874
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 874

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 875
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 875

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 876
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 876

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 877
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 877

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 878
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 878

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 879
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 879

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 880
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 880

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1   5   10   15

Ala Asn Leu Pro Asn Leu Thr Trp Met Gln Trp Glu Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 881
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 881

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Tyr Gln Trp Trp Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

```
Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  882
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  882

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Thr
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  883
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  883

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  884
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  884

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Tyr Glu Ile
```

1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 885
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 885

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 886
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 886

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 887

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 887

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 888
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 888

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 889
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 889

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 890
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 890

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 891
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 891

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 892
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 892

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 893
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 893

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 894
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 894

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
```

50 55

<210> 895
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 895

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 896
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 896

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 897
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 897

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Val Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 898
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 898

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 899
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 899

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 900
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 900

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 901
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 901

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 902
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 902

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  903
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  903

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Leu Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  904
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  904

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Trp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  905
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  905
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```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 906
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 906

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Gln Leu Pro Asn Leu Thr Trp Val Gln Trp Ala Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 907
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 907

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 908
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 908

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 909
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 909

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 910
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 910

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 911
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 911

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 912
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 912

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 913
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 913

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 914
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 914

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ala Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 915
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 915

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Val Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

```
Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  916
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  916

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  917
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  917

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  918
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  918

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
```

1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 919
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 919

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Tyr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 920
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 920

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 921

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 921

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 922
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 922

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 923
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 923

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 924
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 924

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 925
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 925

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 926
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 926

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Trp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 927
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 927

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Leu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 928
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 928

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
```

50 55

<210> 929
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 929

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Met Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 930
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 930

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 931
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 931

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

```
Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 932
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 932

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 933
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 933

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 934
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 934

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 935
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 935

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 936
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 936

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  937
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  937

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Trp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  938
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  938

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  939
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  939
```

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 940
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 940

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Ile Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 941
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 941

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 942
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 942

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 943
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 943

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 944
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 944

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn

```
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 945
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 945

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1               5                   10                  15

Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 946
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 946

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile His
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 947
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 947

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 948
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 948

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 949
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 949

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1   5   10   15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Arg
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 950
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 950

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 951
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 951

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1   5   10   15

Ala Lys Leu Pro Asn Leu Thr Trp Tyr Gln Trp Glu Ala Phe Ile Tyr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 952
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 952

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile

1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 953
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 953

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 954
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 954

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 955

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 955

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Ile Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 956
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 956

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 957
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 957

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 958
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 958

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 959
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 959

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 960
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 960

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 961
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 961

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 962
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 962

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Phe Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 963
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 963

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 964
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 964

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 965
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 965

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 966
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 966

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 967
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 967

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 968
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 968

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 969
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 969

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 970
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 970

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 971
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 971

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Glu Gln Trp Ala Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 972
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 972

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Leu Gln Trp Glu Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 973
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 973

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 974
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 974

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 975
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 975

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 976
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 976

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 977
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 977

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 978
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 978

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 979
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 979

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 980
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 980

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 981
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 981

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 982
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 982

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 983
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 983

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 984
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 984

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 985
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 985

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Leu Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 986
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 986

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile

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1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  987
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  987

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Ile Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  988
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  988

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  989
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<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 989

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 990
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 990

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 991
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 991

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 992
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 992

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 993
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 993

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 994
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 994

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 995
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 995

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1               5                   10                  15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 996
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 996

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
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50 55

<210> 997
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 997

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 998
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 998

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 999
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 999

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

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Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1000
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1000

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1001
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1001

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1002
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1002

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Ala Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1003
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1003

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1004
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1004

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1005
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1005

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1006
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1006

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1007
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1007

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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Gln Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1008
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1008

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1009
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1009

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1010
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1010

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1011
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1011

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1012
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1012

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1013
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1013

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1014
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1014

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1015
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1015

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1016
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1016

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1017
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1017

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Leu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

```
Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1018
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1018

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1019
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1019

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1020
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1020

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
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1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1021
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1021

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1022
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1022

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1023

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1023

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1024
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1024

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1025
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1025

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1026
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1026

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Ile Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1027
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1027

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Glu Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1028
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1028

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Arg Leu Pro Asn Leu Thr Trp Leu Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1029
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1029

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1030
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1030

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1031
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1031

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1032
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1032

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Ile Gln Trp His Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1033
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1033

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Val Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1034
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1034

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1035
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1035

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Val Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1036
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1036

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1037
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1037

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1038
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1038

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1039
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1039

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1040
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1040

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1041
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1041

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Leu Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1042
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1042

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1043
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1043

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Met Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1044
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1044

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1045
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1045

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1046
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1046

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1047
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1047

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1048
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1048

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1049
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1049

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1   5   10   15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1050
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1050

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1   5   10   15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Glu
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1051
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1051

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1052
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1052

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1053
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1053

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1054
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1054

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile

1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1055
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1055

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1056
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1056

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1057

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1057

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1058
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1058

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1059
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1059

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1060
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1060

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Met Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1061
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1061

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1062
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1062

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1063
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1063

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1064
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1064

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Phe Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1065
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1065

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1066
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1066

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1067
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1067

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

```
Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1068
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1068

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1069
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1069

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1070
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1070

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1071
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1071

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1072
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1072

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1073
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1073

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Phe Leu Pro Asn Leu Thr Trp Glu Gln Trp Tyr Ala Phe Ile Glu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1074
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1074

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1075
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1075
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1076
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1076

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1077
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1077

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1078
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1078

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1079
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1079

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1080
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1080

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1081
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1081

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1082
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1082

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1083
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1083

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1084
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1084

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1   5   10   15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile His
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1085
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1085

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1086
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1086

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Ala Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1087
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1087

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1088
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1088

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Ile Glu Ile

1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1089
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1089

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Phe Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Leu Gln Trp Glu Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1090
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1090

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Met Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1091

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1091

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1092
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1092

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1093
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1093

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Leu Gln Trp Asp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1094
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1094

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Ile Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Phe
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1095
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1095

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Tyr Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1096
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1096

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1097
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1097

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Ile Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1098
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1098

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Phe
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1099
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1099

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Val Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1100
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1100

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala His Leu Pro Asn Leu Thr Trp Ile Gln Trp Glu Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1101
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1101

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Val Glu Ile
1 5 10 15

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Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1102
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1102

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Arg
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1103
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1103

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Leu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1104
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1104

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Leu Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1105
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1105

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Leu Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1106
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1106

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Ala Gln Trp His Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1107
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1107

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Val Ala Ala Ala Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Ala
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1108
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1108

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Met Gln Trp Glu Ala Phe Ile Ser
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1109
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1109
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```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15

Ala Lys Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1110
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1110

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Asn
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1111
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1111

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Tyr Glu Ile
1               5                   10                  15

Ala Gln Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1112
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1112

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1113
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1113

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Trp Gln Trp Glu Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1114
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1114

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1115
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1115

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1116
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1116

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ile Gln Trp Leu Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1117
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1117

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1   5   10   15

Ala Leu Leu Pro Asn Leu Thr Trp Phe Gln Trp Asp Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1118
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1118

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Met Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1119
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1119

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1   5   10   15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1120
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1120

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Leu Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1121
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1121

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1122
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1122

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Tyr Glu Ile

1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1123
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1123

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1124
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1124

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1125

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1125

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1126
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1126

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1127
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1127

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Ile Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1128
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1128

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Ile Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1129
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1129

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Lys
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1130
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1130

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Val Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1131
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1131

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1132
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1132

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1133
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1133

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1134
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1134

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Ala Gln Trp Ala Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1135
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1135

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

```
Ala Asn Leu Pro Asn Leu Thr Trp Ile Gln Trp Glu Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1136
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1136

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Leu Glu Ile
1               5                   10                  15


Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1137
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1137

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1               5                   10                  15


Ala His Leu Pro Asn Leu Thr Trp Leu Gln Trp Ala Ala Phe Ile Lys
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1138
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1138

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Met Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1139
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1139

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Tyr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1140
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1140

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Val Glu Ile
1 5 10 15

Ala Ile Leu Pro Asn Leu Thr Trp Ala Gln Trp Met Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1141
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1141

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1               5                   10                  15


Ala Asn Leu Pro Asn Leu Thr Trp Ile Gln Trp Trp Ala Phe Ile Arg
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1142
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1142

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Phe Glu Ile
1               5                   10                  15


Ala Ile Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Trp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1143
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1143
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Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Val Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1144
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1144

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Glu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1145
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1145

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1146
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1146

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Ile Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Tyr Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1147
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1147

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1148
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1148

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1149
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1149

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Met Glu Ile
1 5 10 15

Ala Trp Leu Pro Asn Leu Thr Trp Tyr Gln Trp Trp Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1150
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1150

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Tyr Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1151
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1151

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Leu Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1152
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1152

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Val Glu Ile
1   5   10   15

Ala Met Leu Pro Asn Leu Thr Trp Trp Gln Trp Glu Ala Phe Ile Met
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1153
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1153

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Ala Tyr Glu Ile
1   5   10   15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Tyr
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

```
Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1154
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1154

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Gln
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1155
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1155

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1               5                   10                  15


Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ala
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1156
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1156

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Phe Glu Ile
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1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Val Gln Trp Met Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1157
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1157

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala His Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Phe
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1158
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1158

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Leu Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1159

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1159

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Leu Gln Trp His Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1160
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1160

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Val Glu Ile
1 5 10 15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1161
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1161

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1162
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1162

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Leu Ala Ala Phe Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Glu Gln Trp Phe Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1163
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1163

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Met Glu Ile
1 5 10 15

Ala Val Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1164
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1164

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Ala Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Ile Gln Trp Asp Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1165
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1165

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Tyr Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1166
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1166

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1167
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1167

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Thr
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1168
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1168

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1169
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1169

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Val Glu Ile
1 5 10 15

```
Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Gln Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1170
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1170

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Ile Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1171
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1171

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Val Ala Ala Val Glu Ile
1               5                   10                  15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1172
<211> 58
<212> PRT

<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1172

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1173
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1173

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Val Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1174
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1174

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Ile Gln Trp Tyr Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

```
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1175
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1175

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Tyr Glu Ile
1               5                   10                  15


Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asp
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1176
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1176

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Met Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Ser
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1177
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1177
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```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Val Glu Ile
1               5                   10                  15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gly
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1178
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1178

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Leu Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Asp
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1179
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1179

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Phe Glu Ile
1               5                   10                  15

Ala Ala Leu Pro Asn Leu Thr Trp Phe Gln Trp Phe Ala Phe Ile His
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
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<210> 1180
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1180

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp His Ala Ala Met Glu Ile
1 5 10 15

Ala Met Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1181
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1181

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Phe Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Gly
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1182
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1182

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Met Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Leu Ala Phe Ile Asp

20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1183
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1183

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Thr Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Gln Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1184
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1184

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Tyr Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1185
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1185

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Phe Glu Ile
1   5   10   15

Ala Glu Leu Pro Asn Leu Thr Trp Leu Gln Trp His Ala Phe Ile Asn
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1186
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1186

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ser Ala Ala Leu Glu Ile
1   5   10   15

Ala Gly Leu Pro Asn Leu Thr Trp Val Gln Trp Trp Ala Phe Ile Gly
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1187
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1187

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Trp Ala Ala Val Glu Ile
1   5   10   15

Ala Asn Leu Pro Asn Leu Thr Trp Asp Gln Trp Asp Ala Phe Ile Asp
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1188
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1188

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Lys Ala Ala Leu Glu Ile
1 5 10 15

Ala Gln Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1189
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1189

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Met Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1190
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1190

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Val Ala Ala Val Glu Ile

1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Asn
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1191
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1191

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Phe Glu Ile
1 5 10 15

Ala Phe Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1192
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1192

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Met Glu Ile
1 5 10 15

Ala Val Leu Pro Asn Leu Thr Trp Asp Gln Trp Trp Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1193

<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1193

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ile Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Glu Gln Trp Trp Ala Phe Ile Trp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1194
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1194

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Arg Ala Ala Val Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp His Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1195
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1195

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Ala Ala Ala Tyr Glu Ile
1 5 10 15

Ala Tyr Leu Pro Asn Leu Thr Trp Ile Gln Trp Asp Ala Phe Ile His
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1196
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1196

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Ile Glu Ile
1 5 10 15

Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Ala Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1197
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1197

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gly Ala Ala Met Glu Ile
1 5 10 15

Ala Gly Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Met
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1198
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1198

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Trp Ala Ala Met Glu Ile
1 5 10 15

Ala Leu Leu Pro Asn Leu Thr Trp Asp Gln Trp Glu Ala Phe Ile Leu
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1199
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1199

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Met Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Glu Gln Trp Asp Ala Phe Ile Arg
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1200
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1200

Val Asp Ala Lys Tyr Ala Lys Glu His Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr Trp Asp Gln Ala Thr Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys

50 55

<210> 1201
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1201

Val Asp Ala Lys Tyr Ala Lys Glu Met Asn Arg Ala Gln Ile Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp His Gln Gln His Ala Phe Ile Gln
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1202
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1202

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Trp Trp Glu Ile
1 5 10 15

Trp Ala Leu Pro Asn Leu Thr His Ala Gln Gly Lys Ala Phe Ile Val
20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1203
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1203

Val Asp Ala Lys Tyr Ala Lys Glu Ala Gly Asp Ala Gln Leu Glu Ile
1 5 10 15

```
Trp Phe Leu Pro Asn Leu Thr Trp Ala Gln Ser Asn Ala Phe Ile Arg
            20                  25                  30


Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1204
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1204

Val Asp Ala Lys Tyr Ala Lys Glu Gly Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15


Ala Glu Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Leu
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1205
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1205

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15


Ala Ala Leu Pro Asn Leu Thr Tyr Asp Gln Trp Arg Ala Phe Ile Ala
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1206
<211>  58
<212>  PRT
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<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1206

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1207
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1207

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asn Ala Ala Leu Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Val Gln Trp Asn Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1208
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1208

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Phe Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Ala Arg Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1209
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1209

Val Asp Ala Lys Tyr Ala Lys Glu Thr Thr Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Trp Asp Gln Gln Ile Ala Phe Ile Gln
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1210
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1210

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Tyr Ala Trp Phe Glu Ile
1 5 10 15

Trp Ser Leu Pro Asn Leu Thr Tyr Thr Gln Gln Ser Ala Phe Ile Arg
20 25 30

Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1211
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1211

```
Val Asp Ala Lys Tyr Ala Lys Glu Tyr Asp Phe Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Arg Asp Gln Gln Ser Ala Phe Ile His
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1212
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1212

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Glu Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Leu Leu Pro Asn Leu Thr Arg Ser Gln Ala Ser Ala Phe Ile Thr
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55


<210>  1213
<211>  58
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1213

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Phe Ala Trp Phe Glu Ile
1               5                   10                  15


Trp Ala Leu Pro Asn Leu Thr His Asp Gln Ser Val Ala Phe Ile Arg
            20                  25                  30


Lys Leu Asn Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50                  55
```

<210> 1214
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1214

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asn Ala Gln Trp Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Ala Gln Gln His Ala Phe Ile Gly
20 25 30

Lys Leu Ile Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1215
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1215

Val Asp Ala Lys Tyr Ala Lys Glu Met Asp Asp Ala Trp Trp Glu Ile
1 5 10 15

Trp Asp Leu Pro Asn Leu Thr Tyr Tyr Gln Gln Arg Ala Phe Ile Val
20 25 30

Lys Leu Val Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1216
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1216

Val Asp Ala Lys Tyr Ala Lys Glu Trp Gly Glu Ala Gln Leu Glu Ile
1 5 10 15

Trp Leu Leu Pro Asn Leu Thr Trp Trp Gln Gly His Ala Phe Ile Gln

20 25 30

Lys Leu Leu Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1217
<211> 60
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1217

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Val Asp
50 55 60

<210> 1218
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1218

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1219
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1219

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1220
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1220

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
    50   55

<210> 1221
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1221

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1222
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1222

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1223
<211> 58
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered Taq polymerase binding polypeptide

<400> 1223

Val Asp Ala Lys Tyr Ala Lys Glu Leu Gly Trp Ala Thr Trp Glu Ile
1 5 10 15

Phe Asn Leu Pro Asn Leu Thr Gly Val Gln Val Lys Ala Phe Ile Asp
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
50 55

<210> 1224
<211> 46
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered albumin binding polypeptide

<400> 1224

Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly

1 5 10 15

Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu
20 25 30

Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro
35 40 45

<210> 1225
<211> 49
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered albumin binding polypeptide

<400> 1225

Gly Ser Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp
1 5 10 15

Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys
20 25 30

Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu
35 40 45

Pro

<210> 1226
<211> 137
<212> PRT
<213> HOMO SAPIENS

<400> 1226

Met Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn Pro Gly Cys Pro
1 5 10 15

Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val Met Val Asn Leu Asn
20 25 30

Ile His Asn Arg Asn Thr Asn Thr Asn Pro Lys Arg Ser Ser Asp Tyr
35 40 45

Tyr Asn Arg Ser Thr Ser Pro Trp Asn Leu His Arg Asn Glu Asp Pro
50 55 60

Glu Arg Tyr Pro Ser Val Ile Trp Glu Ala Lys Cys Arg His Leu Gly
65 70 75 80

Cys Ile Asn Ala Asp Gly Asn Val Asp Tyr His Met Asn Ser Val Pro
85 90 95

Ile Gln Gln Glu Ile Leu Val Leu Arg Arg Glu Pro Pro His Cys Pro
100 105 110

Asn Ser Phe Arg Leu Glu Lys Ile Leu Val Ser Val Gly Cys Thr Cys
115 120 125

Val Thr Pro Ile Val His His Val Ala
130 135

<210> 1227
<211> 133
<212> PRT
<213> MUS MUSCULUS

<400> 1227

Ala Ala Ile Ile Pro Gln Ser Ser Ala Cys Pro Asn Thr Glu Ala Lys
1 5 10 15

Asp Phe Leu Gln Asn Val Lys Val Asn Leu Lys Val Phe Asn Ser Leu
20 25 30

Gly Ala Lys Val Ser Ser Arg Arg Pro Ser Asp Tyr Leu Asn Arg Ser
35 40 45

Thr Ser Pro Trp Thr Leu His Arg Asn Glu Asp Pro Asp Arg Tyr Pro
50 55 60

Ser Val Ile Trp Glu Ala Gln Cys Arg His Gln Arg Cys Val Asn Ala
65 70 75 80

Glu Gly Lys Leu Asp His His Met Asn Ser Val Leu Ile Gln Gln Glu
85 90 95

Ile Leu Val Leu Lys Arg Glu Pro Glu Ser Cys Pro Phe Thr Phe Arg
100 105 110

Val Glu Lys Met Leu Val Gly Val Gly Cys Thr Cys Val Ala Ser Ile
115 120 125

Val Arg Gln Ala Ala
130

<210> 1228
<211> 134
<212> PRT
<213> HOMO SAPIENS

<400> 1228

Met Arg Lys Ile Pro Lys Val Gly His Thr Phe Phe Gln Lys Pro Glu
1 5 10 15

Ser Cys Pro Pro Val Pro Gly Gly Ser Met Lys Leu Asp Ile Gly Ile
20 25 30

```
Ile Asn Glu Asn Gln Arg Val Ser Met Ser Arg Asn Ile Glu Ser Arg
        35                  40                  45

Ser Thr Ser Pro Trp Asn Tyr Thr Val Thr Trp Asp Pro Asn Arg Tyr
    50                  55                  60

Pro Ser Glu Val Val Gln Ala Gln Cys Arg Asn Leu Gly Cys Ile Asn
65                  70                  75                  80

Ala Gln Gly Lys Glu Asp Ile Ser Met Asn Ser Val Pro Ile Gln Gln
                85                  90                  95

Glu Thr Leu Val Val Arg Arg Lys His Gln Gly Cys Ser Val Ser Phe
            100                 105                 110

Gln Leu Glu Lys Val Leu Val Thr Val Gly Cys Thr Cys Val Thr Pro
        115                 120                 125

Val Ile His His Val Gln
    130


<210>  1229
<211>  155
<212>  PRT
<213>  MACACA FASCICULARIS

<400>  1229

Met Thr Pro Gly Lys Thr Ser Leu Val Leu Leu Leu Leu Leu Leu Ser
1               5                   10                  15

Leu Glu Ala Ile Val Lys Ala Gly Ile Ala Ile Pro Arg Asn Ser Gly
            20                  25                  30

Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val Met Val Asn
        35                  40                  45

Leu Asn Ile His Asn Arg Asn Thr Ser Thr Asn Pro Lys Arg Ser Ser
    50                  55                  60

Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn Leu His Arg Asn Glu
65                  70                  75                  80

Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp Glu Ala Lys Cys Arg His
                85                  90                  95

Leu Gly Cys Val Lys Ala Asp Gly Asn Val Asp Tyr His Met Asn Ser
            100                 105                 110

Val Pro Ile Gln Gln Glu Ile Leu Val Leu Arg Arg Glu Pro Arg His
        115                 120                 125
```

```
Cys Pro Asn Ser Phe Arg Leu Glu Lys Ile Leu Val Ser Val Gly Cys
    130                 135                 140

Thr Cys Val Thr Pro Ile Val His His Val Ala
145                 150                 155
```

<210> 1230
<211> 132
<212> PRT
<213> MACACA MULATTA

<400> 1230

```
Gly Ile Ala Ile Pro Arg Asn Pro Gly Cys Pro Asn Ser Glu Asp Lys
1               5                   10                  15

Thr Phe Pro Arg Thr Val Met Val Asn Leu Asn Ile His Asn Arg Asn
            20                  25                  30

Thr Asn Thr Asn Pro Lys Arg Ser Ser Asp Tyr Tyr Asn Arg Ser Thr
        35                  40                  45

Ser Pro Trp Asn Leu His Arg Asn Glu Asp Pro Glu Arg Tyr Pro Ser
    50                  55                  60

Val Ile Trp Glu Ala Lys Cys Arg His Leu Gly Cys Val Asn Ala Asp
65                  70                  75                  80

Gly Asn Val Asp Tyr His Met Asn Ser Val Pro Ile Gln Gln Glu Ile
                85                  90                  95

Leu Val Leu Arg Arg Glu Pro Arg His Cys Pro Asn Ser Phe Arg Leu
            100                 105                 110

Glu Lys Ile Leu Val Ser Val Gly Cys Thr Cys Val Thr Pro Ile Val
        115                 120                 125

His His Val Ala
    130
```

<210> 1231
<211> 451
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered heavy chain of adalimumab

<400> 1231

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
            20                  25                  30
```

```
Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45

Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
    50                  55                  60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly
            100                 105                 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
        115                 120                 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
    130                 135                 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145                 150                 155                 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
                165                 170                 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
            180                 185                 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
        195                 200                 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
    210                 215                 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225                 230                 235                 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
                245                 250                 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
            260                 265                 270

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
        275                 280                 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
    290                 295                 300
```

```
Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305                 310                 315                 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
                325                 330                 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
            340                 345                 350

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
        355                 360                 365

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
    370                 375                 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385                 390                 395                 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
                405                 410                 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
            420                 425                 430

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
        435                 440                 445

Pro Gly Lys
    450


<210>  1232
<211>  214
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered light chain of adalimumab

<400>  1232

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1               5                   10                  15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Tyr
            20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45

Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
```

```
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala Pro Tyr
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
            100                 105                 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
        115                 120                 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
    130                 135                 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145                 150                 155                 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
            180                 185                 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
        195                 200                 205

Phe Asn Arg Gly Glu Cys
    210
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<210> 1233
<211> 211
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1233

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
65                  70                  75                  80
```

```
Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp
                85                  90                  95

Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys
            100                 105                 110

Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu
        115                 120                 125

Pro Gly Thr Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
    130                 135                 140

Gly Ser Gly Gly Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala Lys
145                 150                 155                 160

Glu Ala Asp Gln Ala Ala Met Glu Ile Ala Thr Leu Pro Asn Leu Thr
                165                 170                 175

Trp Asp Gln Trp Phe Ala Phe Ile Ala Lys Leu Arg Asp Asp Pro Ser
            180                 185                 190

Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln
        195                 200                 205

Ala Pro Lys
    210


<210>  1234
<211>  201
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1234

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Thr Ser Leu Ala
65                  70                  75                  80
```

```
Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
                85                  90                  95

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
            100                 105                 110

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Pro Arg Val
    130                 135                 140

Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile Ala
145                 150                 155                 160

Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala Lys
                165                 170                 175

Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys
            180                 185                 190

Lys Leu Asn Asp Ser Gln Ala Pro Lys
        195                 200


<210>  1235
<211>  191
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1235

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60

Gly Ser Gly Gly Gly Gly Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala
65                  70                  75                  80

Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg
                85                  90                  95

Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val Glu Ala Leu Lys Asp
            100                 105                 110
```

```
Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly Gly Gly Ser Gly Gly
        115                 120                 125

Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln
    130                 135                 140

Ala Ala Met Glu Ile Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp
145                 150                 155                 160

Phe Ala Phe Ile Ala Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu
                165                 170                 175

Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
            180                 185                 190
```

<210> 1236
<211> 211
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1236

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
65                  70                  75                  80

Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp
                85                  90                  95

Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys
            100                 105                 110

Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu
        115                 120                 125

Pro Gly Thr Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
    130                 135                 140
```

```
Gly Ser Gly Gly Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala Lys
145                 150                 155                 160

Glu Ala Asp Asp Ala Ala Val Glu Ile Ala Asp Leu Pro Asn Leu Thr
                165                 170                 175

Trp Asp Gln Trp Tyr Ala Phe Ile Ser Lys Leu Arg Asp Asp Pro Ser
            180                 185                 190

Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln
        195                 200                 205

Ala Pro Lys
    210
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<210> 1237
<211> 211
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1237

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
65                  70                  75                  80

Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp
                85                  90                  95

Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys
            100                 105                 110

Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu
        115                 120                 125

Pro Gly Thr Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
    130                 135                 140

Gly Ser Gly Gly Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala Lys
145                 150                 155                 160
```

```
Glu Ala Asp Asp Ala Ala Val Glu Ile Ala Ser Leu Pro Asn Leu Thr
                165                 170                 175

Trp Asp Gln Trp Tyr Ala Phe Ile Gln Lys Leu Arg Asp Asp Pro Ser
            180                 185                 190

Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln
        195                 200                 205

Ala Pro Lys
    210
```

<210> 1238
<211> 175
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1238

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Val Asp Gly Ser Leu Ala
    50                  55                  60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65                  70                  75                  80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
                85                  90                  95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
            100                 105                 110

Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln
        115                 120                 125

Ala Ala Met Glu Ile Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp
    130                 135                 140

Phe Ala Phe Ile Ala Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu
145                 150                 155                 160
```

Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
165 170 175

<210> 1239
<211> 180
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1239

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1 5 10 15

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Val Asp Gly Ser Leu Ala
50 55 60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65 70 75 80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
85 90 95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
100 105 110

Gly Gly Ser Gly Gly Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr Ala
115 120 125

Lys Glu Ala Asp Gln Ala Ala Met Glu Ile Ala Thr Leu Pro Asn Leu
130 135 140

Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala Lys Leu Arg Asp Asp Pro
145 150 155 160

Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser
165 170 175

Gln Ala Pro Lys
180

<210> 1240
<211> 181
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>

<223> Engineered IL-17A binding polypeptide

<400> 1240

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15


Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30


Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45


Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50                  55                  60


Gly Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu
65                  70                  75                  80


Asp Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala
                85                  90                  95


Lys Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala
            100                 105                 110


Leu Pro Gly Thr Gly Gly Gly Gly Ser Pro Arg Val Asp Ala Lys Tyr
        115                 120                 125


Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile Ala Thr Leu Pro Asn
    130                 135                 140


Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala Lys Leu Arg Asp Asp
145                 150                 155                 160


Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp
                165                 170                 175


Ser Gln Ala Pro Lys
            180
```

<210> 1241
<211> 186
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1241

```
Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
1               5                   10                  15


Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
            20                  25                  30
```

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Gly Ala Pro Gly Gly Gly
    50   55   60

Gly Ser Thr Ser Leu Ala Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu
65   70   75   80

Asp Ser Tyr Gly Val Ser Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala
                85   90   95

Lys Thr Val Glu Gly Val Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala
            100   105   110

Leu Pro Gly Thr Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Pro Arg
        115   120   125

Val Asp Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Met Glu Ile
    130   135   140

Ala Thr Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ala
145   150   155   160

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
                165   170   175

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
            180   185

<210> 1242
<211> 175
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1242

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1   5   10   15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
            20   25   30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35   40   45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Val Asp Gly Ser Leu Ala
    50   55   60

```
Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65                  70                  75                  80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
                85                  90                  95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
            100                 105                 110

Gly Gly Ser Pro Lys Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp
        115                 120                 125

Ala Ala Val Glu Ile Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp
    130                 135                 140

Tyr Ala Phe Ile Ser Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu
145                 150                 155                 160

Leu Leu Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
                165                 170                 175
```

<210> 1243
<211> 173
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1243

```
Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Ser
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Ala Ser Gly Ser Leu Ala
    50                  55                  60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65                  70                  75                  80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
                85                  90                  95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
            100                 105                 110

Gly Gly Ser Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala
        115                 120                 125
```

Val Glu Ile Ala Asp Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala
130 135 140

Phe Ile Ser Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu
145 150 155 160

Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
165 170

<210> 1244
<211> 173
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
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<400> 1244

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala Phe Ile Gln
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Ala Ser Gly Ser Leu Ala
50 55 60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65 70 75 80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
85 90 95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
100 105 110

Gly Gly Ser Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala
115 120 125

Val Glu Ile Ala Ser Leu Pro Asn Leu Thr Trp Asp Gln Trp Tyr Ala
130 135 140

Phe Ile Gln Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu
145 150 155 160

Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
165 170

<210> 1245
<211> 173
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1245

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1 5 10 15

Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala Phe Ile Ser
20 25 30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Ala Ser Gly Ser Leu Ala
50 55 60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65 70 75 80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
85 90 95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
100 105 110

Gly Gly Ser Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala
115 120 125

Val Glu Ile Ala Ala Leu Pro Asn Leu Thr Trp Asp Gln Trp Phe Ala
130 135 140

Phe Ile Ser Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu
145 150 155 160

Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
165 170

<210> 1246
<211> 173
<212> PRT
<213> ARTIFICIAL SEQUENCE

<220>
<223> Engineered IL-17A binding polypeptide

<400> 1246

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala Val Glu Ile
1 5 10 15

```
Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Ala Ser Gly Ser Leu Ala
    50                  55                  60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65                  70                  75                  80

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
                85                  90                  95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
            100                 105                 110

Gly Gly Ser Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Gln Ala Ala
        115                 120                 125

Val Glu Ile Ala Asp Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala
    130                 135                 140

Phe Ile Gln Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu
145                 150                 155                 160

Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
                165                 170


<210>  1247
<211>  173
<212>  PRT
<213>  ARTIFICIAL SEQUENCE

<220>
<223>  Engineered IL-17A binding polypeptide

<400>  1247

Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala Val Glu Ile
1               5                   10                  15

Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala Phe Ile Gln
            20                  25                  30

Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu Ser Glu Ala
        35                  40                  45

Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys Ala Ser Gly Ser Leu Ala
    50                  55                  60

Glu Ala Lys Glu Ala Ala Asn Ala Glu Leu Asp Ser Tyr Gly Val Ser
65                  70                  75                  80
```

Asp Phe Tyr Lys Arg Leu Ile Asp Lys Ala Lys Thr Val Glu Gly Val
85 90 95

Glu Ala Leu Lys Asp Ala Ile Leu Ala Ala Leu Pro Gly Thr Gly Gly
100 105 110

Gly Gly Ser Ala Glu Ala Lys Tyr Ala Lys Glu Ala Asp Asp Ala Ala
115 120 125

Val Glu Ile Ala Ser Leu Pro Asn Leu Thr Trp Ala Gln Trp Tyr Ala
130 135 140

Phe Ile Gln Lys Leu Arg Asp Asp Pro Ser Gln Ser Ser Glu Leu Leu
145 150 155 160

Ser Glu Ala Lys Lys Leu Asn Asp Ser Gln Ala Pro Lys
165 170

<210> 1248
<211> 147
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<220>
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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aaataaatct cgaggtagat gccaaatacg ccaaagaann nnnnnnngcg nnnnnngaga 60

tcnnnnnntt acctaactta accnnnnnnc aannnnnngc cttcatcnnn aaattannng 120

atgacccaag ccagagctca ttattta 147

<210> 1249
<211> 147
<212> DNA
<213> ARTIFICIAL SEQUENCE

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 1249
aaataaatct cgaggtagat gcmaaatacg ccaaagarnn nnnnnnngcg nnnnnngaga 60

tynnnnnnyt rccyaacytm accnnnnnnc arnnnnnngc cttcatcnnn aaattannng 120

atgacccaag ccagagctca ttattta 147

<210> 1250
<211> 58
<212> PRT
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<220>

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<223> Xaa can be any naturally occurring amino acid

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<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

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<222> (13)..(14)
<223> Xaa can be any naturally occurring amino acid

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<222> (17)..(18)
<223> Xaa can be any naturally occurring amino acid

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<222> (23)..(25)
<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<222> (32)..(33)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (35)..(36)
<223> Xaa can be any naturally occurring amino acid

<400> 1250

Ala Asp Asn Asn Phe Asn Lys Glu Xaa Asp Xaa Ala Xaa Xaa Glu Ile
1 5 10 15

Xaa Xaa Leu Pro Asn Leu Xaa Xaa Xaa Gln Xaa Xaa Ala Phe Ile Xaa
20 25 30

Xaa Leu Xaa Xaa Asp Pro Ser Gln Ser Ala Asn Leu Leu Ser Glu Ala
35 40 45

Lys Lys Leu Asn Glu Ser Gln Ala Pro Lys
50 55

<210> 1251
<211> 58
<212> PRT
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<223> Xaa can be any naturally occurring amino acid

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            20                  25                  30


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            20                  25                  30


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Phe Ile Xaa Xaa Leu Xaa Xaa Asp Pro Ser Gln Ser Thr Asn Val Leu
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            20   25   30

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