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<120> PROTEASE-RESISTANT LIPIDATED PEPTIDES

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<150> 62/343,390

<151> 2016-05-31

<150> 62/173,631

<151> 2015-06-10

<160> 492

<170> PatentIn version 3.5

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<223> /note="See specification as filed for detailed description of
substitutions and preferred embodiments"

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Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly	Arg	Lys
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His	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
1				5					10				15		

Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly	Arg	Lys
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Glu	Ala	Ala	Lys	Glu	Phe	Val	Ala	Phe	Val	Val	Lys	Gly	Gly
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20 25 30

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Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Lys	Gly	Arg
			20					25					30

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20 25 30

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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
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<222> (28)..(28)

<223> alpha-Me-Lys

<400> 25

His	Xaa	Glu	Gly	Ser	Phe	Thr	Gly	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<223> alpha-Me-Lys

<400> 26

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ala	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<222> (25)..(25)

<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 27

His	Xaa	Glu	Gly	Ser	Phe	Thr	Asp	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<223> alpha-Me-Phe

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<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 28

His	Xaa	Glu	Gly	Ser	Phe	Thr	Glu	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<222> (28)..(28)

<223> alpha-Me-Lys

<400> 29

His	Xaa	Glu	Gly	Ser	Phe	Thr	Thr	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<223> alpha-Me-Phe

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<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 30

His	Xaa	Glu	Gly	Ser	Phe	Thr	Val	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20				25					30	

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<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<220>

<221> MOD_RES

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<223> Lys(Epsilon-(PEG)2-(PEG)2-epsilon-gammaGlu-Stearate)

<400> 31

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly	Lys
			20				25					30		

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<211> 31

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<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Lys(Epsilon-gammaGlu-Palmitoyl)

<400> 32

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly	Lys
			20					25					30	

<210> 33

<211> 30

<212> PRT

<213> Artificial Sequence

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<222> (13)..(13)

<223> alpha-Me-Phe

<220>

<221> MOD_RES

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<223> Lys(Epsilon-(PEG)2-(PEG)2-epsilon-gammaGlu-Stearate)

<220>

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<223> alpha-Me-Phe

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<222> (25)..(25)

<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 33

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<222> (25)..(25)

<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 34

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<222> (28)..(28)

<223> alpha-Me-Lys

<220>

<221> MOD_RES

<222> (31)..(31)

<223> Lys(Epsilon-gammaGlu-Palmitoyl)

<400> 35

His	Xaa	Glu	Gly	Ser	Phe	Thr	Asp	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly	Lys
			20					25					30	

<210> 36

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<223> alpha-Me-Ser

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<223> alpha-Me-Phe

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<220>

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<222> (25)..(25)

<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (28)..(28)

<223> alpha-Me-Lys

<400> 36

His	Xaa	Glu	Gly	Ser	Phe	Thr	Asp	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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<400> 37
 His Xaa Glu Gly Ser Phe Thr Asp Asp Val Ser Ser Phe Leu Glu Gly
 1 5 10 15

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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<223> Lys(Epsilon-gammaGlu-Palmitoyl)

<400> 39
His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
20 25 30

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His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
20 25 30

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His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Ala Phe Val Val Lys Gly Gly
20 25 30

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<400> 43
His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Glu Gly Gly
20 25 30

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His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Ala Phe Val Val Glu Gly Gly
20 25 30

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<223> alpha-Me-Lys

<400> 45
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
20 25 30

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 20 25 30

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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Glu	Gly	Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Phe	Val	Val	Glu	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Lys	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Lys	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Lys	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
			20					25					30

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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly
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<223> Lys(Epsilon-gammaGlu-Stearate)

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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 217
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 218
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 228
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 230
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 235
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Glu Ala Ala Lys Glu Phe Ile Ala Phe Val Val Lys Gly Gly Lys
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<400> 236
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Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
 20 25 30

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<400> 238
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 1 5 10 15

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 20 25 30

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1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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<400> 240
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1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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<400> 241

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

Glu	Ala	Ala	Glu	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

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<212> PRT

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<400> 242

His	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5					10					15	

Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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<400> 245
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Glu Ala Ala Glu Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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 1 5 10 15

 Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
 20 25 30

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<400> 247
 His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Lys Phe Leu Glu Gly
 1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Lys Phe Val Val Glu Gly Gly
 20 25 30

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<400> 248

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

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 20 25 30

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 1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
 20 25 30

<210> 251
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Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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<211> 30
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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<400> 253
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1          5          10          15

Glu Ala Ala Lys Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 255

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

<400> 256

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

Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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1 5 10 15

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20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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<400> 263
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1          5          10          15

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20 25 30

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<400> 264
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Glu Ala Ala Lys Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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 1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
 20 25 30

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<400> 267

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Glu Ala Ala Lys Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
20 25 30

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<400> 268
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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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<222> (25)..(25)

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<400> 269

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
1				5					10					15	

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

<210> 270

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<212> PRT

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 1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
 20 25 30

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Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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<400> 273

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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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<400> 274

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

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<400> 275

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
      20          25          30

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20 25 30

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Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Lys	Trp	Val	Val	Glu	Gly	Gly
			20				25						30

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Glu Ala Ala Glu Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
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Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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1				5				10					15		

Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 289

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
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Glu Ala Ala Glu Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
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 Glu Ala Ala Glu Glu Phe Ile Lys Trp Val Val Glu Gly Gly
 20 25 30

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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Lys	Trp	Val	Val	Glu	Gly	Gly
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<400> 300

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-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

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20 25 30

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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Phe	Leu	Glu	Gly
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Glu	Ala	Ala	Glu	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
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20 25 30

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20 25 30

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Glu Ala Ala Lys Glu Phe Ile Lys Trp Val Val Glu Gly Gly
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1          5          10          15

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Glu Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
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Glu Ala Ala Xaa Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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<223> Aib

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 314

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

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20				25						30

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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
20 25 30

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<400> 318

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Aib

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 319

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
      20           25           30

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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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20 25 30

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          20          25          30

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<400> 325
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1          5          10          15

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20 25 30

<210> 326
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20 25 30

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 Glu Ala Ala Xaa Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
 20 25 30

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20 25 30

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<400> 331

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1				5					10					15	

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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<400> 332
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1          5          10          15

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          20          25          30

<210> 333
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<222> (25)..(25)
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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Ala Trp Lys Val Glu Gly Gly
20 25 30

<210> 335
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<223> Aib

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 335

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Lys	Trp	Val	Val	Glu	Gly	Gly
			20				25					30	

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<211> 30

<212> PRT

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<222> (11)..(11)

<223> alpha-Me-Ser

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<223> Aib

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<222> (25)..(25)

<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 336

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

<210> 337

<211> 30

<212> PRT

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<222> (11)..(11)

<223> alpha-Me-Ser

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

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<223> Aib

<220>

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<222> (26)..(26)

<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Palmitate)

<400> 337

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Trp	Lys	Val	Glu	Gly	Gly
			20					25					30

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<223> Aib

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Myristoyl)

<400> 338

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5				10					15		

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Lys	Trp	Val	Val	Glu	Gly	Gly
			20					25					30

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 1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
 20 25 30

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<400> 340
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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Lys Trp Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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1          5          10          15

Glu Ala Ala Xaa Glu Phe Ile Lys Phe Val Val Glu Gly Gly
          20          25          30

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1          5          10          15

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Glu Ala Ala Xaa Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Lys Phe Val Val Glu Gly Gly
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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<400> 350
His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Lys Phe Leu Glu Gly
1 5 10 15

Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

<210> 351
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<400> 351

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

Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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

Glu	Ala	Ala	Glu	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
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20 25 30

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Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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<400> 367

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

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Stearoyl)

<400> 368

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

Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Glu Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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20 25 30

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<400> 380

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Gly
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Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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1 5 10 15

Glu Ala Ala Xaa Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<211> 30
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<220>

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<222> (11)..(11)

<223> alpha-Me-Ser

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<400> 384

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Gly
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Glu	Ala	Ala	Xaa	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
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<223> alpha-Me-Phe

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<222> (11)..(11)

<223> alpha-Me-Ser

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<223> Lys(Epsilon-gammaGlu-Lauroyl)

<220>

<221> MOD_RES

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<223> alpha-Me-Lys

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<223> Lys(Epsilon-gammaGlu-Lauroyl)

<400> 385

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-gammaGlu-Myristoyl)

<400> 386

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<400> 387

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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20 25 30

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1 5 10 15

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20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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<223> alpha-Me-Lys

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<222> (25)..(25)

<223> Lys(Epsilon-gammaGlu-Stearoyl)

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
 20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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1          5          10          15

Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<400> 403

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Stearoyl)

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<223> alpha-Me-Lys

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<400> 404

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

Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<222> (11)..(11)

<223> alpha-Me-Ser

<220>

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<222> (13)..(13)

<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<223> alpha-Me-Phe

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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<220>

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<223> alpha-Me-Lys

<220>

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<222> (22)..(22)

<223> alpha-Me-Phe

<220>

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<222> (25)..(25)

<223> Lys(Epsilon-Palmitoyl)

<400> 433

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> alpha-Me-Phe

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<221> MOD_RES

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<223> alpha-Me-Ser

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<223> Lys(Epsilon-Stearoyl)

<220>

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<222> (25)..(25)

<223> Lys(Epsilon-Stearoyl)

<400> 434

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-Laurate)

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<223> alpha-Me-Phe

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<222> (25)..(25)

<223> Lys(Epsilon-Laurate)

<400> 435

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> alpha-Me-Phe

<220>

<221> MOD_RES

<222> (25)..(25)

<223> Lys(Epsilon-Myristate)

<400> 436

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

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<400> 437
 His Xaa Glu Gly Ser Phe Thr Ser Asp Val Ser Ser Lys Leu Glu Gly
 1 5 10 15

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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Lys Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

<210> 441
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1 5 10 15

Glu Lys Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Lys Phe Ile Lys Phe Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20          25          30

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Glu Lys Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Lys Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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<221> MOD_RES

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<223> alpha-Me-Lys

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<222> (24)..(24)

<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

<400> 447

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Lys	Leu	Glu	Lys
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

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<212> PRT

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1 5 10 15

Lys Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
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 1 5 10 15

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 20 25 30

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<400> 450
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1          5          10          15

Glu Ala Ala Lys Lys Phe Ile Lys Phe Val Val Glu Gly Gly
          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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Lys Ala Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
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1 5 10 15

Glu Lys Ala Lys Glu Phe Ile Lys Phe Val Val Glu Gly Gly
20 25 30

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<400> 454

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
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Glu	Ala	Ala	Lys	Lys	Phe	Ile	Lys	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

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<211> 30

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 1 5 10 15

 Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
 20 25 30

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Lys Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Lys Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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<210> 458
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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Lys	Ser	Ser	Tyr	Leu	Glu	Gly
1				5					10				15		

Glu	Ala	Ala	Lys	Lys	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

<400> 459

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Lys
1				5				10					15		

Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

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His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5				10					15		

Lys	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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<400> 461

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Lys	Tyr	Leu	Glu	Gly
1				5				10					15		

Glu	Lys	Ala	Lys	Glu	Phe	Ile	Ala	Lys	Val	Val	Glu	Gly	Gly
			20					25					30

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Glu Ala Ala Lys Lys Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Lys Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Lys Phe Ile Ala Lys Val Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
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Glu Lys Ala Lys Glu Phe Ile Ala Lys Val Val Glu Gly Gly
          20          25          30

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          20          25          30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
          20          25          30

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1          5          10          15

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1 5 10 15

Glu Ala Ala Lys Lys Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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 1 5 10 15

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 20 25 30

 <210> 476
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Lys Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

<210> 477
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1 5 10 15

Glu Lys Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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1				5					10					15	

Glu	Ala	Ala	Lys	Lys	Phe	Ile	Ala	Phe	Lys	Val	Glu	Gly	Gly
			20					25					30

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1 5 10 15

Glu Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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 1 5 10 15

Lys Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
 20 25 30

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Glu Lys Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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1 5 10 15

Glu Ala Ala Lys Lys Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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Glu Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

<210> 484
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<213> Artificial Sequence

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Lys Ala Ala Lys Glu Phe Ile Ala Phe Lys Val Glu Gly Gly
20 25 30

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<223> Lys(Epsilon-(PEG)2-(PEG)2-gammaGlu-Lauroyl)

<400> 485

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Lys	Glu	Gly
1				5				10					15		

Glu	Lys	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Lys	Val	Glu	Gly	Gly
		20					25					30	

<210> 486

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Glu Ala Ala Lys Lys Phe Ile Ala Phe Lys Val Glu Gly Gly
          20          25          30

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<222> (18)..(18)

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<222> (25)..(25)

<223> /replace="lipid modified Lys"

<220>

<221> VARIANT

<222> (26)..(26)

<223> /replace="lipid modified Lys"

<400> 487

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Glu	Gly	Gly
			20					25					30

<210> 488

<211> 30

<212> PRT

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<220>

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<223> Aib

<400> 488
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1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
20 25 30

<210> 489
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polypeptide

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<223> alpha-Me-Lys

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<223> Lys(Epsilon-Palmitoyl)

<400> 489

His	Xaa	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Phe	Leu	Glu	Gly
1				5					10					15	

Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Phe	Val	Val	Lys	Gly	Gly	Lys
			20					25					30	

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<223> Lys(Epsilon-gammaGlu-palmitoyl)

<400> 490

His	Ala	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
1				5					10					15	

Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Arg	Gly	Arg	Gly
			20					25					30	

<210> 491

<211> 31

<212> PRT

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<223> Aib

<220>

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<400> 491

His	Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
1				5					10					15	

Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu	Val	Arg	Gly	Arg	Gly
			20					25					30	

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<222> (1)..(30)

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for variant positions"

<220>

<221> source

<223> /note="See specification as filed for detailed description of
substitutions and preferred embodiments"

<400> 492

His	Ala	Glu	Gly	Ser	Phe	Thr	Ser	Asp	Val	Ser	Ser	Tyr	Leu	Glu	Gly
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Glu	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Val	Val	Lys	Gly	Gly
			20					25					30