

# SEQUENCE LISTING

<110> Protagonist Therapeutics, Inc.  
 Bourne, Gregory Thomas  
 Zhang, Jie  
 Frederick, Brian Troy  
 Bhandari, Ashok  
 Smythe, Mark Leslie

<120> CONJUGATED HEPCIDIN MIMETICS

<130> PRTH-057/02WO 321085-2383

<160> 621

<170> PatentIn version 3.5

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| Xaa | Xaa | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<400> 31

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<400> 32

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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1

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<223> (D)Lys

<400> 34

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

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<400> 39

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<400> 41

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<400> 42

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<223> Lys(PEG12\_Palm)

<220>

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<400> 43

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Lys Arg Cys  
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<210> 44

<211> 13

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<400> 45

Xaa Glu Thr His Xaa Pro Cys Ile Lys Xaa Xaa Arg Cys  
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<210> 46

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<400> 46

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Arg Cys  
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<210> 47  
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<223> bhPhe

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<222> (11)..(11)

<223> Lys(2Peg20K)

<400> 47

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1 5 10

<210> 48

<211> 13

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<220>

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<400> 48

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<400> 49

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1 5 10

<210> 50  
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Arg Cys  
1 5 10

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<400> 51

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Arg Cys  
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<222> (5)..(5)  
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<220>  
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<220>  
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<220>  
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<400> 52

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     |     | 10  |

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<400> 53

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<220>  
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<223> Phe(4-F)

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<400> 55

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1 5 10

<210> 56  
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<222> (5)..(5)  
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<220>  
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<223> (D)Lys

<400> 56

|     |     |     |     |     |     |     |     |     |     |     |     |
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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
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<210> 57  
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<223> Lys(PEG12\_KKK\_Palm)

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<400> 57



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1 5 10

<210> 58  
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<220>  
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<400> 58

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 59  
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<212> PRT  
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<220>  
<223> Made in Lab - peptide analogs of hepcidin

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<400> 59

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1 5 10

<210> 60  
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1 5 10

<210> 61  
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<400> 61

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<223> (D)Lys

<400> 64

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
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<223> (D)Lys

<400> 65

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 66

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     |     | 10  |

<210> 67

<211> 13

<212> PRT

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<400> 67

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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<400> 68

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<210> 70

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<400> 70

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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<400> 71

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1 5 10

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<400> 72

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1 5 10

<210> 73  
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<400> 73

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1 5 10

<210> 74  
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<400> 74

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<210> 75  
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<220>  
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<400> 76

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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<210> 77  
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Xaa  
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<223> (D)Lys

<400> 78

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<400> 79

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
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<220>

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<400> 80

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1

5

10

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<211> 13

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<400> 81

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<210> 82  
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<400> 82

Xaa Glu Thr His Xaa Pro Cys Xaa Xaa Xaa Xaa Xaa Cys  
1 5 10

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<400> 83

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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<210> 84

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<220>

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<222> (12)..(12)

<223> (D)Lys

<400> 84

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | His | Xaa | Arg | Trp | Cys |
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| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
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Cys Lys

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<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(Ahx)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<400> 201

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Arg Cys  
1 5 10

<210> 202  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (4)..(4)  
<223> His(1-Me)

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(PEG12\_Palm)

<220>  
<221> MOD\_RES

<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 202

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | Xaa | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 203  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> (D)Lys

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> (D)Lys

<400> 203

|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Ala | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |

<210> 204  
<211> 12  
<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG8\_Ahx\_Palm)

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 204

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys

1

5

10

<210> 205

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>

<221> MOD\_RES  
<222> (17)..(17)  
<223> Pen

<400> 205

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Xaa | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 206  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 206

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 207  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
<221> MOD\_RES  
<222> (16)..(16)  
<223> Sarc

<400> 207

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Cys

<210> 208  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 208

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Cys

<210> 209  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 209

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 210

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 210

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Gly | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

<210> 211

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>

<221> MOD\_RES

<222> (17)..(17)

<223> Pen



<400> 211

Xaa Glu Thr His Phe Pro Cys Ile Lys Phe Xaa Pro Arg Ser Lys Gly  
1 5 10 15  
Xaa Lys

<210> 212

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 212

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
1 5 10 15  
Cys Thr

<210> 213

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 213

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
1 5 10 15

Cys Glu

<210> 214  
<211> 18  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in Lab - peptide analogs of hepcidin  
  
<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid  
  
<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)  
  
<220>  
<221> MOD\_RES  
<222> (15)..(15)  
<223> Lys(Ac)  
  
<400> 214

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Xaa Gly  
1 5 10 15  
Cys Thr

<210> 215  
<211> 18  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in Lab - peptide analogs of hepcidin  
  
<220>  
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<222> (1)..(1)  
<223> Isovaleric Acid  
  
<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)  
  
<220>  
<221> MOD\_RES  
<222> (15)..(15)

<223> Lys(Ac)

<400> 215

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Xaa Gly  
1 5 10 15  
Cys Glu

<210> 216

<400> 216  
000

<210> 217

<400> 217  
000

<210> 218  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> (D)Lys

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<400> 218

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 219

<400> 219

000

<210> 220

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<400> 220

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
1 5 10 15  
Cys Lys

<210> 221

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<400> 221

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly







<210> 228  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(IsoGlu\_palm)

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Lys(Ac)

<400> 228

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Xaa | Ser | Lys | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Cys | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 229  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(IsoGlu\_palm)

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Lys(Ac)

<220>



<221> MOD\_RES  
<222> (17)..(17)  
<223> Pen

<400> 229

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Xaa | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Xaa | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 230  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(IsoGlu\_palm)

<220>  
<221> MOD\_RES  
<222> (13)..(13)  
<223> Lys(Ac)

<400> 230

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Xaa | Ser | Gly | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

<210> 231  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES

<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(IsoGlu\_palm)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 231

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 232  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C16\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)

<223> (D)Lys

<400> 232

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 233

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C14\_Diacid)

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 233

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 234

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C12\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 234

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 235  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C10\_Diacid)

<220>  
<221> MOD\_RES

<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 235

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 236  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
<221> MOD\_RES  
<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 236

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 237  
<211> 12  
<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(PEG4\_PEG4\_IsoGlu\_C18\_Diacid)

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 237

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys

1

5

10

<210> 238

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG8\_IsoGlu\_C18\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 238

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

<210> 239  
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<220>  
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<220>  
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<223> Dpa

<220>  
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<223> Lys(PEG4\_IsoGlu\_C18\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
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<220>  
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<222> (11)..(11)  
<223> (D)Lys

<400> 239

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 240  
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<212> PRT  
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<220>  
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<220>  
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<222> (5)..(5)  
<223> Dpa

<220>  
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<223> Lys(IsoGlu\_C18\_Diacid)

<220>  
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<220>  
<221> MOD\_RES  
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<223> (D)Lys

<400> 240

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 241  
<211> 12  
<212> PRT  
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<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<223> Dpa

<220>  
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<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
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<222> (10)..(10)  
<223> bhPhe

<220>  
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<223> (D)Lys

<400> 241

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 242  
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<220>  
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<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C16\_Diacid)

<400> 242

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
1 5 10 15  
Cys Lys

<210> 243  
<211> 18  
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<220>  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C14\_Diacid)

<400> 243

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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<212> PRT  
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<220>  
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<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C12\_Diacid)

<400> 244

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 245  
<211> 18  
<212> PRT  
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<220>  
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<220>  
<221> MOD\_RES  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C10\_Diacid)

<400> 245

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Cys | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 246  
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<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C16\_Diacid)

<400> 246

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Cys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 247  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C14\_Diacid)

<400> 247

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 248  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

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<222> (1)..(1)  
<223> Isovaleric Acid

<220>  
<221> MOD\_RES  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C12\_Diacid)

<400> 248

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 249  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

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<223> Isovaleric Acid

<220>  
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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C10\_Diacid)

<400> 249

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1 5 10 15  
Cys

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<400> 250  
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<210> 251

<400> 251  
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<210> 252

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<210> 253

<400> 253  
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<210> 254  
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<223> Made in Lab - peptide analogs of hepcidin

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<223> Dpa

<220>  
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<220>  
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<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 254

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 255  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

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<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>  
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<222> (10)..(10)  
<223> bhPhe

<220>  
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<223> (D)Lys(PEG11\_OMe)

<400> 255

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 256  
<211> 12  
<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>

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<223> bhPhe

<220>

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<222> (11)..(11)

<223> (D)Lys(PEG8\_OMe)

<400> 256

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys

1

5

10

<210> 257

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

<221> MOD\_RES

<222> (1)..(1)

<223> Isovaleric Acid

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>  
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<220>  
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<223> (D)Lys(PEG3\_OMe)

<400> 257

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

<210> 258  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<222> (1)..(1)  
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<220>  
<221> MOD\_RES  
<222> (5)..(5)  
<223> Dpa

<220>  
<221> MOD\_RES  
<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
<221> MOD\_RES  
<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys(PEG11\_OMe)

<400> 258



Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 259  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<220>  
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<223> Dpa

<220>  
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<222> (9)..(9)  
<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
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<222> (10)..(10)  
<223> bhPhe

<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 259

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 260  
<211> 12  
<212> PRT  
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<220>  
<223> Made in Lab - peptide analogs of hepcidin

<220>  
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<220>
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<223> Dpa

<220>
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<222> (9)..(9)
<223> Lys(1PEG2_1PEG2_IsoGlu_C18_Diacid)

<220>
<221> MOD_RES
<222> (10)..(10)
<223> bhPhe

<220>
<221> MOD_RES
<222> (11)..(11)
<223> (D)Lys

<400> 260

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys
1          5          10

<210> 261
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - peptide analogs of hepcidin

<220>
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<220>
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<220>
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<223> Lys(1PEG2_1PEG2_IsoGlu_C18_Diacid)

<220>
<221> MOD_RES
<222> (10)..(10)
<223> bhPhe

<220>

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<221> MOD\_RES  
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<223> (D)Lys

<400> 261

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 262

<400> 262  
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<210> 263  
<211> 12  
<212> PRT  
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<220>  
<223> Made in Lab - peptide analogs of hepcidin

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<220>  
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<220>  
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<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 263

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 264  
<211> 12

<212> PRT  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
<221> MOD\_RES  
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<400> 264

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 265  
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<212> PRT  
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<220>  
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<220>  
<221> MOD\_RES  
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<223> Lys(PEG12\_C16\_Diacid)

<220>  
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<220>  
<221> MOD\_RES  
<222> (11)..(11)  
<223> (D)Lys

<400> 265

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 266  
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<212> PRT  
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<220>  
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<222> (2)..(2)  
<223> bGlu

<220>  
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<220>  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
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<220>

<221> MOD\_RES  
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<400> 266

Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 267  
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<212> PRT  
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<220>  
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<220>  
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<220>  
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<220>  
<221> MOD\_RES  
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<400> 267

Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 268  
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<212> PRT  
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<220>  
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<220>  
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<223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)

<220>  
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<220>  
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<400> 268

Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 269  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
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<220>  
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 <222> (2)..(2)  
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 <220>  
 <221> MOD\_RES  
 <222> (5)..(5)  
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 <223> Lys(1PEG2\_1PEG2\_IsoGlu\_C18\_Diacid)  
  
 <220>  
 <221> MOD\_RES  
 <222> (10)..(10)  
 <223> bhPhe

<220>  
 <221> MOD\_RES  
 <222> (11)..(11)  
 <223> (D)Lys

<400> 269

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

<210> 270

<400> 270  
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<210> 271  
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<220>  
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<220>  
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<220>



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<220>  
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<220>  
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<223> (D)Lys

<400> 271

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

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<220>  
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<223> (D)Lys

<400> 272

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| Xaa | Glu | Thr | His | Xaa | Xaa | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 273  
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<223> (D)Lys

<400> 273

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Xaa | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 274  
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<400> 274

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10

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<223> Pba

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<400> 275

Xaa Glu Thr His Xaa Xaa Cys Ile Xaa Xaa Xaa Cys  
1 5 10

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<223> (D)Lys

<400> 276

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Xaa | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

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<222> (11)..(11)

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<400> 277

Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 278

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

<220>

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<222> (5)..(5)

<223> Dpa

<220>

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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Dap\_C18\_Diacid)

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<220>

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<222> (11)..(11)

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<400> 278

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 279

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Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<400> 280

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa  
1 5 10

<210> 281  
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<223> (D)Lys

<220>

<221> MOD\_RES

<222> (12)..(12)

<223> Pen

<400> 281

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa  
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<210> 282

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

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<220>

<221> MOD\_RES

<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> (D)Lys

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Lys(Ahx\_Palm)

<220>

<221> MOD\_RES

<222> (12)..(12)

<223> (D)Lys(Acrylamide)

<400> 282

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 283  
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<220>  
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<220>  
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<400> 283

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 284  
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<223> (D)Lys

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<220>  
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<222> (11)..(11)  
<223> Lys(Ahx\_Palm)

<220>  
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<400> 284

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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<210> 285  
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<222> (5)..(5)  
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<220>

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<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Lys(PEG11\_OMe)

<400> 285

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 286

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (5)..(5)

<223> Dpa

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Lys(PEG11\_OMe)

<400> 286

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 287  
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<220>  
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<220>  
<221> MOD\_RES  
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<223> Lys(PEG11\_OMe)

<400> 287

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 288  
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<220>  
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<220>  
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<400> 288

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 289  
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<220>  
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<222> (5)..(5)  
<223> Dpa

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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_OMe

<220>

<221> MOD\_RES

<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 289

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 290

<211> 12

<212> PRT

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<220>

<223> Made in Lab - peptide analogs of hepcidin

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<220>

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<222> (11)..(11)

<223> (D)Lys(Ac)

<400> 290

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
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<220>  
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<220>  
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<220>  
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<400> 291

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 292  
<211> 12  
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<220>  
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<222> (5)..(5)  
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<400> 292

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
1 5 10

<210> 293  
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<220>  
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<223> (D)Lys(PEG11\_OMe)

<400> 293

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 294

<211> 13

<212> PRT

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<223> Made in Lab - peptide analogs of hepcidin

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<222> (5)..(5)

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<220>

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<222> (9)..(9)

<223> Lys(PEG12\_Palm)

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<220>

<221> MOD\_RES

<222> (11)..(11)

<223> Lys(PEG30K)

<400> 294

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Arg | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |

<210> 295

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<212> PRT

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<220>

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<222> (9)..(9)  
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<221> MOD\_RES  
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<400> 295

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Arg Cys  
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<210> 296  
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<212> PRT  
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<222> (10)..(10)  
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<222> (11)..(11)  
<223> Lys(PEG12\_Palm)

<400> 296

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Arg Cys  
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<210> 297  
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<220>  
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<400> 297

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Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 299

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<400> 301

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Xaa Lys

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Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
1 5 10 15  
Xaa Lys

<210> 303

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Xaa Lys



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<400> 304

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| Xaa | Glu | Thr | His | Phe | Pro | Cys | Ile | Xaa | Phe | Glu | Pro | Arg | Ser | Lys | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
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<400> 305

Xaa Glu Thr His Phe Pro Cys Ile Xaa Phe Glu Pro Arg Ser Lys Gly  
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Xaa Lys

<210> 306  
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<210> 307  
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<400> 308

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Xaa |
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<210> 309

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<400> 312

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<220>

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<400> 313

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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa  
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa  
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Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa  
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<210> 320  
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<222> (10)..(10)

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<220>

<221> MOD\_RES

<222> (11)..(11)

<223> (D)Lys

<400> 320

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     |     | 10  |

<210> 321

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<223> His(1-Me)

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<223> (D)Lys

<400> 321

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Xaa | Thr | Xaa | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<400> 322

Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 323  
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|       | His                                       | Xaa |
|       | Pro                                       | Cys |
|       | Ile                                       | Xaa |
|       | Xaa                                       | Xaa |
|       | Xaa                                       | Cys |
|       | Xaa                                       |     |
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<400> 406

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<400> 407

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<400> 421

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<400> 422

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| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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Xaa Glu Thr Xaa Xaa Xaa Cys Ile Xaa Xaa Xaa Cys  
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<211> 12

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| <211> | 12                                        |     |
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| <223> | Made in Lab - peptide analogs of hepcidin |     |
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| <222> | (4)..(4)                                  |     |
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| <222> | (5)..(5)                                  |     |
| <223> | Dpa                                       |     |
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| <223> | (D)Lys(PEG11_OMe)                         |     |
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| Xaa   | Glu                                       | Thr |
| Xaa   | Xaa                                       | Pro |
| Cys   | Ile                                       | Xaa |
| Xaa   | Xaa                                       | Xaa |
| Cys   |                                           |     |
| 1     | 5                                         | 10  |
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys

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 <223> N-MeLys

<400> 448

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Xaa | Xaa | Xaa | Xaa | Cys |
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<400> 449

Xaa Glu Thr His Xaa Pro Cys Xaa Xaa Xaa Xaa Cys  
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<400> 450

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<400> 451

Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys

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10

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Xaa Glu Thr Xaa Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 454  
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Xaa Glu Thr Xaa Xaa Xaa Cys Ile Xaa Xaa Xaa Cys  
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<223> Npc

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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

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<223> (D)Lys(PEG11\_0Me)

<400> 455

Xaa Glu Thr Xaa Xaa Xaa Cys Ile Xaa Xaa Xaa Cys  
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<210> 456

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<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - peptide analogs of hepcidin

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<222> (5)..(5)

<223> Dpa

<220>

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<222> (9)..(9)

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<223> bhPhe

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<223> (D)Lys

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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 457

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<223> Made in Lab - peptide analogs of hepcidin

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<220>

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<222> (11)..(11)

<223> (D)Lys(PEG12\_OMe)

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Xaa Glu Thr Xaa Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<400> 458

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<400> 471

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<400> 481

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<223> Lys(Me3)

<400> 482

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<223> (D)Lys(PEG8\_OMe)

<400> 483

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
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<210> 484

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<400> 484

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<400> 535

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1 5 10

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<400> 536

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<220>

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<222> (11)..(11)

<223> (D)Lys(Carnitine)

<400> 542

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<222> (9)..(9)

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<220>

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<222> (11)..(11)

<223> (D)Lys(Carnitine)

<400> 543

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<400> 544

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

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<220>

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<223> (D)Lys

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Xaa | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<223> (D)Lys

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|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Xaa | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Xaa | Xaa | Xaa | Xaa | Cys |
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Xaa Glu Thr His Xaa Pro Cys Xaa Xaa Xaa Xaa Xaa Cys  
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Xaa Glu Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Xaa Cys  
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Xaa Xaa Thr His Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<400> 558

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<210> 559  
<211> 12  
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<220>  
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<220>  
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<223> Dpa

<220>  
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<220>  
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<220>  
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<223> (D)Lys

<400> 559

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| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<220>

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<220>

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<222> (5)..(5)

<223> Dpa

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<222> (8)..(8)

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<220>

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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>

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<222> (10)..(10)

<223> bhPhe

<220>

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<400> 560

Xaa Glu Thr His Xaa Pro Cys Xaa Xaa Xaa Xaa Cys

1

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10

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<220>  
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<400> 561

Xaa Glu Thr His Xaa Pro Cys Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 562  
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<223> (D)Lys

<400> 562

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| 1   |     |     |     | 5   |     |     |     |     | 10  |     |

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<400> 563

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<212> PRT



<213> Artificial Sequence

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<220>

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<220>

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<222> (5)..(5)

<223> Dpa

<220>

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<222> (9)..(9)

<223> Lys(1PEG2\_1PEG2\_Ahx\_C18\_Diacid)

<220>

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<222> (10)..(10)

<223> bhPhe

<220>

<221> MOD\_RES

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<400> 564

Xaa Glu Thr Xaa Xaa Pro Cys Ile Xaa Xaa Xaa Cys  
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<210> 565

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<212> PRT

<213> Artificial Sequence

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<222> (10)..(10)  
<223> bhPhe

<220>  
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<400> 565

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<220>  
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<220>

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<400> 567

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<210> 568

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<222> (11)..(11)

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<220>

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<400> 568

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<210> 569

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<222> (8)..(8)  
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<223> Lys(Ahx\_Palm)

<220>

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<222> (11)..(11)

<223> (D)Lys

<400> 571

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Xaa | Xaa | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |

<210> 572

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<220>

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<223> Dpa

<220>

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<223> (D)Lys

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<220>

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<223> (D)Lys

<400> 572

|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Xaa | Ala | Xaa | Xaa | Cys |
| 1   |     |     |     | 5   |     |     |     |     |     | 10  |     |     |

<210> 573

<211> 13

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<220>  
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<400> 573

Xaa Glu Thr His Xaa Pro Cys Ala Xaa Xaa Xaa Xaa Cys  
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<400> 574

Xaa Glu Thr His Xaa Ala Cys Ile Xaa Xaa Xaa Xaa Cys  
1 5 10

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<223> (D)Lys

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Ala | Pro | Cys | Ile | Xaa | Xaa | Xaa | Xaa | Cys |
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<222> (10)..(10)

<223> bhPhe

<400> 576

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Thr | His | Xaa | Pro | Cys | Ile | Lys | Xaa | Arg | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

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<400> 577

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Thr | His | Xaa | Pro | Cys | Cys | Xaa | Xaa | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |

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<220>  
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<400> 601

Xaa Glu Thr Xaa Xaa Pro Cys Ile Xaa Xaa Xaa Arg Cys  
1 5 10

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1 5 10

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1 5 10

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1 5 10

<210> 606  
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| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |