

Sequence Listing

<110> THE UNITED BIO-TECHNOLOGY (HENGQIN) CO.,LTD.

<120> MULTI AGONISTS AND APPLICATION THEREOF

<130> LAPCT210314SG

<160> 45

<170> SIPOSequenceListing 1.0

<210> 1

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Xaa at position 2 is α -aminoisobutyric acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa at position 6 is α -methylphenylalanine

<220>

<221> MOD_RES

<222> (13)..(13)

<223> Xaa at position13 is α -Methyllleucine

<220>

<221> MOD_RES

<222> (17)..(17)

<223> amino group of Lys side chain at position 7 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Xaa at position 20 is Aminoisobutyric acid

<220>

<221> MOD_RES

<222> (38)..(38)

<223> Xaa at position 38 is Ac3c

<220>

<221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is amidated optionally

<400> 1
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 2
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 <212> PRT
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<220>
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<220>
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 <222> (6)..(6)
 <223> Xaa at position 6 is α -Methylphenylalanine

<220>
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 <222> (13)..(13)
 <223> Xaa at position 13 is α -Methyllleucine

<220>
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 <222> (17)..(17)
 <223> Amino groups of Lys side chain at position 17 is chemically modified by fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
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 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 2
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 3
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 <223> Xaa at position 2 is α -Aminoisobutyric acid

<220>
 <221> MOD_RES
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 <223> Xaa at position 6 is α -Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α -Methyllleucine

<220>
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 <222> (17)..(17)
 <223> amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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<220>
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 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 3
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 4
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 <222> (2)..(2)
 <223> Xaa at position 2 is α -Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α -Methyl-2-fluorophenylalanine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain groups AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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 <223> Xaa at position 20 is α -Aminoisobutyric acid

<220>
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 <222> (38)..(38)
 <223> Xaa at position 38 is Ac₃c

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 4
Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
1 5 10 15
Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Xaa Ser
35

<210> 5
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<223> Xaa at position 2 is α -Aminoisobutyric acid

<220>
<221> MOD_RES
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<223> Xaa at position 6 is α -Methyl-2-fluorophenylalanine

<220>
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<222> (17)..(17)
<223> amino group of Lys side chain at position 17 is chemically modified by
Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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<223> Xaa at position 20 is α -Aminoisobutyric acid

<220>
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<222> (38)..(38)
<223> Xaa at position 38 is Ac3c

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is optionally amidated

<400> 5
Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 6
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 <223> Xaa at position 2 is α -Aminoisobutyric acid

<220>
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 <223> Xaa at position 6 is α -Methyl-2-fluorophenylalanine

<220>
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 <222> (13)..(13)
 <223> Xaa at position 13 is α -Methyllleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <222> (20)..(20)
 <223> Xaa at position 20 is α -Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa at position 29 is α -Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 6
 Tyr Xaa His Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys

1		5		10		15
Lys	Ala	Gln	Xaa	Ala	Phe	Ile
		20				
Ser	Gly	Gln	Pro	Pro	Pro	Ser
		35				

<210> 7
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 <223> Xaa at position 2 is α -Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α -Methyllleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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 <223> Xaa at position 20 is α -Aminoisobutyric acid

<220>
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 <222> (35)..(35)
 <223> Xaa at position 35 is α -Aminoisobutyric acid

<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 7

Tyr	Xaa	Gln	Gly	Thr	Xaa	Thr	Ser	Asp	Tyr	Ser	Ile	Xaa	Leu	Asp	Lys
1				5					10					15	
Lys	Ala	Gln	Xaa	Ala	Phe	Ile	Glu	Tyr	Leu	Leu	Glu	Thr	Gly	Pro	Ser
		20					25						30		
Ser	Gly	Xaa	Pro	Pro	Pro	Ser									
		35													

<210> 8
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<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

Tyr	Xaa	Gln	Gly	Thr	Xaa	Thr	Ser	Asp	Tyr	Ser	Ile	Xaa	Leu	Asp	Lys
1				5					10					15	
Lys	Ala	Gln	Xaa	Ala	Phe	Ile	Glu	Tyr	Leu	Leu	Glu	Thr	Gly	Pro	Ser
		20					25						30		
Ser	Gly	Gln	Pro	Pro	Pro	Ser									

35

<210> 9
<211> 39
<212> PRT
<213> Artificial Sequence

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<223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Amino group of Lys side chain at position 17 is chemically modified by
Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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<223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
<221> MOD_RES
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<223> Xaa at position 38 is Ac3c

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is optionally amidated

<400> 9
Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
1 5 10 15
Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Xaa Ser
35

<210> 10
<211> 39
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<213> Artificial Sequence

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<223> Xaa at position 2 is α - Aminoisobutyric acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>

<221> MOD_RES

<222> (17)..(17)

<223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Xaa at position 20 is α - Aminoisobutyric acid

<220>

<221> MOD_RES

<222> (38)..(38)

<223> Xaa at position 38 is Ac3c

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Ser at position 39 is optionally amidated

<400> 10

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

1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser

20 25 30

Ser Gly Ala Pro Pro Xaa Ser

35

<210> 11

<211> 39

<212> PRT

<213> Artificial Sequence

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<221> MOD_RES

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<223> Xaa at position 2 is α - Aminoisobutyric acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>

<221> MOD_RES

<222> (17)..(17)

<223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Xaa at position 20 is α - Aminoisobutyric acid

<220>

<221> MOD_RES

<222> (38)..(38)

<223> Xaa at position 28 is Ac3c

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<221> MOD_RES

<222> (39)..(39)

<223> Ser at position 39 is optionally amidated

<400> 11

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

1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Xaa Ser

35

<210> 12

<211> 39

<212> PRT

<213> Artificial Sequence

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<220>

<221> MOD_RES

<222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
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 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 12
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 13
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 <213> Artificial Sequence

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<220>
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 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
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 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 13
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 14
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<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
 <221> MOD_RES
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 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 14
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 15
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 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 15
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser

Ser Gly Ala Pro Pro Pro Ser
 20 25 30
 35

<210> 16
 <211> 39
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<220>
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 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
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 <223> Xaa at position 29 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 16
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Xaa His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 17
 <211> 39

<222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa at position 29 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 18
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Xaa His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 19
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<220>
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 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

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<221> MOD_RES
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 <223> Xaa at position 13 is α - Methylleucine

<220>
 <221> MOD_RES
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 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 19
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 20
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 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
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 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methylleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa at position 29 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 20
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Xaa His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 21
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<220>
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 <223> Xaa at position 2 is α - Aminoisobutyric acid

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 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
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 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 21
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Gly Gly Pro Ser
 20 25 30
 Ser Gly Gln Pro Pro Pro Ser
 35

<210> 22
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<220>
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 <223> Xaa at position 2 is α - Aminoisobutyric acid

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 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
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 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
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 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

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<222> (39)..(39)
<223> Ser at position 39 is optionally amidated

<400> 23
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1 5 10 15
Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr Gly Pro Ser
20 25 30
Ser Gly Gln Pro Pro Pro Ser
35

<210> 24
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<220>
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<223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
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<223> Xaa at position 13 is α - Methyllleucine

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 <223> Ser at position 39 is optionally amidated

<400> 24
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

<210> 25
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<220>
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 <223> Xaa at position 34 is α - Aminoisobutyric acid

<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 25
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 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Gly Arg Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

<210> 26
 <211> 39
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<220>
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 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

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<220>
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 <223> Ser at position 39 is optionally amidated

<400> 26
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 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 27
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<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 27
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 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Ser His Pro Ser

	20	25	30
Ser Gly	Ala Pro Pro Pro Ser		
	35		

<210> 28
 <211> 39
 <212> PRT
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<220>
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 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
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<220>
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 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
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 <222> (30)..(30)
 <223> Xaa at position 30 is α - Aminoisobutyric acid

<220>
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 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
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 <222> (39)..(39)

<223> Ser at position 39 is optionally amidated

<400> 28

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Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1          5          10          15
Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser Xaa Pro Ser
          20          25          30
Ser Gly Ala Pro Pro Xaa Ser
          35
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<210> 29

<211> 39

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<221> MOD_RES

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<223> Xaa at position 6 is α - Methylphenylalanine

<220>

<221> MOD_RES

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<223> Xaa at position 30 is α - Aminoisobutyric acid

<220>

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<222> (38)..(38)

<223> Xaa at position 38 is Ac3c

<220>

<221> MOD_RES

<222> (39)..(39)
<223> Ser at position 39 is optionally amidated

<400> 29
Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
1 5 10 15
Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Ser Xaa Pro Ser
20 25 30
Ser Gly Ala Pro Pro Xaa Ser
35

<210> 30
<211> 39
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<220>
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<220>
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<220>

<221> MOD_RES
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 <223> Xaa at position 38 is Ac3c

<220>
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 <223> Ser at position 39 is optionally amidated

<400> 30
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Xaa Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 31
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<220>
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 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
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<220>
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 <223> Xaa at position 38 is Ac3c

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<400> 31
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Xaa His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

<210> 32
 <211> 39
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<220>
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<220>
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 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 32
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Phe Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Xaa His Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Xaa Ser
 35

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

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<220>
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 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
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 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methylleucine

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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 33
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Xaa Ser
 35

<210> 34
 <211> 39
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<220>
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 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

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 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
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<220>
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 <223> Xaa at position 38 is Ac3c

<220>
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 <223> Ser at position 39 is optionally amidated

<400> 34
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Gly Gln Pro Pro Xaa Ser
 35

<210> 35
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<220>
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<223> Xaa at position 38 is Ac3c

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Ser at position 39 is optionally amidated

<400> 35

Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys

1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Thr Gly Pro Ser

20 25 30

Ser Gly Gln Pro Pro Xaa Ser

35

<210> 36

<211> 39

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<221> MOD_RES

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<220>
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<220>
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<400> 36
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Gly Gly Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

<210> 37
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<220>
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<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 37
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Gly Arg Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

<210> 38
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<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
 <221> MOD_RES
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 <223> Xaa at position 13 is α - Methylleucine

<220>
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<220>
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 <223> Xaa at position 34 is α - Aminoisobutyric acid

<220>
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 <223> Ser at position 39 is optionally amidated

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 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Gly Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

<210> 39
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<220>
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 <222> (13)..(13)
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<220>
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<400> 39
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
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 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Thr Arg Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Pro Ser
 35

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 <222> (13)..(13)
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<220>
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<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 40
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Xaa Ser
 35

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

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<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>

<221> MOD_RES

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<220>

<221> MOD_RES

<222> (38)..(38)

<223> Xaa at position 38 is Ac3c

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Ser at position 39 is optionally amidated

<400> 41

Tyr	Xaa	Gln	Gly	Thr	Xaa	Thr	Ser	Asp	Tyr	Ser	Ile	Leu	Leu	Asp	Lys
1				5					10					15	
Lys	Ala	Gln	Xaa	Ala	Phe	Ile	Glu	Phe	Leu	Leu	Glu	Ser	His	Pro	Ser
		20						25					30		
Ser	Xaa	His	Pro	Pro	Xaa	Ser									
		35													

<210> 42

<211> 39

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<221> MOD_RES

<222> (2)..(2)
 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methylphenylalanine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (34)..(34)
 <223> Xaa at position 34 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 42
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Leu Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Phe Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Xaa Ser
 35

<210> 43
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>

<221> MOD_RES
 <222> (2)..(2)
 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Xaa at position 6 is α - Methyl-2-fluorophenylalanine

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (34)..(34)
 <223> Xaa at position 34 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (38)..(38)
 <223> Xaa at position 38 is Ac3c

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 43
 Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Ser His Pro Ser
 20 25 30
 Ser Xaa His Pro Pro Xaa Ser
 35

<210> 44
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methyllleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 44
 Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 45
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Xaa at position 2 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (13)..(13)
 <223> Xaa at position 13 is α - Methylleucine

<220>
 <221> MOD_RES
 <222> (17)..(17)
 <223> Amino group of Lys side chain at position 17 is chemically modified by
 Fatty acid side chain group AEEAc-AEEAc- γ Glu-CO(CH₂)₁₈COOH

<220>
 <221> MOD_RES
 <222> (20)..(20)
 <223> Xaa at position 20 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (29)..(29)
 <223> Xaa at position 29 is α - Aminoisobutyric acid

<220>
 <221> MOD_RES
 <222> (39)..(39)
 <223> Ser at position 39 is optionally amidated

<400> 45
 Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
 1 5 10 15
 Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Xaa Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35