

SEQUENCE LISTING

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 Crider, John E.
 Carr, Robert T.
 DeHoff, Bradley B.

<120> INSULINOTROPIC PEPTIDE SYNTHESIS USING SOLID AND SOLUTION PHASE
 COMBINATION TECHNIQUES

<130> Case 24444

<150> US 61/000,622
 <151> 2007-10-27

<160> 79

<170> PatentIn version 3.4

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

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

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| His | Gly | Glu | Gly | Thr | Xaa | Xaa | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

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

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

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

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

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<211> 10

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Gly Ala Pro Pro Pro Ser
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<210> 47

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Pro Pro Pro Ser
20

<210> 48

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 53

<211> 39

<212> PRT

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

Ser Gly Ala Pro Pro Pro Ser
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<223> Forms a pseudoproline residue

<400> 54

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 55

<211> 39

<212> PRT

<213> Artificial

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<222> (7)..(8)

<223> Forms a pseudoproline residue

<400> 55

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

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

Ser Gly Ala Pro Pro Pro Ser
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<210> 56

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<400> 56

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

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

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

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

Ser Gly Ala Pro Pro Pro Ser
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<400> 58

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

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

Ser Gly Ala Pro Pro Pro Ser
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<210> 59
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<400> 59

His Gly Glu Xaa Xaa Phe Xaa Xaa Asp Xaa Xaa Lys Gln Met Glu Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 60
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<400> 60

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Gly | Thr | Xaa | Xaa | Ser | Asp | Leu | Ser | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 61

<211> 39

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<400> 61

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Gly | Thr | Phe | Thr | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

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<400> 62

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Gly | Thr | Xaa | Xaa | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 63
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<223> Forms a pseudoproline residue

<400> 63

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

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 64
<211> 39
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<400> 64

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Phe | Thr | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 65
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<212> PRT
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<220>
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<223> Forms a pseudoproline residue

<400> 65

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Phe | Xaa | Xaa | Asp | Leu | Ser | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 66
<211> 39
<212> PRT

<213> Artificial

<220>

<223> Chemically synthesized peptide

<220>

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<223> Forms a pseudoproline residue

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<221> MISC_FEATURE

<222> (6)..(7)

<223> Forms a pseudoproline residue

<400> 66

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Xaa | Xaa | Ser | Asp | Leu | Ser | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 67

<211> 39

<212> PRT

<213> Artificial

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<223> Chemically synthesized peptide

<220>

<221> MISC_FEATURE

<222> (7)..(8)

<223> Forms a pseudoproline residue

<400> 67

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

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 68

<211> 39

<212> PRT

<213> Artificial

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<223> Chemically synthesized peptide

<220>

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<222> (7)..(8)

<223> Forms a pseudoproline residue

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<222> (10)..(11)

<223> Forms a pseudoproline residue

<400> 68

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Gly | Thr | Phe | Xaa | Xaa | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 69

<211> 39

<212> PRT

<213> Artificial

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<223> Chemically synthesized peptide

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<223> Forms a pseudoproline residue

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<221> MISC_FEATURE

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<223> Forms a pseudoproline residue

<400> 69

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Phe | Xaa | Xaa | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Val | Arg | Leu | Phe | Ile | Glu | Trp | Leu | Lys | Asn | Gly | Gly | Pro | Ser |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

20

25

30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 70

<211> 39

<212> PRT

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<220>

<223> Chemically synthesized peptide

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<221> MISC_FEATURE

<222> (6)..(7)

<223> Forms a pseudoproline residue

<400> 70

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 71

<211> 39

<212> PRT

<213> Artificial

<220>

<223> Chemically synthesized peptide

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<221> MISC_FEATURE

<222> (10)..(11)

<223> Forms a pseudoproline residue

<400> 71

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 72
<211> 39
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<223> Forms a pseudoproline residue

<400> 72

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Gly | Thr | Xaa | Xaa | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 73
<211> 39
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<213> Artificial

<220>
<223> Chemically synthesized peptide

<220>
<221> MISC_FEATURE
<222> (4)..(5)
<223> Forms a pseudoproline residue

<400> 73

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

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 74
<211> 39
<212> PRT
<213> Artificial

<220>
<223> Chemically synthesized peptide

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<223> Forms a pseudoproline residue

<400> 74

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Phe | Thr | Ser | Asp | Xaa | Xaa | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

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

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ala | Pro | Pro | Pro | Ser |
| | | | 35 | | | |

<210> 75
<211> 39
<212> PRT
<213> Artificial

<220>
<223> Chemically synthesized peptide

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<221> MISC_FEATURE
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<220>
<221> MISC_FEATURE
<222> (7)..(8)
<223> Forms a pseudoproline residue

<400> 75

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Glu | Xaa | Xaa | Phe | Xaa | Xaa | Asp | Leu | Ser | Lys | Gln | Met | Glu | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ala | Val | Arg | Leu | Phe | Ile | Glu | Trp | Leu | Lys | Asn | Gly | Gly | Pro | Ser |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

20

25

30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 76
<211> 39
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<220>
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<222> (6)..(7)
<223> Forms a pseudoproline residue

<400> 76

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 77
<211> 39
<212> PRT
<213> Artificial

<220>
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<220>
<221> MISC_FEATURE
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<223> Forms a pseudoproline residue

<400> 77

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

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

20

25

30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 78
<211> 39
<212> PRT
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<221> MISC_FEATURE
<222> (10)..(11)
<223> Forms a pseudoproline residue

<400> 78

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 79
<211> 39
<212> PRT
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<221> MISC_FEATURE

$\langle 222 \rangle$ (10) .. (11)

<223> Forms a pseudoproline residue

<400> 79

His Gly Glu Xaa Xaa Phe Xaa Xaa Asp Xaa Xaa Lys Gln Met Glu Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35