

Sequenzprotokoll_TM405wo.ST25
SEQUENCE LISTING

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Hammamy, Zouhir M.

<120> Verfahren zur Bestimmung der Aktivität der Transglutaminase
Faktor XIIIa

<130> TM405

<150> EP 10151487.5
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<160> 48

<170> PatentIn version 3.3

<210> 1
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Xaa represents a glutamic acid residue wherein the amino group on
carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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<222> (1)..(8)
<223> Xaa represents a glutamic acid residue wherein the amino group on
carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 1
Asn Xaa Glu Asn Val Ser Pro Leu
1 5

<210> 2
<211> 7
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<223> Xaa represents a glutamic acid residue wherein the amino group on
carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

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<222> (1)..(7)
<223> Xaa represents a glutamic acid residue wherein the amino group on
carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 2
Gly Xaa Ser Lys Val Ile Gly
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<210> 3
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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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<222> (1)..(7)
<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 3

Pro Xaa Lys Lys Val Ile Gly
1 5

<210> 4
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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 4

Tyr Xaa Ser Lys Val Ile Gly
1 5

<210> 5
<211> 7
<212> PRT
<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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<222> (1)..(7)
<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 5

Ile Xaa Val Lys Val Ile Gly
1 5

<210> 6
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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 6

Ala Xaa Val Lys Val Ile Gly
1 5

<210> 7

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

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<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 7

Phe Xaa Val Lys Val Ile Gly
1 5

<210> 8

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Xaa1: bound to H and Xaa2, represents a D-phenylalanine (dPhe) residue. Xaa2: bound to Xaa1 and Val, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA).

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1: bound to H and Xaa2, represents a D-phenylalanine (dPhe) residue. Xaa2: bound to Xaa1 and Val, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA).

<400> 8

Xaa Xaa Val Lys Val Ile Gly
1 5

<210> 9

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 9

Tyr Xaa Lys Lys Val Ile Gly
1 5

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

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<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 10

Tyr Xaa Val Lys Val Ile Gly
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<210> 11

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 11

Tyr Xaa Lys Val Val Ile Gly
1 5

<210> 12

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

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 <222> (1)..(6)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 12

Tyr Xaa Val Lys Val Ile
 1 5

<210> 13
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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 <222> (1)..(5)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 13

Tyr Xaa Val Lys Val
 1 5

<210> 14
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<220>
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 14

Tyr Xaa Ile Lys Val Ile Gly
 1 5

<210> 15
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 <212> PRT
 <213> Artificial Sequence

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 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

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<220>
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 <222> (1)..(7)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 15

Tyr Xaa Leu Lys Val Ile Gly
 1 5

<210> 16
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 <213> Artificial Sequence

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 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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 <222> (1)..(7)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 16

Tyr Xaa Val Arg Val Ile Gly
 1 5

<210> 17
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<220>
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 <222> (1)..(6)
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 17

Tyr Xaa Val Lys Val Phe
 1 5

<210> 18
 <211> 7
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<220>
 <223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<220>
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<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a p-nitroanilide group (pNA).

<400> 18

Lys Xaa Val Lys Val Ile Gly
1 5

<210> 19

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1: bound to His and Xaa2, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA). Xaa2: bound to Xaa1 and Lys, represents a Lys residue wherein the NH2 group on C-6 is protected by Z (carboxybenzyl)

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1: bound to His and Xaa2, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA). Xaa2: bound to Xaa1 and Lys, represents a Lys residue wherein the NH2 group on C-6 is protected by Z (carboxybenzyl)

<400> 19

His Xaa Xaa Lys Val Ile Gly
1 5

<210> 20

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1: bound to Tyr and Xaa2, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA). Xaa2: bound to Xaa1 and Lys, represents a Lys residue wherein the NH2 group on C-6 is protected by Z (carboxybenzyl)

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1: bound to Tyr and Xaa2, represents a Glu residue wherein the NH2 group on C-5 is replaced by p-nitroanilide (pNA). Xaa2: bound to Xaa1 and Lys, represents a Lys residue wherein the NH2 group on C-6 is protected by Z (carboxybenzyl)

<400> 20

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 21

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

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<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a 7-amido-5-methyl coumarin group (AMC)

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a 7-amido-5-methyl coumarin group (AMC)

<400> 21

Tyr Xaa Val Lys Val Ile Gly
1 5

<210> 22

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a 7-amido-5-methyl coumarin group (AMC)

<220>

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<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a 7-amido-5-methyl coumarin group (AMC)

<400> 22

Tyr Xaa Val Arg Val Ile Gly
1 5

<210> 23

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the OH group on

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carbon atom No. 5 is replaced by a
(2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a
lysine residue wherein the amino group of the side chain is

<400> 23

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a lysine residue wherein the amino group of the
side chain is substituted with a N(Me)-oAbz group. Xaa2
represents a glutamic acid residue wherein the OH group on carbon
atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl

<220>

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<222> (1)..(7)

<223> Xaa1 represents a lysine residue wherein the amino group of the
side chain is substituted with a N(Me)-oAbz group. Xaa2
represents a glutamic acid residue wherein the amino group on
carbon atom No. 5 is replaced by a

<220>

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<222> (1)..(7)

<223> Xaa1 represents a lysine residue wherein the amino group of the
side chain is substituted with a N(Me)-oAbz group. Xaa2
represents a glutamic acid residue wherein the OH group on carbon
atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl

<400> 24

Xaa Xaa Val Lys Val Ile Gly
1 5

<210> 25

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a glutamic acid residue wherein the OH group on
carbon atom No. 5 is replaced by a
(2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a
lysine residue wherein the amino group of the side chain is

<220>

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<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the amino group
on carbon atom No. 5 is replaced by a
(2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a
lysine residue wherein the amino group of the side chain is

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<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is

<400> 25

Tyr Xaa Xaa Lys Val Ile Gly
 1 5

<210> 26
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is substituted with an o-Abz group. Xaa2 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group.

<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is substituted with an o-Abz group. Xaa2 represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group.

<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is substituted with an o-Abz group. Xaa2 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is replaced by a (2,4-dinitrophenyl)-1,4-diaminobutyl group.

<400> 26

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 27
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is substituted by an (o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Dnp group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is substituted by an

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(o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Dnp

<220>

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<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is substituted by an (o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Dnp group.

<400> 27

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 28

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is substituted by an (N(Me)o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a

<220>

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<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the amino group on carbon atom No. 5 is substituted by an (N(Me)o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the OH group on carbon atom No. 5 is substituted by an (N(Me)o-Abz)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a

<400> 28

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-1,4-diaminobutyl group.

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<221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the amino group of the side chain is replaced by an (o-Abz)-1,4-diaminobutyl group.

<220>
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 <223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-1,4-diaminobutyl group.

<400> 29

Xaa Xaa Val Lys Val Ile Gly
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<210> 30
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<220>
 <223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (N(Me)o-Abz)-1,4-diaminobutyl group.

<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the amino group of the side chain is replaced by an (N(Me)o-Abz)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the lysine side chain is bound to a Dnp group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (N(Me)o-Abz)-1,4-diaminobutyl group.

<400> 30

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 31
 <211> 7
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 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dabsyl-)1,4-diaminobutyl group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group.

<220>

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<221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dabsyl-)1,4-diaminobutyl group. Xaa2 represents a glutamic acid residue wherein tghe OH group of the side chain is replaced by an Edans group.

<400> 31

Tyr Xaa Xaa Lys Val Ile Gly
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<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dabsyl-)1,4-diaminobutyl group.

<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein tghe OH group of the side chain is replaced by an Edans group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dabsyl-)1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dabsyl-)1,4-diaminobutyl group.

<400> 32

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 33
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<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Dabsyl group.

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 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Dabsyl group.

<400> 33

Sequenzprotokoll_TM405wo.ST25

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 34
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<212> PRT
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<220>
<223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Dabsyl group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group.

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Dabsyl group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an Edans group.

<400> 34

Xaa Xaa Val Lys Val Ile Gly
1 5

<210> 35
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Mca group.

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a Mca group.

<400> 35

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 36
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Mca group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (DNP)-1,4-diaminobutyl group.

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<220>
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 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Mca group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<400> 36

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 37
 <211> 7
 <212> PRT
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<220>
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Mca group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (DNP-1,4-diamino butyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to Dansyl group.

<400> 37

Tyr Xaa Xaa Lys Val Ile Gly
 1 5

<210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Dansyl group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a Dansyl group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<400> 38

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 39

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<211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<400> 39

Trp Xaa Val Lys Val Ile Gly
 1 5

<210> 40
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-14,-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-14,-diaminobutyl group.

<400> 40

Tyr Xaa Trp Lys Val Ile Gly
 1 5

<210> 41
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<400> 41

Trp Xaa Val Lys Val Ile Gly
 1 5

<210> 42
 <211> 7
 <212> PRT

<213> Artificial Sequence

<220>

<223> Xaa represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<400> 42

Tyr Xaa Trp Lys Val Ile Gly
1 5

<210> 43

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a 4-nitrophenyl alanine residue. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1 represents a 4-nitrophenyl alanine residue. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group.

<400> 43

Xaa Xaa Val Lys Val Ile Gly
1 5

<210> 44

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group. Xaa2 represents a 4-nitrophenyl alanine residue.

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dansyl)-1,4-diaminobutyl group. Xaa2 represents a 4-nitrophenyl alanine residue.

<400> 44

Tyr Xaa Xaa Lys Val Ile Gly
1 5

<210> 45

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<211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-14,-diaminobutyl group. Xaa2 represents a 4-nitrophenyl alanine residue.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-14,-diaminobutyl group. Xaa2 represents a 4-nitrophenyl alanine residue.

<400> 45

Tyr Xaa Xaa Lys Val Ile Gly
 1 5

<210> 46
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a 3-nitrotyrosine residue. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-1,4-diaminobutyl group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> Xaa1 represents a 3-nitrotyrosine residue. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by an (o-Abz)-1,4-diaminobutyl group.

<400> 46

Xaa Xaa Val Lys Val Ile Gly
 1 5

<210> 47
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a N(Me)-oAbz group.

<220>
 <221> MISC_FEATURE
 <222> (1)..(6)
 <223> Xaa1 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group. Xaa2 represents a lysine residue wherein the amino group of the side chain is bound to a N(Me)-oAbz group.

<400> 47

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Tyr Xaa Xaa Lys Val Ile
1 5

<210> 48
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a N(Me)-oAbz group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<220>
<221> MISC_FEATURE
<222> (1)..(6)
<223> Xaa1 represents a lysine residue wherein the amino group of the side chain is bound to a N(Me)-oAbz group. Xaa2 represents a glutamic acid residue wherein the OH group of the side chain is replaced by a (Dnp)-1,4-diaminobutyl group.

<400> 48

Xaa Xaa Val Lys Val Ile
1 5