

Sequence Listing_PCT_EP2016_080553
SEQUENCE LISTING

<110> SANOFI

<120> selective glucagon receptor agonists comprising a chelating moiety for imaging purposes

<130> DE 2015-159 WOPCT

<160> 91

<170> PatentIn version 3.5

<210> 1

<211> 39

<212> PRT

<213> Heloderma suspectum

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Amidated C-terminus

<400> 1

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
			35			

<210> 2

<211> 29

<212> PRT

<213> Homo sapiens

<400> 2

His	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Tyr	Leu	Asp	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Asp	Phe	Val	Gln	Trp	Leu	Met	Asn	Thr
			20					25				

Sequence Listing_PCT_EP2016_080553

<210> 3
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2,5-dioxo-1-{2-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cy
 clododec-1-yl)-acetylamino]-ethyl}-pyrrolidin-3-yl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 3

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 4
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 4

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 5

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>

<221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (40)..(40)

<223> Amidated C-terminus

<400> 5

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 6

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 6

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 7
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2,5-dioxo-1-{2-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cy
clododec-1-yl)-acetylamino]-ethyl}-pyrrolidin-3-yl with complexed
Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 7

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 8
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

Sequence Listing_PCT_EP2016_080553

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 8

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
		20						25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
	35						40

<210> 9

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with

Sequence Listing_PCT_EP2016_080553

1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl with
complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 9

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5				10					15		

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
		20					25					30			

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
	35						40

<210> 10

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl
with complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 10

Sequence Listing_PCT_EP2016_080553

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 11
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Xaa is L-tert-Leucine (Tle)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Xaa is beta-Alanine (Bal)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

Sequence Listing_PCT_EP2016_080553

<400> 11

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Xaa Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 12

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (10)..(10)

<223> Xaa is L-tert-Leucine (Tle)

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is L-Norleucine (Nle)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> Xaa is beta-Alanine (Bal)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 12

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Xaa	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Xaa	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 13
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Xaa is Aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)

Sequence Listing_PCT_EP2016_080553

<223> Amidated C-terminus

<400> 13

Xaa	Ser	Gln	Gly	Thr	Phe	Xaa	Ser	Asp	Leu	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Asp	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 14

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Xaa is Aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is L-Norleucine (Nle)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

Sequence Listing_PCT_EP2016_080553

<400> 14

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 15

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Xaa is Aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is L-Norleucine (Nle)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2,5-dioxo-1-{2-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cy-
clododec-1-yl)-acetylamino]-ethyl}-pyrrolidin-3-yl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 15

Sequence Listing_PCT_EP2016_080553

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 16
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 16

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 17
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 17

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 18
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2,5-dioxo-1-{2-[2-(4,7,10-tris-carboxymethyl-1,4,7,10-tetraaza-cy
clododec-1-yl)-acetylamino]-ethyl}-pyrrolidin-3-yl with complexed
Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 18

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu

Sequence Listing_PCT_EP2016_080553

20

25

30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 19
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl with
complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 19

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 20
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl
with complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 20

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 21
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is D-Serine (s)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 21

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 22
<211> 40

Sequence Listing_PCT_EP2016_080553

<212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 22

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Ser
1				5					10					15	

Arg	Ala	Ala	Gln	Asp	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 23
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 23

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Ser
1				5					10					15	

Arg	Ala	Ala	Gln	Asp	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 24
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 24

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
 1 5 10 15

Gln Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 25
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with

Sequence Listing_PCT_EP2016_080553

2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 25

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Gln	Arg	Ala	Gln	Asp	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Ser
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 26

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Lys derivatized with
(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-acet
yl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 26

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Arg	Gln	Leu	Glu	Ser
1				5					10					15	

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 27
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Lys derivatized with
(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ace
tyl with complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 27

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 28
<211> 40

Sequence Listing_PCT_EP2016_080553

<212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 (4,7-Bis-carboxymethyl-[1,4,7]triazonan -1-yl)-acetyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 28

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
 1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 29
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 3-{2-[2-(2-{2-[3-(1-{2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan-1-yl)-acetylamino]-ethyl}-2,5-dioxo-pyrrolidin-3-ylsulfanyl)-propionylamino]-ethoxy}-ethoxy)-ethoxy]-ethoxy}-propionyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 29

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Arg	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 30
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with 3-{2-[2-(2-{2-[3-(1-{2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan-1-yl)-acetylamino]-ethyl}-2,5-dioxo-pyrrolidin-3-ylsulfanyl)-propionylamino]-ethoxy}-ethoxy)-ethoxy]-ethoxy}-propionyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

Sequence Listing_PCT_EP2016_080553

<400> 30

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 31

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Xaa is Aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is L-Norleucine (Nle)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 31

Sequence Listing_PCT_EP2016_080553

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ala Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 32
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 32

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ala Lys Gln Xaa Glu Ser

Sequence Listing_PCT_EP2016_080553

1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 33
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 33

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 34

Sequence Listing_PCT_EP2016_080553

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 34

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 35
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 35

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Ile	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 36
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 36

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Ile	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 37
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (12)..(12)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Amidated C-terminus

<400> 37

Sequence Listing_PCT_EP2016_080553

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Xaa Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 38
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (13)..(13)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Amidated C-terminus

<400> 38

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Xaa Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

Sequence Listing_PCT_EP2016_080553

<210> 39
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Amidated C-terminus

<400> 39

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
			35			

<210> 40
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES

Sequence Listing_PCT_EP2016_080553

```

<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Cys derivatized with
        2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
        )-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Amidated C-terminus

<400> 40

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Xaa
1          5          10          15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
        20          25          30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 41
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Xaa is Cys derivatized with
        2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
        )-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES

```

Sequence Listing_PCT_EP2016_080553

<222> (39)..(39)

<223> Amidated C-terminus

<400> 41

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Xaa	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser
						35

<210> 42

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Amidated C-terminus

<400> 42

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Xaa	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser
35

<210> 43
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Lys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 43

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 44
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 44

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
 1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 45
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 (4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ace

Sequence Listing_PCT_EP2016_080553

tyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 45

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Arg	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 46

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Lys derivatized with
(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ace
tyl with complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 46

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Arg	Gln	Leu	Glu	Ser
1				5					10					15	

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 47
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 47

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Thr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 48
<211> 40
<212> PRT

Sequence Listing_PCT_EP2016_080553

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 48

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Thr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 49

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 49

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5				10					15		

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20				25					30			

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 50
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 50

Sequence Listing_PCT_EP2016_080553

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1 5 10 15

Gln Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 51
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 51

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser

Sequence Listing_PCT_EP2016_080553

1	5	10	15
Arg	Arg	Ala	Lys
	20	Asp	Phe
		Ile	Glu
		25	Trp
			Leu
			Leu
			Ala
			Thr
			30
			Gly
			Pro
			Glu

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
	35					40	

<210> 52
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Xaa is Aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 52

Xaa	Ser	Gln	Gly	Thr	Phe	Xaa	Ser	Asp	Leu	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Lys Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 53
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Lys derivatized with
(4,7-Bis-carboxymethyl-[1,4,7]triazonan -1-yl)-acetyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 53

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Arg Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 54
<211> 40
<212> PRT
<213> Artificial Sequence

Sequence Listing_PCT_EP2016_080553

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Xaa is Aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 54

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Xaa
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 55

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is Aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 55

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Xaa
 1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 56
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is Aminoisobutyric acid (Aib)

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 56

Xaa	Ser	His	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Xaa
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 57
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is Aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 57

Xaa	Ser	His	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Xaa
1				5					10					15	

Lys	Lys	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 58
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Xaa is Aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 58

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Xaa
 1 5 10 15

Lys Lys Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 59
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 59

Xaa Ser His Gly Thr Phe Thr Ser Asp Ile Ser Lys Gln Leu Asp Glu
 1 5 10 15

Gln Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 60

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Xaa is D-Serine (s)

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Glu in position 16 forms a lactam bridge with Lys in position 20

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Lys in position 20 forms a lactam bridge with Glu in position 16

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 60

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1 5 10 15

Sequence Listing_PCT_EP2016_080553

Gln Arg Ala Lys Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 61
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Glu in position 16 forms a lactam bridge with Lys in position 20

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Lys in position 20 forms a lactam bridge with Glu in position 16

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 61

Sequence Listing_PCT_EP2016_080553

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1 5 10 15

Gln Arg Ala Lys Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 62
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 62

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

Sequence Listing_PCT_EP2016_080553

<210> 63
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
 -1-yl)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 63

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 64
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)

Sequence Listing_PCT_EP2016_080553

```

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is Aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
        2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
        -1-yl)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 64

Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
1          5          10          15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
        20          25          30

Ser Gly Ala Pro Pro Pro Ser Xaa
        35          40

<210> 65
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

```

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Xaa is Aminoisobutyric acid (Aib)

 <220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

 <220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
 -1-yl)-ethanesulfonyl]-ethyl with complexed Gallium

 <220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

 <400> 65

 Xaa Ser Gln Gly Thr Phe Xaa Ser Asp Leu Ser Lys Gln Xaa Glu Ser
 1 5 10 15

 Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

 Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

 <210> 66
 <211> 40
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> artificial polypeptide

 <220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

 <220>
 <221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 66

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
 1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 67
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 (4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-acet
 tyl

<220>
 <221> MOD_RES

Sequence Listing_PCT_EP2016_080553

<222> (40)..(40)

<223> Amidated C-terminus

<400> 67

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 68

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 68

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Sequence Listing_PCT_EP2016_080553

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 69
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Xaa is L-Norleucine (Nle)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 69

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Ile Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 70
<211> 40

Sequence Listing_PCT_EP2016_080553

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> artificial polypeptide

 <220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

 <220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

 <220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
 -1-yl)-ethanesulfonyl]-ethyl with complexed Gallium

 <220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

 <400> 70

 Xaa Ser Gln Gly Thr Phe Thr Ser Asp Ile Ser Lys Gln Xaa Glu Ser
 1 5 10 15

 Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

 Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

 <210> 71
 <211> 40
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> artificial polypeptide

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is L-Norleucine (Nle)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
 -1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 71

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Ile	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
		20					25						30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
	35						40

<210> 72
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES

Sequence Listing PCT EP2016 080553

$\langle 222 \rangle$ (14).. (14)

<223> Xaa is L-Norleucine (Nle)

 $\langle 220 \rangle$

<221> MOD RES

$$\langle 222 \rangle \quad (40) \dots (40)$$

<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

 $\langle 220 \rangle$

<221> MOD RES

$$\langle 222 \rangle \quad (40) \dots (40)$$

<223> Amidated C-terminus

<400> 72

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Ile Ser Lys Gln Xaa Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 73

<211> 40

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> artificial polypeptide

 $\langle 220 \rangle$

<221> MOD RES

$$\langle 222 \rangle \quad (1) \bar{.} (1)$$

<223> Xaa is L-4-Thiazolylalanine (Tza)

 $\langle 220 \rangle$

<221> MOD RES

$$\langle 222 \rangle \quad (14) \dots (14)$$

<223> Xaa is L-Norleucine (Nle)

 $\langle 220 \rangle$

<221> MOD RES

$$\langle 222 \rangle \quad (40) \dots (40)$$

<223> Xaa is Cys derivatized with

Sequence Listing_PCT_EP2016_080553

2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 73

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Xaa	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 74

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (10)..(10)

<223> Xaa is L-2-Fluorphenylalanine (2F-Phe)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

Sequence Listing_PCT_EP2016_080553

<400> 74

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 75

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 75

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1 5 10 15

Gln Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa

Sequence Listing_PCT_EP2016_080553

35

40

<210> 76
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 76

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 77
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

Sequence Listing_PCT_EP2016_080553

```

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
      1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
      -1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 77

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1          5          10          15

Gln Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
      20          25          30

Ser Gly Ala Pro Pro Pro Ser Xaa
      35          40

<210> 78
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
      -carboxymethyl-[1,4,7]triazonan
      -1-yl)-4-carboxy-butyrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

```

Sequence Listing_PCT_EP2016_080553

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 78

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Asp Glu
1 5 10 15

Gln Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 79

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<400> 79

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

Sequence Listing_PCT_EP2016_080553

<210> 80
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<400> 80

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Glu	Ser
1				5					10					15	

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Gly	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 81
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Lys derivatized with
 (4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)-ace
 tyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 81

Xaa	Ser	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Arg	Gln	Leu	Glu	Ser
1				5				10					15		

Arg	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20				25					30			

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 82
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl)
)-ethanesulfonyl]-ethyl

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 82

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
 1 5 10 15

Ala Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Ser
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 83
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 83

Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser

Sequence Listing_PCT_EP2016_080553

1 5 10 15

Ala Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 84
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Amidated C-terminus

<400> 84

Xaa Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
1 5 10 15

Ala Arg Ala Gln Asp Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 85

Sequence Listing_PCT_EP2016_080553

<211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 85

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 86
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

Sequence Listing_PCT_EP2016_080553

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl with complexed Gallium

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 86

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 87
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

Sequence Listing_PCT_EP2016_080553

<221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 1-{2-[2-(4,7-bis-carboxymethyl-[1,4,7]triazonan
 -1-yl)-acetylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 87

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 88
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Xaa is L-4-Thiazolylalanine (Tza)

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa is D-Serine (s)

<220>
 <221> MOD_RES
 <222> (40)..(40)

Sequence Listing_PCT_EP2016_080553

<223> Xaa is Cys derivatized with 1-{2-[(S)-4-(4,7-bis
-carboxymethyl-[1,4,7]triazonan
-1-yl)-4-carboxy-butrylamino]ethyl}-2,5-dioxo-pyrrolidin-3-yl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 88

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
		35					40

<210> 89

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Xaa is D-Serine (s)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7-Bis-carboxymethyl-[1,4,7]triazonan
-1-yl)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

Sequence Listing_PCT_EP2016_080553

<223> Amidated C-terminus

<400> 89

Xaa	Xaa	Gln	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Glu
1				5					10					15	

Gln	Arg	Ala	Gln	Glu	Phe	Ile	Glu	Trp	Leu	Leu	Ala	Thr	Gly	Pro	Glu
			20					25					30		

Ser	Gly	Ala	Pro	Pro	Pro	Ser	Xaa
			35				40

<210> 90

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> artificial polypeptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Xaa is L-4-Thiazolylalanine (Tza)

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Xaa is Aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Xaa is Cys derivatized with
2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>

<221> MOD_RES

<222> (40)..(40)

<223> Amidated C-terminus

<400> 90

Xaa	Ser	His	Gly	Thr	Phe	Thr	Ser	Asp	Tyr	Ser	Lys	Gln	Leu	Asp	Xaa
1				5					10					15	

Sequence Listing_PCT_EP2016_080553

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Thr Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40

<210> 91
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial polypeptide

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Xaa is Cys derivatized with
 2-[2-(4,7,10-Tris-carboxymethyl-1,4,7,10-tetraaza-cyclododec-1-yl
)-ethanesulfonyl]-ethyl

<220>
 <221> MOD_RES
 <222> (40)..(40)
 <223> Amidated C-terminus

<400> 91

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Gln Leu Glu Ser
 1 5 10 15

Arg Arg Ala Gln Glu Phe Ile Glu Trp Leu Leu Ala Gly Gly Pro Glu
 20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
 35 40