

SEQUENCE LISTING

<110> SANOFI

<120> MODIFIED LIPIDATED RELAXIN B CHAIN PEPTIDES AND THEIR THERAPEUTIC USE

<130> PR82713/KLP/MGG/gg

<150> EP18305094

<151> 2018-01-31

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<170> BiSSAP 1.3.6

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<223> Peptide analogue of the B-chain of Relaxin-2

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<223> Peptide analogue of the B-chain of Relaxin-2

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<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

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<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

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<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

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<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

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<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

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 (Nε-Acetyl-lysine - K(Ac))

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 <223> The peptide is substituted with an -NH₂ group on its C-terminal
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 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 Ser Thr Phe Ser Xaa Arg Ala Xaa
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(Nε-Acetyl-lysine - K(Ac))

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Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa

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Ser Thr Phe Ser Xaa Arg Ala Xaa
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 acid)3-Palmitoyl group (-(PEG2)4-(gE)3-Palm)

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 extremity

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 (Nε-Acetyl-lysine - K(Ac))

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Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
			20												

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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

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Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
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Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
			20												

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 (N ϵ -Acetyl-lysine - K(Ac))

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 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
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Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

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 Ser Thr Phe Ser Xaa Arg Ala Xaa
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 Ser Thr Phe Ser Xaa Arg Ala Xaa
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1	5	10	15
Ser Thr Trp Ser Xaa Arg Ala Xaa			
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<220>
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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

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 Ser Thr Phe Ser Xaa Arg Ala Xaa
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(Nε-Acetyl-lysine - K(Ac))

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extremity

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Ser Thr Phe Ser Lys Arg Ala Xaa
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acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

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<220>

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1				5					10					15	
Ser	Thr	Phe	Xaa	Lys	Arg	Ala	Xaa								
			20												

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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 16
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 17
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<220>
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<213> Artificial Sequence

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<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)2-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)2-(gE)3-Palm)

<220>

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<222> 21

<223> Xaa in position 21 represents D-lysine (Dlys)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

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<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 18
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 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

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 (Nε-Acetyl-lysine - K(Ac))

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 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

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<220>
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 nitrogen atom of its lateral chain to a -(PEG2)3-(gamma glutamic
 acid)3-Palmitoyl group (-(PEG2)3-(gE)3-Palm)

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 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
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<220>

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<400> 19

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
			20												

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<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

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<220>

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<220>

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<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

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<222> 16

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<220>
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 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 24
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 extremity

<400> 20
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
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 (Nε-Acetyl-lysine - K(Ac))

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 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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<400> 21
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 22
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(Nε-Acetyl-lysine - K(Ac))

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<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG2DGA)3-(gamma glutamic acid)3-Palmitoyl group (-(PEG2DGA)3-(gE)3-Palm)

<220>

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<223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 22

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa

1

5

10

15

Ser Thr Phe Ser Xaa Arg Ala Xaa

20

<210> 23

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 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

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 <400> 23
 Leu Glu Gly Arg Glu Leu Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
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 (Nε-Acetyl-lysine - K(Ac))

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 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
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<220>
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 acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

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<220>
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 (Nε-Acetyl-lysine - K(Ac))

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<400> 24

Leu	Glu	Gly	Arg	Glu	Phe	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

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<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

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 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 25

Leu	Glu	Gly	Arg	Glu	Gln	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 26

<211> 24

<212> PRT

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<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

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<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG₂)₄-(gamma glutamic acid)₃-Stearoyl group (-(PEG₂)₄-(gE)₃-Stea)

<220>
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 <223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (N ϵ -Acetyl-lysine - K(Ac))

<220>
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 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<400> 26
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
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<220>
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 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (N ϵ -Acetyl-lysine - K(Ac))

<220>
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 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 27

Leu	Glu	Gly	Arg	Glu	Arg	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 28

<211> 24

<212> PRT

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<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 6

<223> Xaa in position 6 represents homolysine (Hly)

<220>
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
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 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
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 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<400> 28
 Leu Glu Gly Arg Glu Xaa Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

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 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
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<220>
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<220>
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<220>
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 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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<220>
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 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 24
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<400> 29

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Xaa	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
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Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

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<220>
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 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
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 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Stearoyl group (-(TTDS)3-(gE)3-Stea)

<220>
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<220>
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 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

<220>

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<400> 30

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Ala	Xaa								
			20												

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<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

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<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

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<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic acid)₃-Palmitoyl group (-(TTDS)₃-(gE)₃-Palm)

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 (Nε-Acetyl-lysine - K(Ac))

<220>
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<400> 31
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 Ser Thr Trp Ser Xaa Arg Arg Xaa
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG2DGA)3-(gamma glutamic acid)3-Stearoyl group (-(PEG2DGA)3-(gE)3-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 32

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 33

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)2-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)2-(gE)3-Palm)

<220>
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 <222> 21
 <223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 33
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 34
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT

<222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)2-(gamma glutamic acid)3-Stearoyl group (-(TTDS)2-(gE)3-Stea)

<220>
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 <222> 21
 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
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 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 34
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 35
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa in position 20 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 35
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa

1	5	10	15
Ser	Thr	Trp	Xaa
	Lys	Arg	Ala
			Xaa
	20		

<210> 36
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents D-lysine (Dlys)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<400> 36
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 37
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic
 acid)₃-Palmitoyl group (-(TTDS)₃-(gE)₃-Palm)

<220>

<221> VARIANT
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 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<400> 37
 Leu Glu Gly Arg Glu Leu Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Arg Xaa
 20

<210> 38
 <211> 24
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <222> 1
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 N-terminal extremity

<220>
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 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG2)3-(gamma glutamic acid)3-Palmitoyl group (-(PEG2)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 38
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 39
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 <212> PRT
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<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 39
 Leu Glu Gly Arg Glu Phe Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Arg Xaa
 20

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

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 40
 Leu Glu Gly Arg Glu Gln Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Arg Xaa
 20

<210> 41
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG2DGA)3-(gamma glutamic acid)3-Palmitoyl group (-(PEG2DGA)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 41
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15

Ser Thr Trp Ser Xaa Arg Ala Xaa
20

<210> 42
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(N ϵ -Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(PEG2)4-(gamma glutamic
acid)3-Palmitoyl group (-(PEG2)4-(gE)3-Palm)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(N ϵ -Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 42
Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Trp Ser Xaa Arg Ala Xaa
 20

<210> 43
<211> 24
<212> PRT
<213> Artificial Sequence

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<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
<221> VARIANT
<222> 6
<223> Xaa in position 6 represents homolysine (Hly)

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the

nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Stearoyl group (-(TTDS)3-(gE)3-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 43

Leu	Glu	Gly	Arg	Glu	Xaa	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Ala	Xaa								
				20											

<210> 44

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa in position 20 represents D-serine (Dser)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 44
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Xaa Lys Arg Ala Xaa
 20

<210> 45
 <211> 24
 <212> PRT
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<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
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<222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(PEG2)5-(gamma glutamic
 acid)3-Palmitoyl group (-(PEG2)5-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<400> 45
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 46
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
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 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(PEG2)5-(gamma glutamic acid)4-Palmitoyl group (-(PEG2)5-(gE)4-Palm)

<220>
 <221> VARIANT
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 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
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 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 46
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 47
 <211> 24

<212> PRT
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<220>
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<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
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<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(N ϵ -Acetyl-lysine - K(Ac))

<400> 47
Leu Glu Gly Arg Glu Lys Val Arg Ala Lys Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Phe Ser Xaa Arg Ala Xaa
20

<210> 48
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
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<222> 21
<223> Xaa in position 21 represents α -Methyl-lysine (Mly)

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(N ϵ -Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<400> 48
Leu Glu Gly Arg Glu Lys Val Arg Ala Gln Ile Xaa Xaa Glu Gly Xaa

1	5	10	15
Ser	Thr	Phe	Ser
	Xaa	Arg	Ala
		Xaa	
	20		

<210> 49
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl group (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-Methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 49
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Lys
 20

<210> 50
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
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 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(PEG2DGA)3-(gamma
 glutamic acid)3-Stearoyl group (-(PEG2DGA)3-(gE)3-Stea)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT

<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<400> 50
Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 51
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>
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<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic

acid)4-Stearoyl group (-(TTDS)3-(gE)4-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<400> 51

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
				20											

<210> 52

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)2-Stearoyl group (-(TTDS)3-(gE)2-Stea)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 52
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 53
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(PEG2DGA)3-(gamma
glutamic acid)4-Stearoyl group (-(PEG2DGA)3-(gE)4-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal
extremity

<400> 53

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15

Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 54

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 55

Leu Glu Gly Arg Glu Arg Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15

Ser Thr Trp Ser Xaa Arg Arg Xaa
20

<210> 56
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents citruline (Cit)

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Stearoyl (-(TTDS)3-(gE)3-Stea)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents α -methyl-lysine (Mly)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

<400> 56

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 57

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents homolysine (Hly)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal

extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<400> 57

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 58

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)4-(gamma glutamic
acid)3-Stearoyl (-(TTDS)4-(gE)3-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 58

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 59

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the

nitrogen atom of its lateral chain to a -(TTDS)4-(gamma glutamic acid)3-Stearoyl (-(TTDS)4-(gE)3-Stea)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 59

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Lys	Xaa								
			20												

<210> 60

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)2-(gamma glutamic acid)3-Stearoyl (-(TTDS)2-(gE)3-Stea)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 60
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Lys Xaa
 20

<210> 61
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT

<222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Stearoyl (-(TTDS)3-(gE)3-Stea)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 61
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Lys Xaa
 20

<210> 62
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT

<222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)4-Palmitoyl (-(TTDS)3-(gE)4-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<400> 62
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 63
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT

<222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
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 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
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 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 63
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Gln Trp Ser Xaa Arg Lys Xaa
 20

<210> 64
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 64
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Arg Trp Ser Xaa Arg Lys Xaa
 20

<210> 65
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 9
<223> Xaa in position 9 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH2 group on its C-terminal
extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<400> 65
 Leu Glu Gly Arg Glu Lys Val Arg Xaa Gln Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

<210> 66
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa in position 20 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 66
Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Trp Xaa Xaa Arg Ala Xaa
 20

<210> 67
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic

acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 67

Leu	Glu	Gly	Arg	Glu	Arg	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
				20											

<210> 68

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 23
 <223> Xaa in position 23 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 68
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Xaa Lys
 20

<210> 69
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)³-(gamma glutamic acid)³-Palmitoyl (-(TTDS)³-(gE)³-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 23

<223> Xaa in position 23 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 69

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa

1

5

10

15

Ser Thr Trp Ser Xaa Arg Xaa Arg

20

<210> 70

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 70

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Ile	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Lys	Xaa								
			20												

<210> 71

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<400> 71
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Ala Lys
 20

<210> 72
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT

<222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 20
 <223> Xaa in position 20 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<400> 72
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Xaa Arg Arg Ala Xaa
 20

<210> 73
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT

<222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 73
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Lys Trp Ser Xaa Arg Ala Lys
 20

<210> 74
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT

<222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

 <220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

 <220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

 <220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)4-(gamma glutamic acid)3-Palmitoyl (-(TTDS)4-(gE)3-Palm)

 <220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

 <220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

 <220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

 <400> 74
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Ile Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Lys Xaa
 20

 <210> 75
 <211> 24
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Peptide analogue of the B-chain of Relaxin-2

 <220>

<222> 1

 $\langle 220 \rangle$

<222> 10

 $\langle 220 \rangle$

<222> 12

 $\langle 220 \rangle$

<222> 13

 $\langle 220 \rangle$

<222> 16

 $\langle 220 \rangle$

<222> 21

 $\langle 220 \rangle$

<222> 24

$\langle 220 \rangle$

<222> 24

<400> 75

Ser Thr Trp Ser Xaa Arg Arg Xaa
20

<211> 24

<213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 76
 Leu Glu Gly Arg Glu Arg Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Arg Xaa

<210> 77
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide analogue of the B-chain of Relaxin-2

<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)4-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)4-(gE)3-Palm)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

<400> 77

Leu Glu Gly Arg Glu Arg Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15
Ser Thr Phe Ser Xaa Arg Arg Xaa
 20

<210> 78

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)4-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)4-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal

extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<400> 78

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Phe	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 79

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 79

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Lys	Phe	Ser	Xaa	Arg	Lys	Xaa								
			20												

<210> 80

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the

nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 19

<223> Xaa in position 19 represents 5-chloro-tryptophan (Trp(5Cl))

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 80

Leu	Glu	Gly	Arg	Glu	Arg	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Xaa	Ser	Xaa	Arg	Arg	Xaa								
			20												

<210> 81

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH₂ group on its C-terminal
extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<400> 81

Xaa Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
1 5 10 15

Ser Thr Phe Ser Xaa Arg Ala Xaa
20

<210> 82

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 9

<223> Xaa in position 9 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 82

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Xaa	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Thr	Trp	Ser	Xaa	Arg	Ala	Xaa								
			20												

<210> 83

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

<220>
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<220>
<221> VARIANT
<222> 1
<223> The peptide is substituted with an acetyl (Ac) group on its
N-terminal extremity

<220>
<221> VARIANT
<222> 10
<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<220>
<221> VARIANT
<222> 12
<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 13
<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 16
<223> Xaa in position 16 represents a lysine amino acid bound on the
nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
<221> VARIANT
<222> 21
<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>
<221> VARIANT
<222> 24
<223> The peptide is substituted with an -NH2 group on its C-terminal
extremity

<220>
<221> VARIANT
<222> 24
<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
(Nε-Acetyl-lysine - K(Ac))

<400> 83

Leu	Glu	Gly	Arg	Glu	Lys	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10					15	
Ser	Lys	Trp	Ser	Xaa	Arg	Lys	Xaa								
			20												

<210> 84
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 84
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Ile Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
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<210> 85
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa in position 9 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
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 <222> 21
 <223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 85
 Leu Glu Gly Arg Glu Arg Val Arg Xaa Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Trp Ser Xaa Arg Arg Xaa
 20

<210> 86
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 1
 <223> Xaa in position 1 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)³-(gamma glutamic acid)³-Palmitoyl (-(TTDS)³-(gE)³-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α -methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<400> 86
 Xaa Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Ile Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 87
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
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 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 87
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Arg Arg Ala Xaa
 20

<210> 88
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents homolysine (Hly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 88
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 89
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 19
 <223> Xaa in position 19 represents α -methyl-phenylalanine (Mph)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (N ϵ -Acetyl-lysine - K(Ac))

<400> 89
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Xaa Ser Arg Arg Ala Xaa
 20

<210> 90
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid

(Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 90

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Ala Xaa Glu Gly Xaa

1

5

10

15

Ser Thr Phe Ser Xaa Arg Ala Xaa

20

<210> 91

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 19

<223> Xaa in position 19 represents 4-fluoro-phenylalanine (Pfp)

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 91

Leu	Glu	Gly	Arg	Glu	Arg	Val	Arg	Ala	Xaa	Ile	Xaa	Xaa	Glu	Gly	Xaa
1				5					10				15		
Ser	Thr	Xaa	Ser	Xaa	Arg	Arg	Xaa								
			20												

<210> 92

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide analogue of the B-chain of Relaxin-2

<220>

<221> VARIANT

<222> 1

<223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 16

<223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>

<221> VARIANT

<222> 19

<223> Xaa in position 19 represents 5-fluoro-tryptophan (Trp(5F))

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 represents 2-amino-isobutyric acid (Aib)

<220>

<221> VARIANT

<222> 24

<223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 92

Leu Glu Gly Arg Glu Arg Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa

1		5		10		15
Ser	Thr	Xaa	Ser	Xaa	Arg	Arg
						Xaa
		20				

<210> 93
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<400> 93

Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Thr Arg Arg Ala Xaa
 20

<210> 94
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Palmitoyl (-(TTDS)3-(gE)3-Palm)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<400> 94
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Val Arg Arg Ala Xaa
 20

<210> 95
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (N ϵ -Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic
 acid)₃-Myristoyl (-(TTDS)₃-(gE)₃-Myr)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α -methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<220>
 <221> VARIANT
 <222> 24
 <223> Xaa in position 24 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<400> 95
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Xaa
 20

<210> 96
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid
 (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the
 nitrogen atom of its lateral chain to a -(TTDS)3-(gamma glutamic
 acid)3-Myristoyl (-(TTDS)3-(gE)3-Myr)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH₂ group on its C-terminal extremity

<400> 96
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Lys
 20

<210> 97
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its N-terminal extremity

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa in position 10 represents 2-amino-4-acetamido-hexanoic acid (Nε-Acetyl-lysine - K(Ac))

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa in position 12 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 13
 <223> Xaa in position 13 represents 2-amino-isobutyric acid (Aib)

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa in position 16 represents a lysine amino acid bound on the nitrogen atom of its lateral chain to a -(TTDS)₃-(gamma glutamic acid)₄-Myristoyl (-(TTDS)₃-(gE)₄-Myr)

<220>
 <221> VARIANT
 <222> 21
 <223> Xaa in position 21 represents α-methyl-lysine (Mly)

<220>
 <221> VARIANT
 <222> 24
 <223> The peptide is substituted with an -NH2 group on its C-terminal extremity

<400> 97
 Leu Glu Gly Arg Glu Lys Val Arg Ala Xaa Ile Xaa Xaa Glu Gly Xaa
 1 5 10 15
 Ser Thr Phe Ser Xaa Arg Ala Lys
 20

<210> 98
 <400> 98
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<210> 99
 <400> 99
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<210> 100
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> H2-relaxin A chain

<220>
 <223> H2-relaxin A chain

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with a hydrogen atom (H) on its N-terminal extremity

<400> 100
 Gln Leu Tyr Ser Ala Leu Ala Asn Lys Cys Cys His Val Gly Cys Thr
 1 5 10 15
 Lys Arg Ser Leu Ala Arg Phe Cys
 20

<210> 101
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> H2-relaxin B chain

<220>
 <223> H2-relaxin B chain

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with a hydrogen atom (H) on its
 N-terminal extremity

<400> 101
 Asp Ser Trp Met Glu Glu Val Ile Lys Leu Cys Gly Arg Glu Leu Val
 1 5 10 15
 Arg Ala Gln Ile Ala Ile Cys Gly Met Ser Thr Trp Ser
 20 25

<210> 102
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with a hydrogen atom (H) on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 27
 <223> The peptide is substituted with an -NH₂ group on its C-terminal
 extremity

<400> 102
 Val Ile Lys Leu Ser Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile
 1 5 10 15
 Ser Gly Met Ser Thr Trp Ser Lys Arg Ser Leu
 20 25

<210> 103
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 27
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<400> 103
 Val Ile Lys Leu Ser Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile
 1 5 10 15
 Ser Gly Met Ser Thr Trp Ser Lys Arg Ser Leu
 20 25

<210> 104
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <223> Peptide analogue of the B-chain of Relaxin-2 - comparison example

<220>
 <221> VARIANT
 <222> 1
 <223> The peptide is substituted with an acetyl (Ac) group on its
 N-terminal extremity

<220>
 <221> VARIANT
 <222> 27
 <223> The peptide is substituted with an -NH2 group on its C-terminal
 extremity

<400> 104
 Val Ile Lys Leu Ser Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile
 1 5 10 15
 Ser Gly Met Ser Thr Trp Ser Lys Lys Lys Lys
 20 25