

<110> GlobeTech Innovation s.r.o.

<120> Skin renewing and healing mixture of peptide components and its use

<140> PCT/IB2020/050418

<141> 2020-01-20

<150> CZ2019-34

<151> 2019-01-21

<160> 48

<210> 1

<211> 3

<212> PRT

<213> Unknown

<220>

<221> METAL

<222> (1)

<223> peptide a), copper is bound on a first amino acid

<400> 1

Gly	His	Lys
1		3

<210> 2

<211> 4

<212> PRT

<213> Unknown

<220>

<223> peptide b)

<400> 2

Asp	Ala	His	Lys
1			4

<210> 3

<211> 2

<212> PRT

<213> Unknown

<220>

<223> peptide c) Carnosine

<400> 3

Ala	His
1	2

<210> 4

<211> 3

<212> PRT

<213> Unknown

<220>

<223> peptide d)

<400> 4

Pro	Leu	Gly
1		3

<210> 5

<211> 3

<212> PRT

<213> Unknown

<220>

<221> ACID

<222> (1)

<223> peptide e), trifluoroacetic acid is bound on a first amino acid

<221> HYDROXYLATION

<222> (3)

<223> peptide e), hydroxy group is bound on a third amino acid

<400> 5

Val	Trp	Val
1		3

<210> 6

<211> 3

<212> PRT

<213> Unknown

<220>

<221> ACID

<222> (3)

<223> peptide f), citrulline is bound on a third amino acid

<400> 6

Lys	Asp	Ile
1		3

<210> 7

<211> 3

<212> PRT

<213> Unknown

<220>

<221> PALMITATE

<222> (1)

<223> peptide g), palmitoyl is bound on a first amino acid

<400> 7

Gly	His	Lys
1		3

<210> 8

<211> 4

<212> PRT

<213> Unknown
 <220>
 <221> PALMITATE
 <222> (1)
 <223> peptide h), palmitoyl is bound on a first amino acid
 <400> 8

Gly	Gln	Pro	Arg
1			4

<210> 9
 <211> 4
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide i)
 <400> 9

Lys	Arg	Phe	Lys
1			4

<210> 10
 <211> 3
 <212> PRT
 <213> Unknown
 <220>
 <221> PALMITATE
 <222> (1)
 <223> peptide j), palmitoyl is bound on a first amino acid
 <221> ACID
 <222> (3)
 <223> peptide j), bis trifluoroacetic acid is bound on a third amino acid
 <400> 10

Lys	Val	Lys
1		3

<210> 11
 <211> 5
 <212> PRT
 <213> Unknown
 <220>
 <221> PALMITATE
 <222> (1)
 <223> peptide k), palmitoyl is bound on a first amino acid
 <221> HYDROXYLATION
 <222> (5)
 <223> peptide k), hydroxy group is bound on a fifth amino acid
 <400> 11

Lys	Thr	Thr	Lys	Ser
1				5

<210> 12
 <211> 4
 <212> PRT
 <213> Unknown
 <220>
 <221> PALMITATE
 <222> (1)
 <223> peptide l), palmitoyl is bound on a first amino acid
 <400> 12
 Gly Gln Pro Arg
 1 4

<210> 13
 <211> 6
 <212> PRT
 <213> Unknown
 <220>
 <221> PALMITATE
 <222> (1)
 <223> peptide m), palmitoyl is bound on a first amino acid
 <400> 13
 Val Gly Val Ala Pro Gly
 1 5 6

<210> 14
 <211> 4
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide n)
 <400> 14
 Gly Glu Lys Gly
 1 4

<210> 15
 <211> 4
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide o)
 <400> 15
 Pro Lys Glu Lys
 1 4

<210> 16
 <211> 6
 <212> PRT
 <213> Unknown

<220>
 <223> peptide p)
 <400> 16
 Phe Val Ala Pro Phe Pro
 1 5 6

<210> 17
 <211> 3
 <212> PRT
 <213> Unknown
 <220>
 <221> METAL
 <222> (1)
 <223> peptide q), manganese is bound on a first amino acid
 <400> 17
 Gly His Lys
 1 3

<210> 18
 <211> 5
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide r)
 <400> 18
 Gly Pro Arg Pro Ala
 1 5

<210> 19
 <211> 5
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide s)
 <400> 19
 Tyr Ala Gly Phe Leu
 1 5

<210> 20
 <211> 4
 <212> PRT
 <213> Unknown
 <220>
 <221> ACID
 <222> (6)
 <223> peptide t), acetate is bound on a sixth amino acid
 <400> 20
 Ala Pro Asn His

1

4

<210> 21

<211> 39

<212> PRT

<213> Unknown

<220>

<223> peptide u), Exendin-4

<400> 21

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

Met	Glu	Glu	Glu	Ala	Val	Arg	Leu	Phe	Ile
Glu	Trp	Leu							
	15					20			
25									

Lys	Asn	Gly	Gly	Pro	Ser	Ser	Gly	Ala	Pro
Pro	Pro	Ser							
			30					35	
	39								

<210> 22

<211> 20

<212> PRT

<213> Unknown

<220>

<223> peptide v)

<400> 22

Tyr	Val	Ser	Pro	Gly	Met	Lys	Asn	Val	Asn
Trp	Trp	Ser							
1				5					10

His	Trp	Trp	His	Ala	Thr	Asp
	15					20

<210> 23

<211> 4

<212> PRT

<213> Unknown

<220>

<221> UNSPECIFIED

<222> (1)

<223> peptide w), hydrogen, butoxycarbonyl (Boc), fluorenylmethoxycarbonyl (Fmoc), methyl or ethyl is bound on a first amino acid

<221> UNSPECIFIED

<222> (4)

<223> peptide w), hydroxy group, oxomethyl, oxoethyl, sodium, potassium or oxoammonium (ONH4) is bound on a fourth amino acid

<400> 23

Gly	Pro	Ala	Gly
1			4

<210> 24

<211> 7

<212> PRT

<213> Unknown

<220>

<223> peptide x)

<400> 24

Val	Tyr	Tyr	Val	Gly	Arg	Lys
1				5		7

<210> 25

<211> 11

<212> PRT

<213> Unknown

<220>

<223> peptide y)

<400> 25

Trp	Cys	Lys	Pro	Lys	Pro	Lys	Pro	Arg	Cys
His				5					10
1									
11									

<210> 26

<211> 7

<212> PRT

<213> Unknown

<220>

<223> peptide z)

<400> 26

Gln	His	Arg	Glu	Asp	Gly	Ser
1				5		7

<210> 27

<211> 12

<212> PRT

<213> Unknown

<220>

<223> peptide aa)

<400> 27

Tyr	Gly	Arg	Arg	Arg	Arg	Arg	Gln	Arg	Arg
Arg	Pro								

1	5	10
12		

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<210> 28
<211> 15
<212> PRT
<213> Unknown
<220>
<221> HYDROXYLATION
<222> (5)
<223> peptide bb), hydroxy group is bound on a fourth amino acid
<400> 28
His      Leu      Glu      Pro      Pro      Pro      Leu      Lys      Pro      Ala
Asp      Ala      Leu
  1                      5                      10

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Gly      Val
         15

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<210> 29
<211> 30
<212> PRT
<213> Unknown
<220>
<223> peptide cc) AG30
<400> 29
Met      Leu      Ser      Leu      Ile      Phe      Leu      His      Arg      Leu
Lys      Ser      Met
  1                      5                      10

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Arg      Lys      Arg      Leu      Asp      Arg      Lys      Leu      Arg      Leu
Trp      His
         15
25
Lys      Asn      Tyr      Pro
         30

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<210> 30
<211> 30
<212> PRT
<213> Unknown
<220>
<223> peptide dd) AG30/5C
<400> 30
Met      Leu      Lys      Leu      Ile      Phe      Leu      His      Arg      Leu
Lys      Arg      Met

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1				5					10
Arg	Lys	Arg	Leu	Lys	Arg	Lys	Leu	Arg	Leu
Trp	His	Arg							
	15					20			
25									
Lys	Arg	Tyr	Lys						
			30						
<210> 31									
<211> 24									
<212> PRT									
<213> Unknown									
<220>									
<223> peptide ee) AH90									
<400> 31									
Ala	Thr	Ala	Trp	Asp	Phe	Gly	Pro	His	Gly
Leu	Leu	Pro							
1				5					10
Ile	Arg	Pro	Ile	Arg	Ile	Arg	Pro	Leu	Cys
Gly									
	15					20			
24									
<210> 32									
<211> 11									
<212> PRT									
<213> Unknown									
<220>									
<223> peptide ff) CW49									
<400> 32									
Ala	Pro	Phe	Arg	Met	Gly	Ile	Cys	Thr	Thr
Asn									
1				5					10
11									
<210> 33									
<211> 12									
<212> PRT									
<213> Unknown									
<220>									
<223> peptide gg) Cys-KR12									
<400> 33									
Lys	Arg	Ile	Val	Lys	Arg	Ile	Lys	Lys	Trp
Leu	Arg								
1				5					10
12									

<210> 34
 <211> 21
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide hh) Esculentin-1a(1-21)
 <400> 34
 Gly Ile Phe Ser Lys Leu Ala Gly Lys Lys
 Ile Lys Asn
 1 5 10

Leu Leu Ile Ser Gly Leu Lys Gly
 15 20 21

<210> 35
 <211> 36
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide ii) hBD-1
 <400> 35
 Asp His Tyr Asn Cys Val Ser Ser Gly Gly
 Gln Cys Leu
 1 5 10

Tyr Ser Ala Cys Pro Ile Phe Thr Lys Ile
 Gln Gly Thr
 15 20
 25
 Cys Tyr Arg Gly Lys Ala Lys Cys Cys Lys
 30 35 36

<210> 36
 <211> 41
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide jj) hBD-2
 <400> 36
 Gly Ile Gly Asp Pro Val Thr Cys Leu Lys
 Ser Gly Ala
 1 5 10

Ile Cys His Pro Val Phe Cys Pro Arg Arg

Tyr 25	Lys 15	Gln					20			
Ile Cys	Gly Cys	Thr Lys	Cys 30	Gly	Leu	Pro	Gly	Thr 35	Lys	
Lys 40	Pro 41									

<210> 37
 <211> 38
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide kk) Histatin-1
 <400> 37

Asp Arg 1	Ser Arg	His Lys	Glu	Lys 5	Arg	His	His	Gly	Tyr 10
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Phe Phe 25	His Pro 15	Glu Phe	Lys	His	His	Ser 20	His	Arg	Glu
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Tyr Asp 38	Gly Asn	Asp	Tyr 30	Gly	Ser	Asn	Tyr	Leu 35	Tyr
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<210> 38
 <211> 27
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide ll) Histatin-2
 <400> 38

Arg Arg 1	Lys Glu	Phe Phe	His	Glu 5	Lys	His	His	Ser	His 10
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Pro Leu 25	Phe Tyr 15	Tyr Asp	Gly	Asp	Tyr	Gly 20	Ser	Asn	Tyr
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Asn
27

<210> 39
<211> 32
<212> PRT
<213> Unknown
<220>
<223> peptide mm) Histatin-3
<400> 39

Asp	Ser	His	Ala	Lys	Arg	His	His	Gly	Tyr
Lys	Arg	Lys							
1				5					10

Phe	His	Glu	Lys	His	His	Ser	His	Arg	Gly
Tyr	Arg	Ser							
	15					20			
25									

Asn	Tyr	Leu	Tyr	Asp	Asn				
			30		32				

<210> 40
<211> 12
<212> PRT
<213> Unknown
<220>
<223> peptide nn) IDR-1018
<400> 40

Val	Arg	Leu	Ile	Val	Ala	Val	Arg	Ile	Trp
Arg	Arg								
1				5					10
12									

<210> 41
<211> 37
<212> PRT
<213> Unknown
<220>
<223> peptide oo) LL-37
<400> 41

Leu	Leu	Gly	Asp	Phe	Phe	Arg	Lys	Ser	Lys
Glu	Lys	Ile							
1				5					10

Gly	Lys	Glu	Phe	Lys	Arg	Ile	Val	Gln	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Ile	Lys	Asp							
25	15					20			
Phe	Leu	Arg	Asn	Leu	Val	Pro	Arg	Thr	Glu
Ser			30					35	
37									

<210> 42
 <211> 20
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide pp) Pep19-2.5
 <400> 42

Gly	Cys	Lys	Lys	Tyr	Arg	Arg	Phe	Arg	Trp
Lys	Phe	Lys		5					10
1									

Gly	Lys	Phe	Trp	Phe	Trp	Gly
	15					20

<210> 43
 <211> 38
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide qq) PLL-37
 <400> 43

Pro	Leu	Leu	Gly	Asp	Phe	Phe	Arg	Lys	Ser
Lys	Glu	Lys		5					10
1									

Ile	Gly	Lys	Glu	Phe	Lys	Arg	Ile	Val	Gln
Arg	Ile	Lys				20			
25	15								

Asp	Phe	Leu	Arg	Asn	Leu	Val	Pro	Arg	Thr
Glu	Ser		30					35	
38									

<210> 44
 <211> 19
 <212> PRT

Ala	Pro	Lys	Ala	Met	Lys	Leu	Leu	Lys	Lys
Leu	Leu	Lys							
1				5					10

Leu Gln Lys Lys Gly Ile
 15 19

Met	Leu	Lys	Leu	Ile	Phe	Leu	His	Arg	Leu
Lys	Arg	Met							
1				5					10

Arg Lys Arg Leu Lys Arg Lys
 15 20

Met	Leu	Lys	Leu	Ile	Phe	Leu	His	Arg	Leu
Lys	Arg	Met							
1				5					10

Arg Lys Arg Leu Lys Arg Lys
 15 20

<400> 47

Phe	Leu	Pro	Leu	Ile	Gly	Arg	Val	Leu	Ser
Gly	Ile	Leu							
1				5					10
	13								

<210> 48
 <211> 13
 <212> PRT
 <213> Unknown
 <220>
 <223> peptide vv) Temporin B
 <400> 48

Leu	Leu	Pro	Ile	Val	Gly	Asn	Leu	Leu	Lys
Ser	Leu	Leu							
1				5					10
	13								