

PEP NO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
1		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	L	S	I	S	CN
2		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	CN
3		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
4		R	G	D	G	E	V	G	V	R	Q	A	P	F	P	L	S	I	S	CN
5		R	G	D	G	E	V	G	V	R	Q	A	P	F	P	L	S	I	S	C
6		R	G	D	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
7		R	G	D	G	E	V	G	V	R	Q	A	P	Y	P	S	R	A	S	C
8		R	G	D	G	E	V	G	V	R	Q	A	P	Y	L	S	R	A	F	C
9		D	G	D	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
10	RG	D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
11		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{c-amid-C}
12		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{c-amid-dC}}
13		{dD}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
14		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{dC}
15		{dD}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
16		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{c-amid-C}
17		{n-acet-dD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{dR}	{dA}	{dS}	{c-amid-dC}}

FIG. 1A

18		{dD}	S	Y	G	E	V	G	V	R	Q	A	P	F	{dP}	S	R	A	S	C
19		{htt-cyclic-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
20		{n-peg12-{dSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{dR}	{dA}	{dS}	{c-amid-{dC}}
21		{n-peg40k-{dSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{dR}	{dA}	{dS}	{c-amid-{dC}}
22		{n-acet-{dSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{dR}	{dA}	{dS}	{c-amid-{f-peg40k-{dC}}}
23		{n-acet-{dSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{{f-peg40k-dboq}-azide-k}}			
24		{n-acet-{dSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{f-pal-K}	{dA}	{dS}	{c-amid-{dC}}
25		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	{c-amid-C}
26		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	C{c-amid-N}
27		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	A	R	A	S	C{c-amid-N}
28		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	V	S	C{c-amid-N}
29		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	A	C{c-amid-N}
30		{n-acet-D}	S	Y	G	E	V	G	V	K	Q	A	P	F	P	S	R	A	S	C{c-amid-N}
31		{n-acet-D}	S	Y	G	E	V	G	V	R	N	A	P	F	P	S	R	A	S	C{c-amid-N}
32		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	V	P	F	P	S	R	A	S	C{c-amid-N}

FIG. 1A
CONTINUED

33		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	A	R	V	S	C{c-amid-N}
34		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	A	R	V	A	C{c-amid-N}
35		{n-acet-D}	S	Y	G	E	V	G	V	K	Q	A	P	F	P	A	R	A	S	C{c-amid-N}
36		{n-acet-D}	S	Y	G	E	V	G	V	K	Q	A	P	F	P	A	R	V	A	C{c-amid-N}
37		{n-acet-D}	S	Y	G	E	V	G	V	K	Q	A	P	F	P	A	K	V	A	{c-amid-C}
38		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{dK}	A	S	{c-amid-C}
39		{n-acet-{dD}}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{dK}	A	S	{c-amid-C}
40		{n-acet-{dD}}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{dK}	A	S	{c-amid-{dC}}
41		{n-acet-{dD}}	S	Y	G	E	V	G	V	R	Q	A	P	F	{dP}	S	{dK}	A	S	{c-amid-{dC}}
42		{n-acet-{dBD}}	{dS} {DMT}	G	E	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{f-pal-K}	{dA}	{dS}	{c-amid-{dC}}
43				Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
44					G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
45		K	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
46		D	K	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
47		D	S	K	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
48		D	S	Y	G	K	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
49		D	S	Y	G	E	V	G	V	K	Q	A	P	F	P	S	R	A	S	C
50		D	S	Y	G	E	V	G	V	R	Q	A	K	F	P	S	R	A	S	C
51		D	S	Y	G	E	V	G	V	R	Q	A	P	K	P	S	R	A	S	C
52		D	S	Y	G	E	V	G	V	R	Q	A	P	F	K	S	R	A	S	C
53		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	K	R	A	S	C

FIG. 1A
CONTINUED

PEP NO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
54		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	C
55		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	K	S	C
56		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	K	C
57		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	K
58			S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
59		D		Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
60		D	S		G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
61		D	S	Y		E	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
62		D	S	Y	G		V	G	V	R	Q	A	P	F	P	S	R	A	S	C
63		D	S	Y	G	E	V	G	V	R	Q	A		F	P	S	R	A	S	C
64		D	S	Y	G	E	V	G	V	R	Q	A	P		P	S	R	A	S	C
65		D	S	Y	G	E	V	G	V	R	Q	A	P	F		S	R	A	S	C
66		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P		R	A	S	C

FIG. 1B

67			D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S		A	S	C
68			D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R		S	C
69			D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A		C
70			D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	
71			D	W	F	G	E	V	G	V	R	Q	A	P	F	P	L	S	I	S	CN
72						G	E	V	G	V	R	Q	A	P	F	P	L	S	I	S	C
73						G	E	V	G	V	R	Q	A	P							C
74					W	G	I	W	G		R	Q	A	P	F	P	L	S	I	S	CN
75					W	G	I	W	G		R	Q	A	P	F	P	L			S	CN
76						G	E	V	G	V	R	Q	A	P	F	P		S	I	S	C
77						G	E	V	G	V	R	Q	A	P	F	P	L		I	S	C
78						G	E	V	G	V	R	Q	A	P	F	P			I	S	C
79			D	S	Y	G	E	V	G	V	R	Q	A	P	Y	V	P	S	I	S	CN
80			D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	L	Q	G	D	CN
81						G	E	V	G	V	R	Q	A	P	F	P	L	S			C

FIG. 1B
CONTINUED

82	SC	D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	
83	SRASC	D	S	Y	G	E	V	G	V	R	Q	A	P	F	P				
84										R	Q	A	P	F	P	S	R	A	S
85					G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
86		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{r-pal-K}	A	S
87		{n-acet-{qSD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{r-ste-K}	{dA}	{dS}
88		D			G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
89				A	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
90				W	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
91				G	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
92		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
93		D	S	Y	S	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
94		D	S	Y	D	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
95		D	S	Y	A	E	V	G	V	R	Q	A	P	F	P	S	R	A	S
96		D	S	Y	G	Q	V	G	V	R	Q	A	P	F	P	S	R	A	S

FIG. 1B
CONTINUED

97			D	S	Y	G	D	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
98			D	S	Y	G	A	V	G	V	R	Q	A	P	F	P	S	R	A	S	C
99			D	S	Y	G	E	I	G	V	R	Q	A	P	F	P	S	R	A	S	C
100			D	S	Y	G	E	L	G	V	R	Q	A	P	F	P	S	R	A	S	C
101			D	S	Y	G	E	M	G	V	R	Q	A	P	F	P	S	R	A	S	C
102			D	S	Y	G	E	A	G	V	R	Q	A	P	F	P	S	R	A	S	C
103			D	S	Y	G	E	V	S	V	R	Q	A	P	F	P	S	R	A	S	C
104			D	S	Y	G	E	V	A	V	R	Q	A	P	F	P	S	R	A	S	C
105			D	S	Y	G	E	V	G	I	R	Q	A	P	F	P	S	R	A	S	C
106			D	S	Y	G	E	V	G	L	R	Q	A	P	F	P	S	R	A	S	C
107			D	S	Y	G	E	V	G	A	R	Q	A	P	F	P	S	R	A	S	C
108			D	S	Y	G	E	V	G	V	H	Q	A	P	F	P	S	R	A	S	C
109			D	S	Y	G	E	V	G	V	R	H	A	P	F	P	S	R	A	S	C
110			D	S	Y	G	E	V	G	V	R	E	A	P	F	P	S	R	A	S	C
111			D	S	Y	G	E	V	G	V	R	A	A	P	F	P	S	R	A	S	C

FIG. 1B
CONTINUED

PEP NO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
112		D	S	Y	G	E	V	G	V	R	Q	G	P	F	P	S	R	A	S	C
113		D	S	Y	G	E	V	G	V	R	Q	T	P	F	P	S	R	A	S	C
114		D	S	Y	G	E	V	G	V	R	Q	L	P	F	P	S	R	A	S	C
115		D	S	Y	G	E	V	G	V	R	Q	A	S	F	P	S	R	A	S	C
116		D	S	Y	G	E	V	G	V	R	Q	A	A	F	P	S	R	A	S	C
117		D	S	Y	G	E	V	G	V	R	Q	A	P	Y	P	S	R	A	S	C
118		D	S	Y	G	E	V	G	V	R	Q	A	P	L	P	S	R	A	S	C
119		D	S	Y	G	E	V	G	V	R	Q	A	P	I	P	S	R	A	S	C
120		D	S	Y	G	E	V	G	V	R	Q	A	P	A	P	S	R	A	S	C
121		D	S	Y	G	E	V	G	V	R	Q	A	P			S	R	A	S	C
122		D	S	Y	G	E	V	G	V	R	Q	A	P	F			R	A	S	C
123		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P			A	S	C
124		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S			S	C
125		D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R			C

FIG. 1C

126		D	S	Y	G	E	V	G	V	^	R	Q	A	P	F	P	S	R	A		
127		D	S	Y	G	E	V	G	V		R	Q	A	P				R	A	S	C
128		D	S	Y	G	E	V	G	V		R	Q	A	P	F				A	S	C
129		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P				S	C
130		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P	S				C
131		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P	S	R			
132		D	S	Y	G	E	V	G	V		R	Q	A	P					A	S	C
133		D	S	Y	G	E	V	G	V		R	Q	A	P	F					S	C
134		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P					C
135		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P	S				
136		D	S	Y	G	E	V	G	V		R	Q	A	P							C
137		D	S	Y	G	E	V	G	V		R	Q	A	P	F						
138		D	S	Y	G	E	V	G	V		R	Q	A	P	F	P					
139		K	K	Y	G	E	V	G	V		R	Q	A	P	F	P	S	R	A	S	C
140		D		Y	G	E	V	G	V	^	R	Q	A	P	F	P		R	A	S	C

FIG. 1C
CONTINUED

141		D	S	Y	G	E	V	G	V	V	R	Q	A	P							
142		D	S	Y	G	{dE}	V	G	V	V	R	Q	A	P	F	P	S	R	A	S	C
143		D	S	Y	G	E	V	G	{dV}	R	Q	Q	A	P	F	P	S	R	A	S	C
144		D	S	Y	G	E	V	G	V	V	R	Q	A	P	{dF}	P	S	R	A	S	C
145		D	S	Y	G	{βE}	V	G	V	V	R	Q	A	P	F	P	S	R	A	S	C
146		D	S	Y	G	E	V	G	V	V	R	Q	{βA}	P	F	P	S	R	A	S	C
147		D	S	Y	G	E	V	G	V	{hR}	Q	Q	A	P	F	P	S	R	A	S	C
148		D	S	Y	G	E	V	G	V	V	R	Q	A	{hP}	F	P	S	R	A	S	C
149		D	S	Y	G	E	V	G	V	V	R	Q	A	P	{hF}	P	S	R	A	S	C
150		D	S	Y	G	{βhE}	V	G	V	V	R	Q	A	P	F	P	S	R	A	S	C
151		D	S	Y	G	E	{βhV}	G	V	V	R	Q	A	P	F	P	S	R	A	S	C
152		D	S	Y	G	E	V	G	{βhV}	R	Q	Q	A	P	F	P	S	R	A	S	C
153		D	S	Y	G	E	V	G	V	V	R	{βhQ}	A	P	F	P	S	R	A	S	C
154		D	S	Y	G	E	V	G	V	V	R	Q	{βhA}	P	F	P	S	R	A	S	C
155		D	S	Y	G	E	V	G	V	V	R	Q	A	{βhP}	F	P	S	R	A	S	C

FIG. 1C
CONTINUED

156		D	S	Y	G	E	V	G	V	R	Q	A	P	{3nF}	P	S	R	A	S	C
157		{n-acet-(dD)}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{-pal-K}	{dA}	{c-amid-dS}	
158		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	CR{c-amid-R}
159	{n-acet-R}R	D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{c-amid-C}
160		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	CRRR{c-amid-R}
161	{n-acet-R}RRR	D	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	S	{c-amid-C}
162		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	{c-amid-S}	
163				{n-acet-Y}	G	E	V	G	V	R	Q	A	P	F	{c-amid-P}					
164				{n-acet-Y}	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	{c-amid-S}	

FIG. 1C
CONTINUED

PEPNO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
165		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	{c-amid-P}					
166				{n-acet-Y}	G	E	V	G	V	R	Q	A	P	F	P	S	{c-amid-R}			
167				{n-acet-Y}	G	E	V	G	V	R	Q	A	{c-amid-P}							
168		{n-acet- {dBD}}	{dS}	{dY}	G	E	V	G	V	R	Q	A	P	F	{dP}	{dS}	{dR}	{dA}	{c-amid- {dS}}	
169					{n-pal-G}	E	V	G	V	R	Q	A	{c-amid-P}							
170						{n-pal-E}	V	G	V	R	Q	A	{c-amid-P}							
171							{n-pal-V}	G	V	R	Q	A	{c-amid-P}							
172				{n-pal-Y}	G	E	V	G	V	R	Q	{c-amid-A}								
173				{n-pal-Y}	G	E	V	G	V	R	Q	A	{c-amid-P}							
174				{n-pal- {dY}}	G	E	V	G	V	R	Q	A	{c-amid-P}							
175				{n-pal-Y}	G	E	V	G	V	{nR}	Q	A	{c-amid-P}							

FIG. 1D

186		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	R	A	{c-amid-S}
187		{n-acet-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{-pal-K}	A	{c-amid-S}
188		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A	P	F	P	S	{-pal-K}	A	{c-amid-S}
189				{n-pal-Y}	G	E	V	G	V	R	Q	A	P	F	{c-amid-P}				
190				{n-acet-Y}	G	E	V	G	V	R	Q	A	P	{c-amid-F}					
191				{n-pal-Y}	G	E	V	G	V	R	Q	A	P	{c-amid-F}					
192		D	S	Y	G	E	V	D	V	R	Q	A	P	F	P	S	{-pal-K}	A	S C
193					{n-pal-G}	E	V	G	V	R	Q	A	P						
194						{n-pal-E}	V	G	V	R	Q	A	P						
195							{n-pal-V}	G	V	R	Q	A	P						
196								{n-pal-G}	V	R	Q	A	P						
197									{n-pal-V}	R	Q	A	P						
198										{n-pal-R}	Q	A	P						

FIG. 1D
CONTINUED

[illegible]FIG. 1D
CONTINUED

PEP NO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
213		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A		F	P	S	R	A	S	
214		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A	P		P	S	R	A	S	
215		{n-pal-D}	S	Y			V	G	V	R	Q	A	P	F	P	S	R	A	S	
216		{n-pal-D}	S	Y	G			G	V	R	Q	A	P	F	P	S	R	A	S	
217		{n-pal-D}	S	Y	G	E			V	R	Q	A	P	F	P	S	R	A	S	
218		{n-pal-D}	S	Y	G	E	V			R	Q	A	P	F	P	S	R	A	S	
219		{n-pal-D}	S	Y	G	E	V	G			Q	A	P	F	P	S	R	A	S	
220		{n-pal-D}	S	Y	G	E	V	G	V	R	Q			F	P	S	R	A	S	
221		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A			P	S	R	A	S	
222		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A	P			S	R	A	S	
223		{n-pal-D}	S	Y				G	V	R	Q	A	P	F	P	S	R	A	S	
224		{n-pal-D}	S	Y	G				V	R	Q	A	P	F	P	S	R	A	S	
225		{n-pal-D}	S	Y	G	E				R	Q	A	P	F	P	S	R	A	S	
226		{n-pal-D}	S	Y	G	E	V				Q	A	P	F	P	S	R	A	S	
227		{n-pal-D}	S	Y	G	E	V	G				A	P	F	P	S	R	A	S	
228		{n-pal-D}	S	Y	G	E	V	G	V				P	F	P	S	R	A	S	
229		{n-pal-D}	S	Y	G	E	V	G	V	R	Q				P	S	R	A	S	
230		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A				S	R	A	S	
231		{n-pal-D}	S	Y	G	E	V	G	V	R	Q	A	P				R	A	S	
232						{n-pal-E}	V	G	V	R	Q	A	{c-amid-P}							
233		{n-pal-D}				E	V	G	V	R	Q	A	{c-amid-P}							
234						{n-pal-E}	V	G	V	R	Q	A	P				{c-amid-P}			

FIG. 1E

235	{n-pal-D}			E	V	G	V	R	Q	A	P				{c-amid-R}		
236					{n-pal-V}	G	V	R	Q	A	{c-amid-P}						
237				{n-pal-E}		G	V	R	Q	A	{c-amid-P}						
238				{n-pal-E}	V		V	R	Q	A	{c-amid-P}						
239				{n-pal-E}	V	G	V		Q	A	{c-amid-P}						
240				{n-pal-E}	V	G	V	R		A	{c-amid-P}						
241				{n-pal-E}	V	G	V	R	Q		{c-amid-P}						
242				{n-pal-E}	V	G	V	R	Q	{c-amid-A}							
243				{n-pal-A}	V	G	V	R	Q	A	{c-amid-P}						
244				{n-pal-E}	A	G	V	R	Q	A	{c-amid-P}						
245				{n-pal-E}	V	A	V	R	Q	A	{c-amid-P}						
246				{n-pal-E}	V	G	A	R	Q	A	{c-amid-P}						
247				{n-pal-E}	V	G	V	A	Q	A	{c-amid-P}						
248				{n-pal-E}	V	G	V	R	A	A	{c-amid-P}						
249				{n-pal-E}	V	G	V	R	Q	G	{c-amid-P}						
250				{n-pal-E}	V	G	V	R	Q	A	{c-amid-A}						
251			{n-pal-G}	E	V	G	V	R									
252							{n-pal-V}	R	Q	A	P						
253			{n-pal-G}	E	V	G	V	R									
254			{n-pal-E}	G	V	G	V	R									
255			{n-pal-G}	V	E	G	V	R									
256			{n-pal-G}	E	G	V	V	R									
257			{n-pal-G}	E	V	G	V	K									
258			{n-pal-G}	E	V	G	V	D									
259			{n-pal-G}	E	V	G	V	E									

FIG. 1E
CONTINUED

PEP NO: and/or SEQ ID NO:	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀
271					{n-pal-G}	E	V	G	Q	R										
272									{n-pal-V}	R	Q	A	P							
273									{n-pal-R}	V	Q	A	P							
274									{n-pal-V}	Q	R	A	P							
275									{n-pal-V}	R	A	Q	P							
276									{n-pal-V}	R	Q	P	A							
277									{n-pal-V}	K	Q	A	P							
278									{n-pal-V}	A	Q	A	P							

FIG. 1F

279											{n-pal-V}	G	Q	A	P					
280											{n-pal-V}	P	Q	A	P					
281											{n-pal-A}	R	Q	A	P					
282											{n-pal-}	R	Q	A	P					
283											{n-pal- $\bar{\Gamma}$ }	R	Q	A	P					
284											{n-pal-L}	R	Q	A	P					
285											{n-pal-W}	R	Q	A	P					
286											{n-pal-C}	R	Q	A	P					
287											{n-pal-F}	R	Q	A	P					
288											{n-pal-Q}	R	Q	A	P					

FIG. 1F
CONTINUED

289										{n-pal-H}	R	Q	A	P						
290										{n-pal-P}	R	Q	A	P						
291		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	K	A	S
292		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	A	A	S
293		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	N	A	S
294		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	D	A	S
295		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	C	A	S
296		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	H	A	S
297		D	S	Y	G	E	V	G	V	V	R	Q	A	P	F	P	S	Y	A	S
298		D	S	Y	K	E	V	G	V	V	R	Q	A	P	F	P	S	K	A	S

FIG. 1F
CONTINUED

299		D	S	Y	A	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	
300		D	S	Y	N	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	
301		D	S	Y	D	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	
302		D	S	Y	C	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	
303		D	S	Y	H	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	
304		D	S	Y	Y	E	V	G	V	R	Q	A	P	F	P	S	K	A	S	

FIG. 1F
CONTINUED

PEP NO: and/or SEQ ID NO:	X ₂₀	X ₁₉	X ₁₈	X ₁₇	X ₁₆	X ₁₅	X ₁₄	X ₁₃	X ₁₂	X ₁₁	X ₁₀	X ₉	X ₈	X ₇	X ₆	X ₅	X ₄	X ₃	X ₂	X ₁
305		{n-pal-S}	A	R	S	P	{dF}	{dP}	{dA}	{dQ}	{dR}	{dV}	{dG}	{dV}	{dE}	{dG}	Y	S	D	
306							{n-pal-F}	P	A	Q	R	V	G	V	E	G	Y	S	D	
307					{n-pal-S}	P	F	P	A	Q	R	V	G	V	E	G	Y	S	D	
308		{n-pal-S}	A	R	S	P	F	P	A	Q	R	V	G	V	E	G				
309		{n-pal-S}	A	R	S	P	{dF}	{dP}	{dA}	{dQ}	{dR}	{dV}	{dG}	{dV}	{dE}	{dG}				
310								{n-pal-dP}}	{dA}	{dQ}	{dR}	{dV}	{dG}	{dV}	{dE}	{dG}				
311								{n-pal-dP}}	{dA}	{dQ}	{dR}	{dV}	{dG}	{dV}						
312								{n-pal-dP}}	{dA}	{dQ}	{dR}	{dV}	{dG}							
313								{n-pal- {dA}}	{dQ}	{dR}		{dV}								
314									{n-pal- {dQ}}	{dR}			{dG}	{dV}	{dE}	{dG}				
315										{n-pal- {dR}}			{dG}	{dV}	{dE}	{dG}				

FIG. 1G

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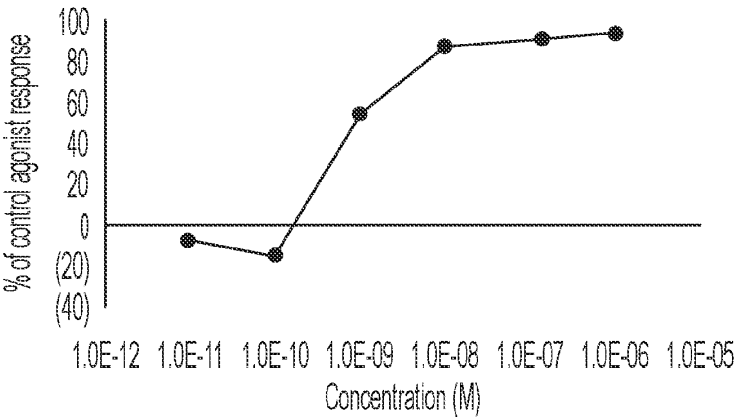


FIG. 2A

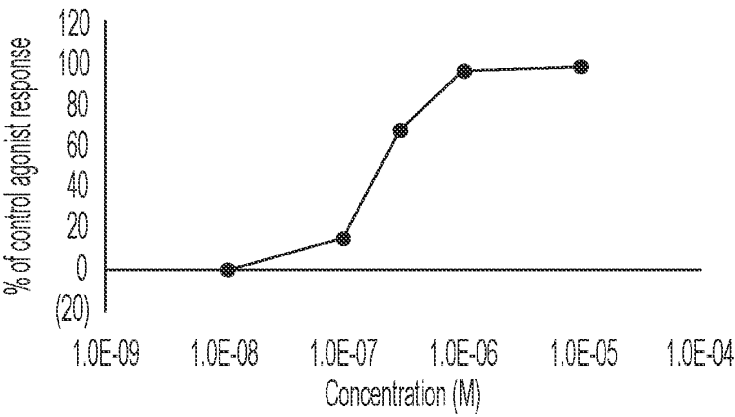


FIG. 2B

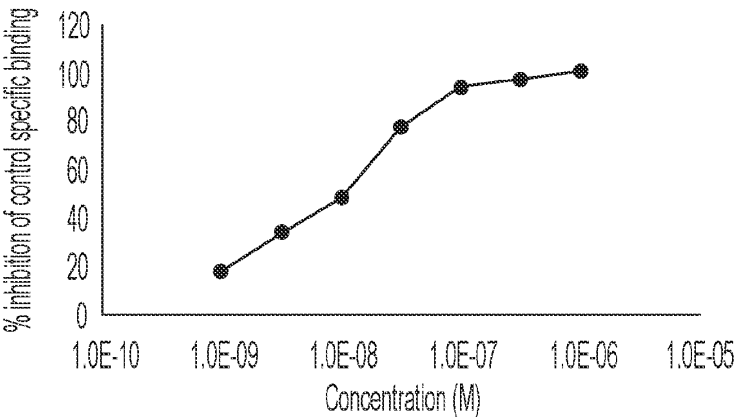
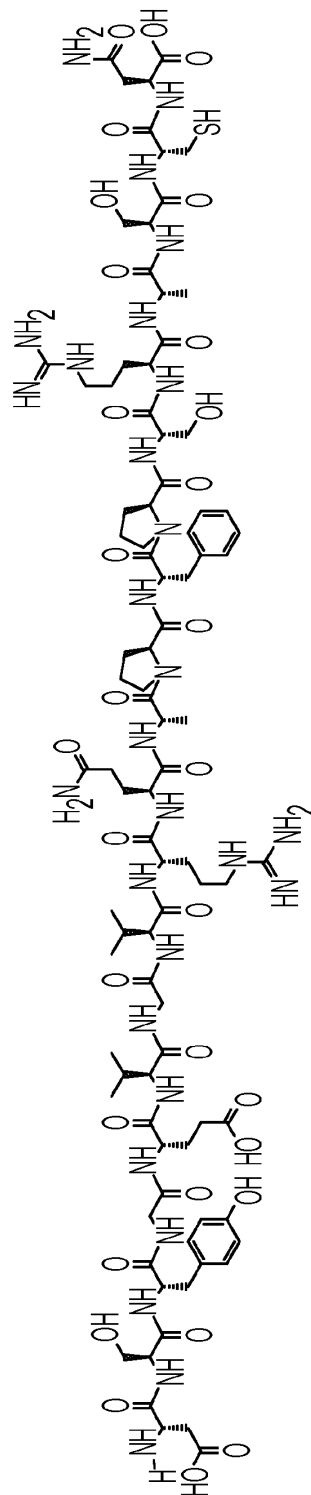
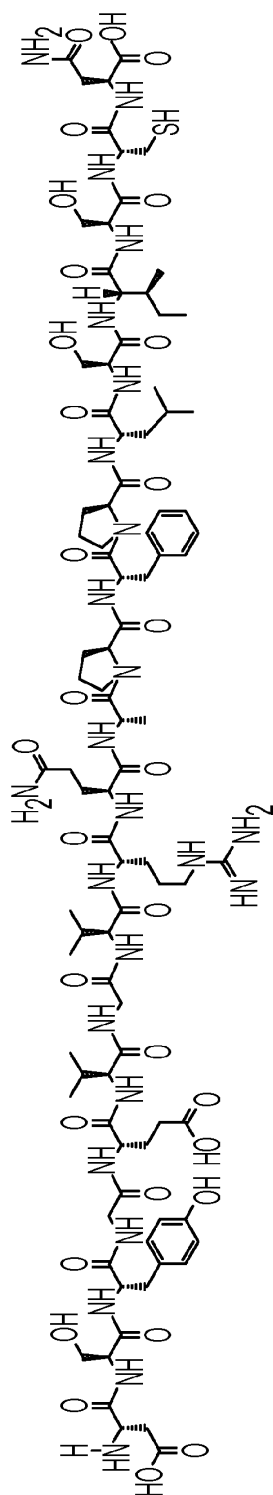


FIG. 2C



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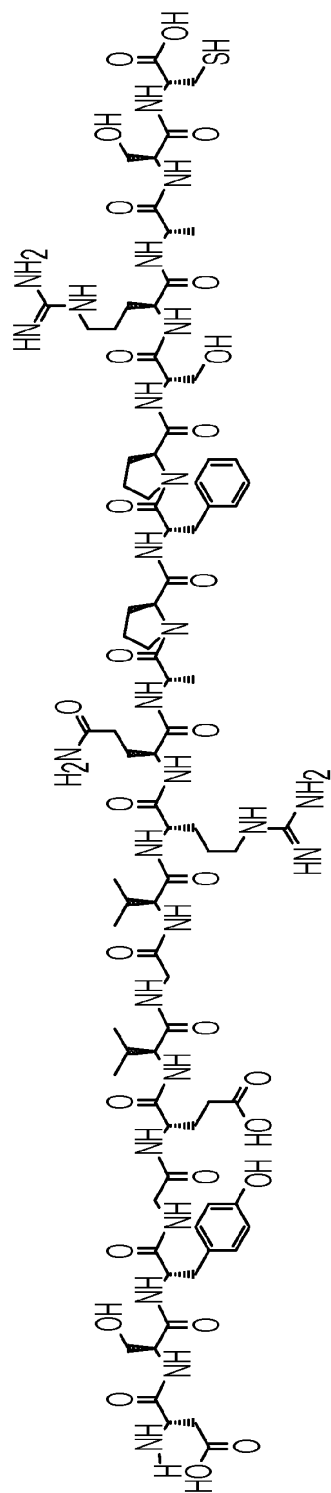


FIG. 5

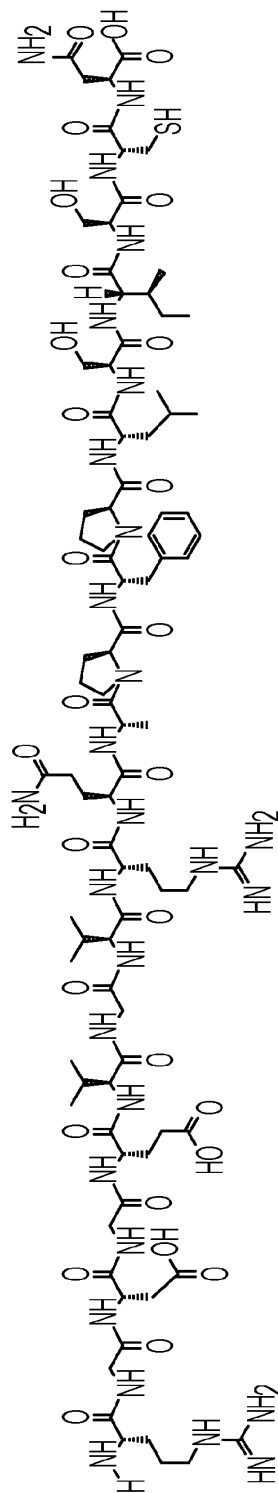
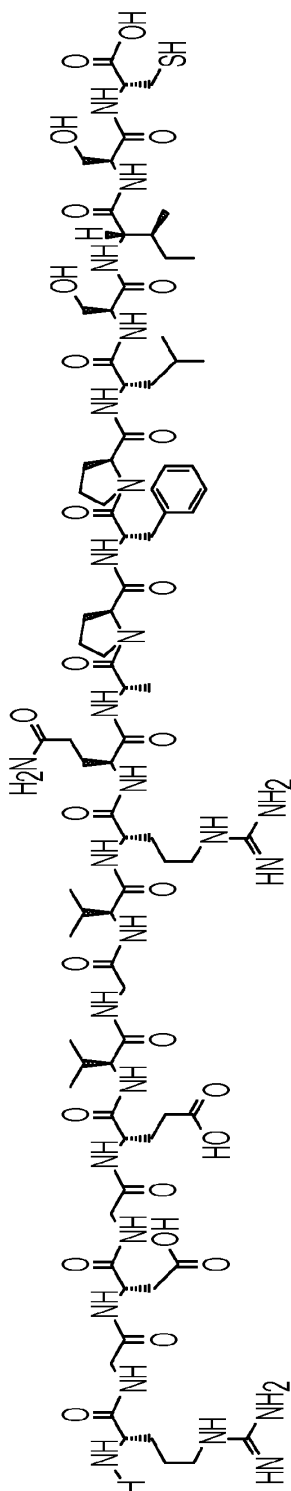


FIG. 6

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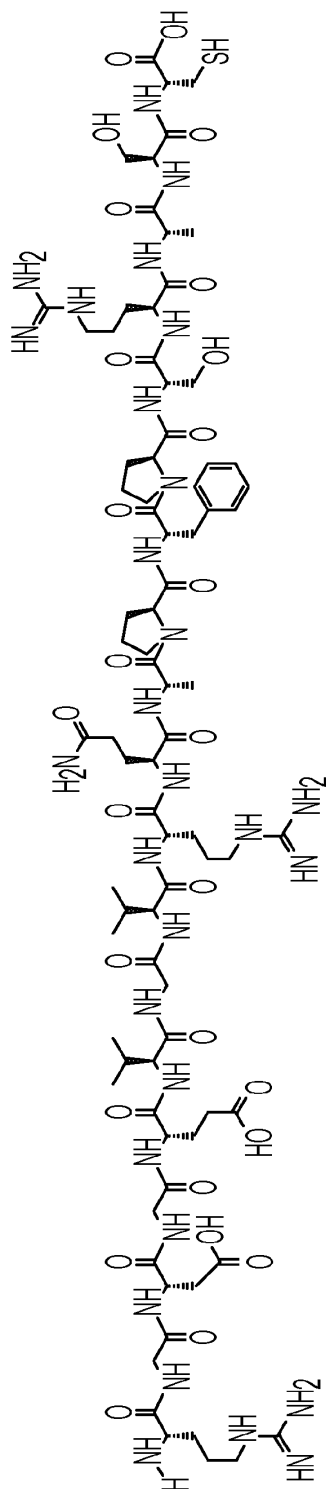


FIG. 8

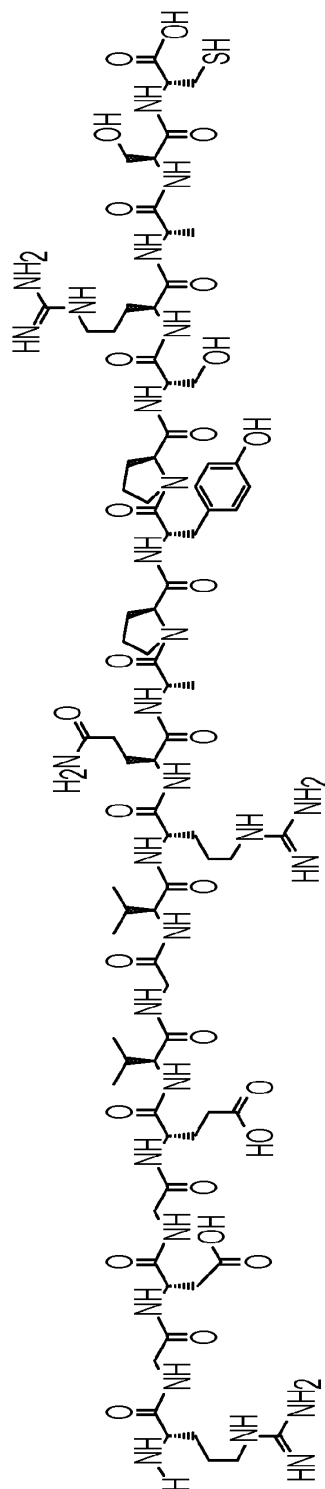
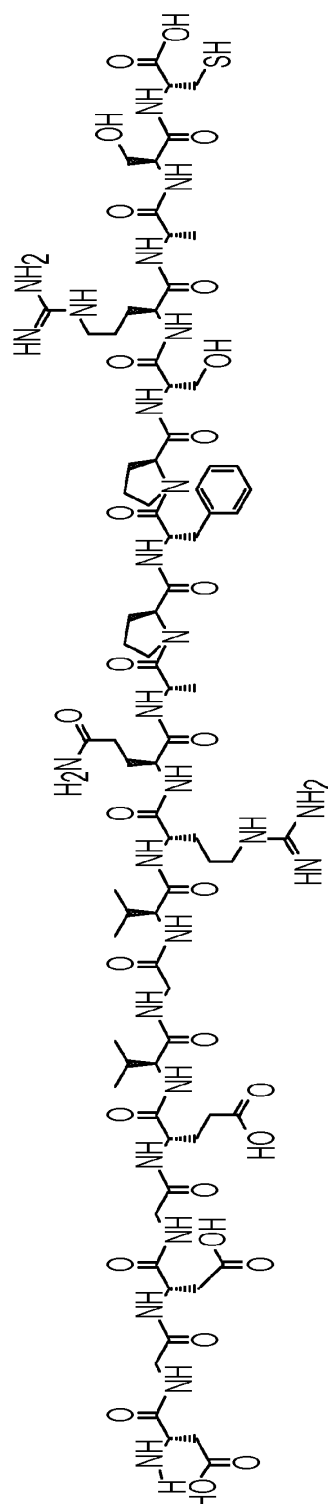
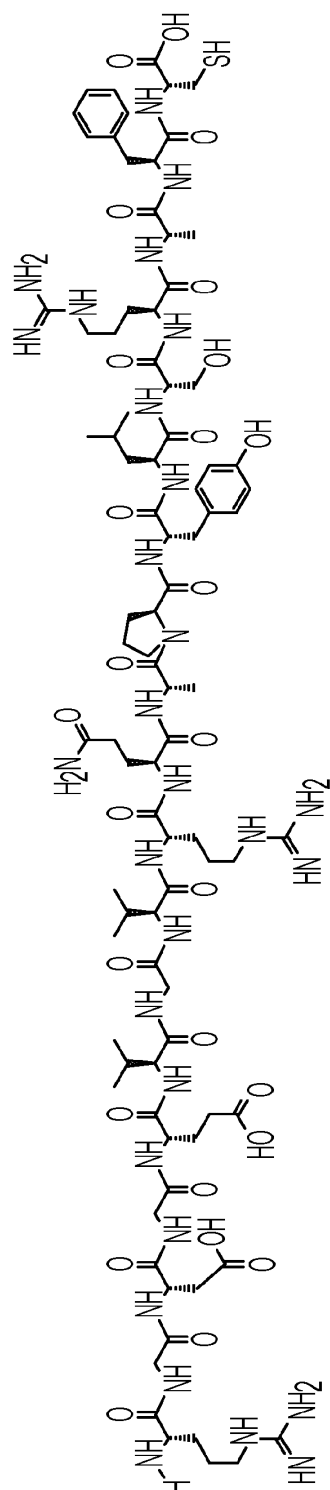
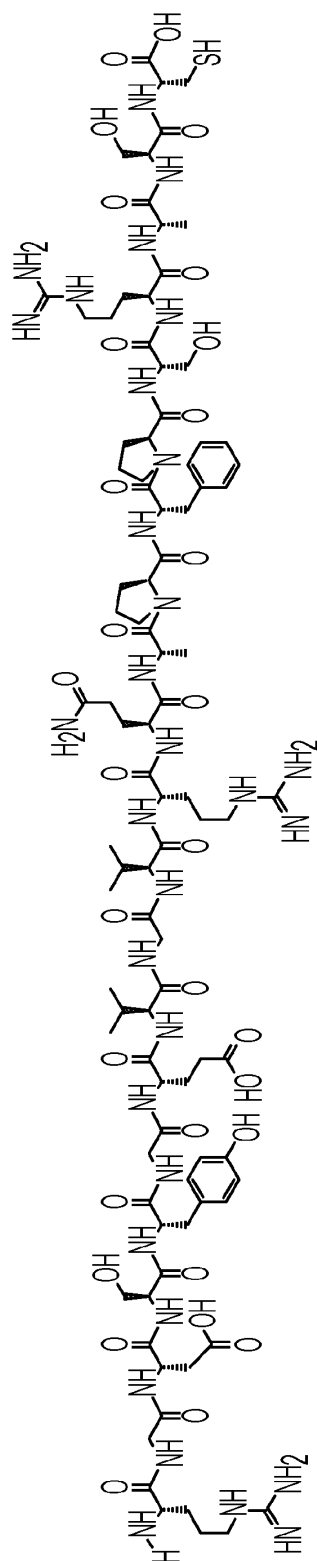


FIG. 9





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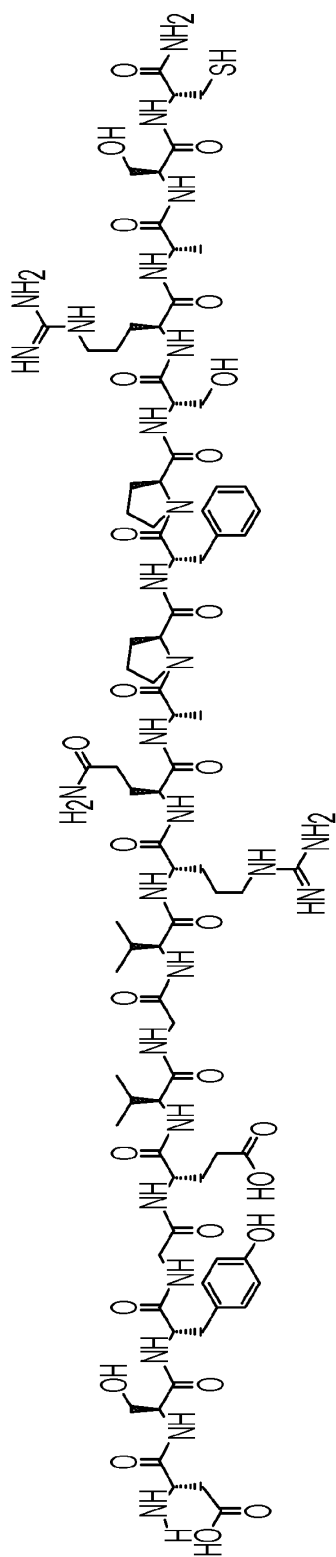


FIG. 13

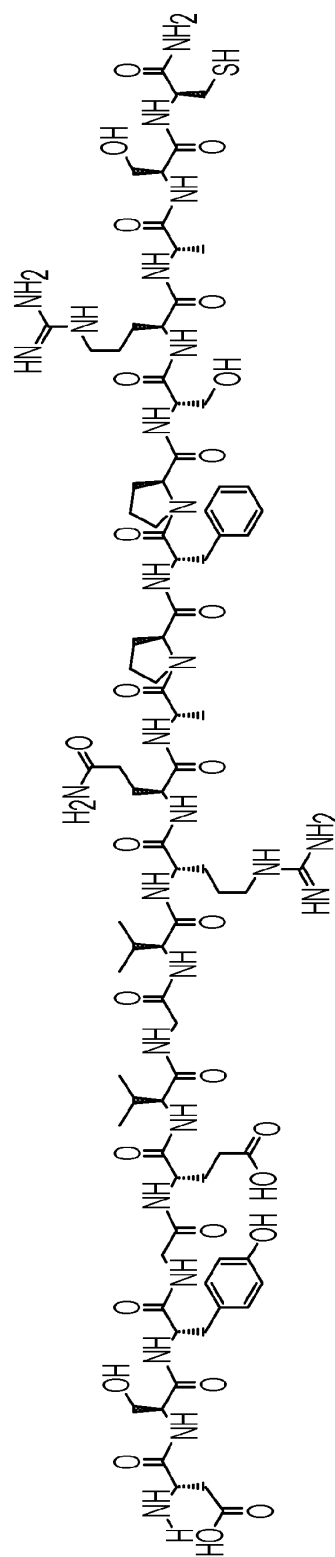
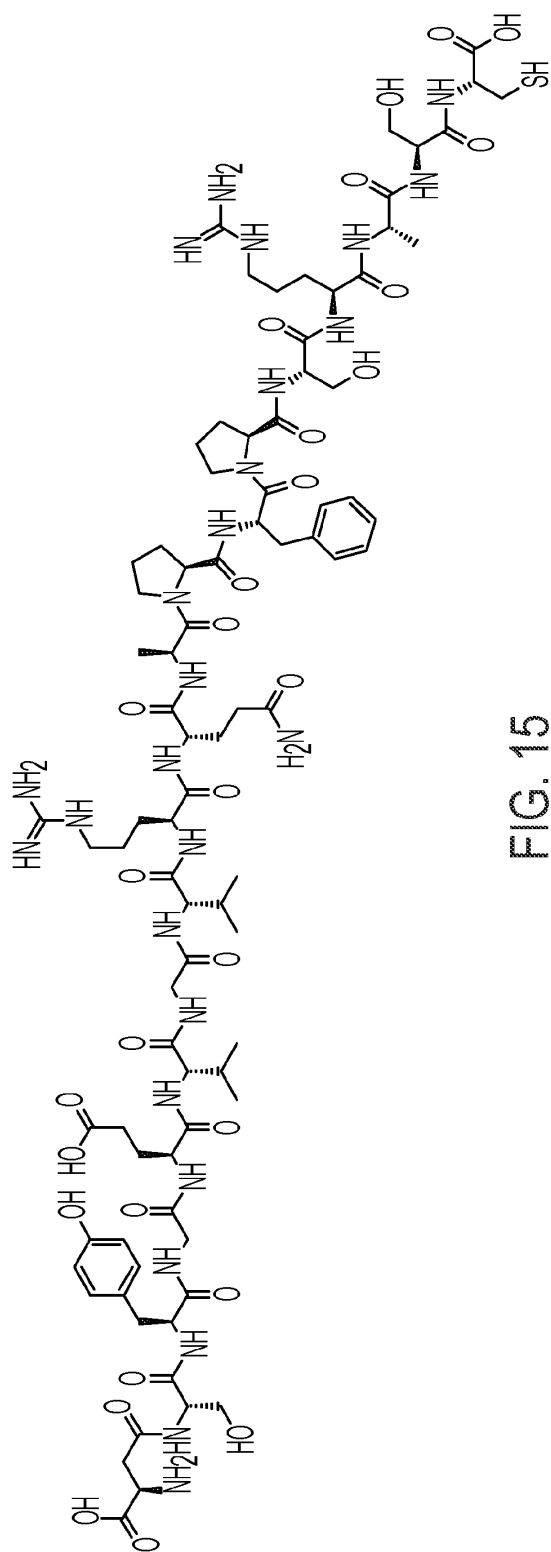
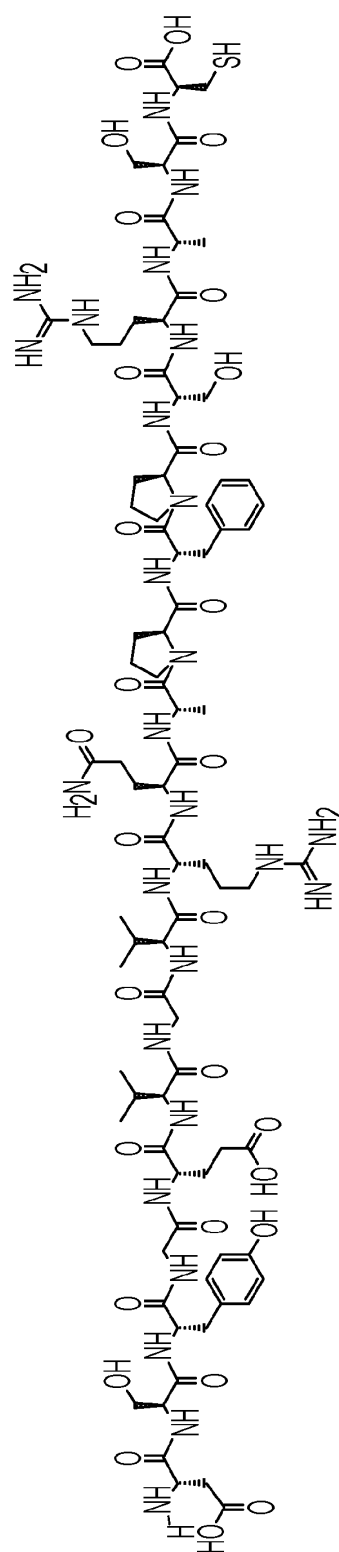


FIG. 14

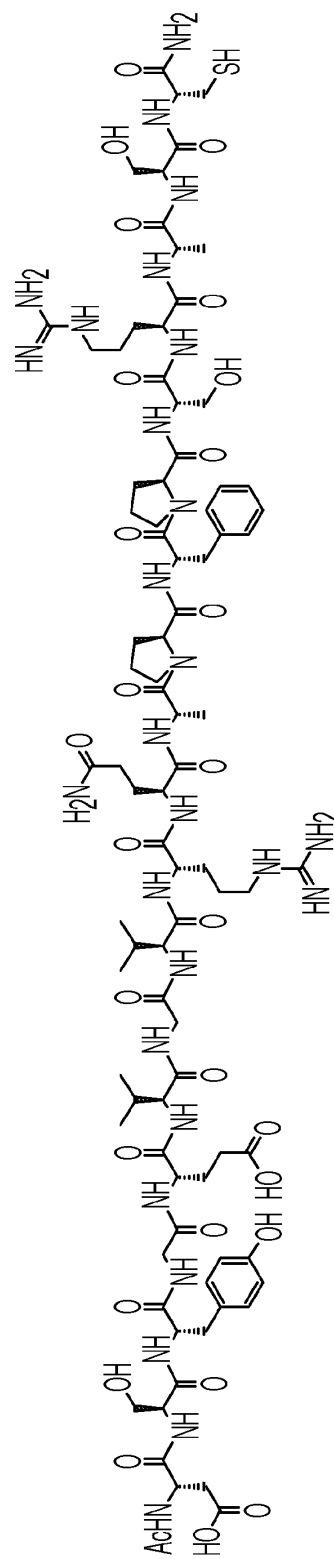
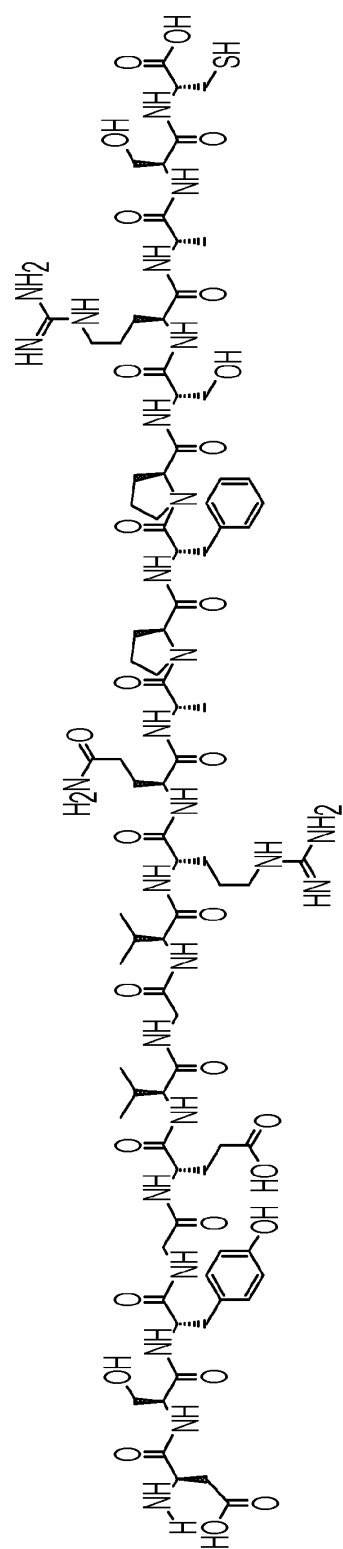
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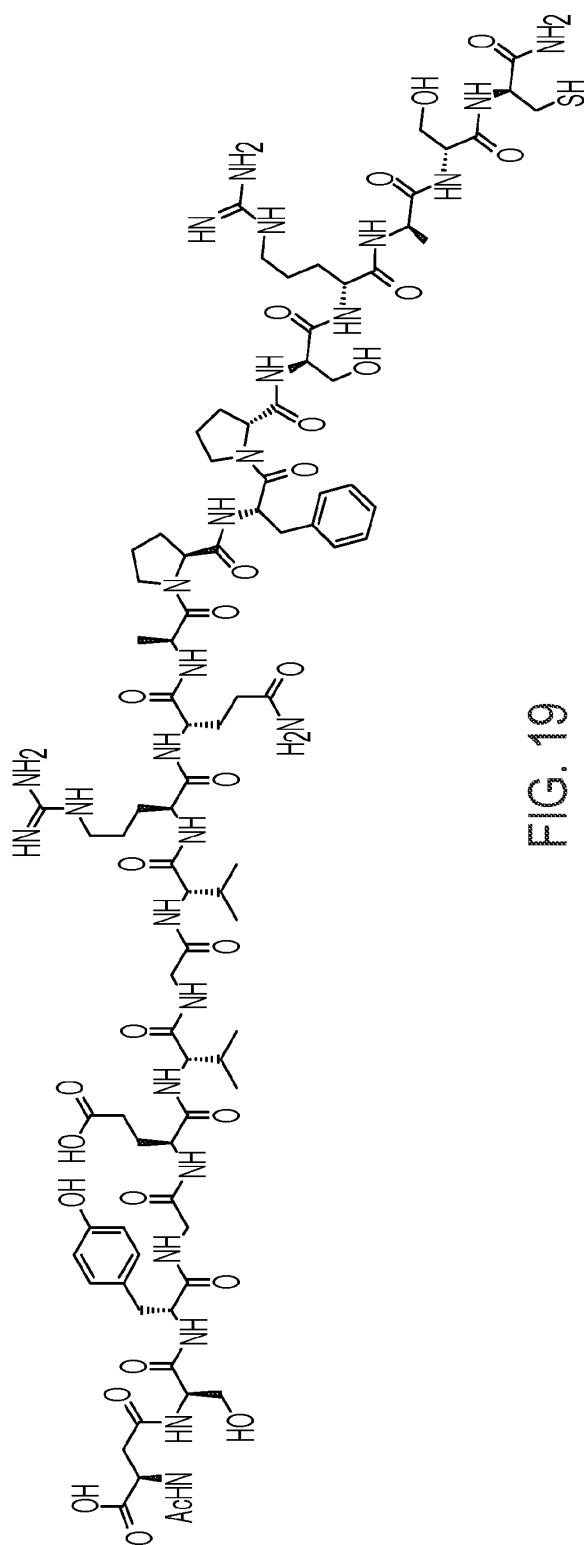
51







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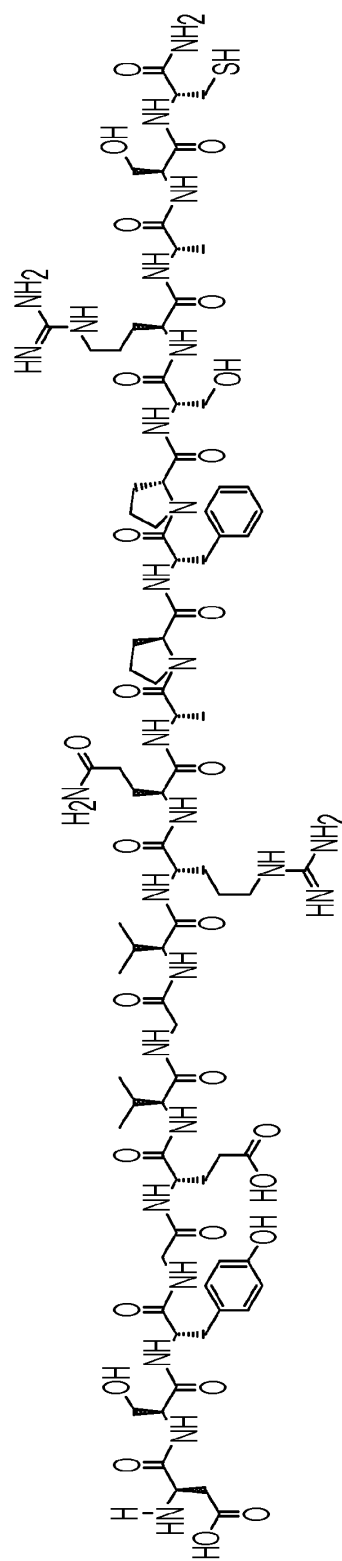


FIG. 20

FIG. 21

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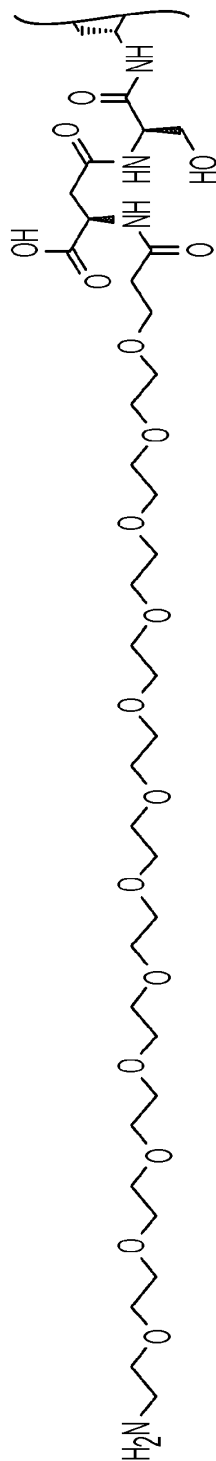
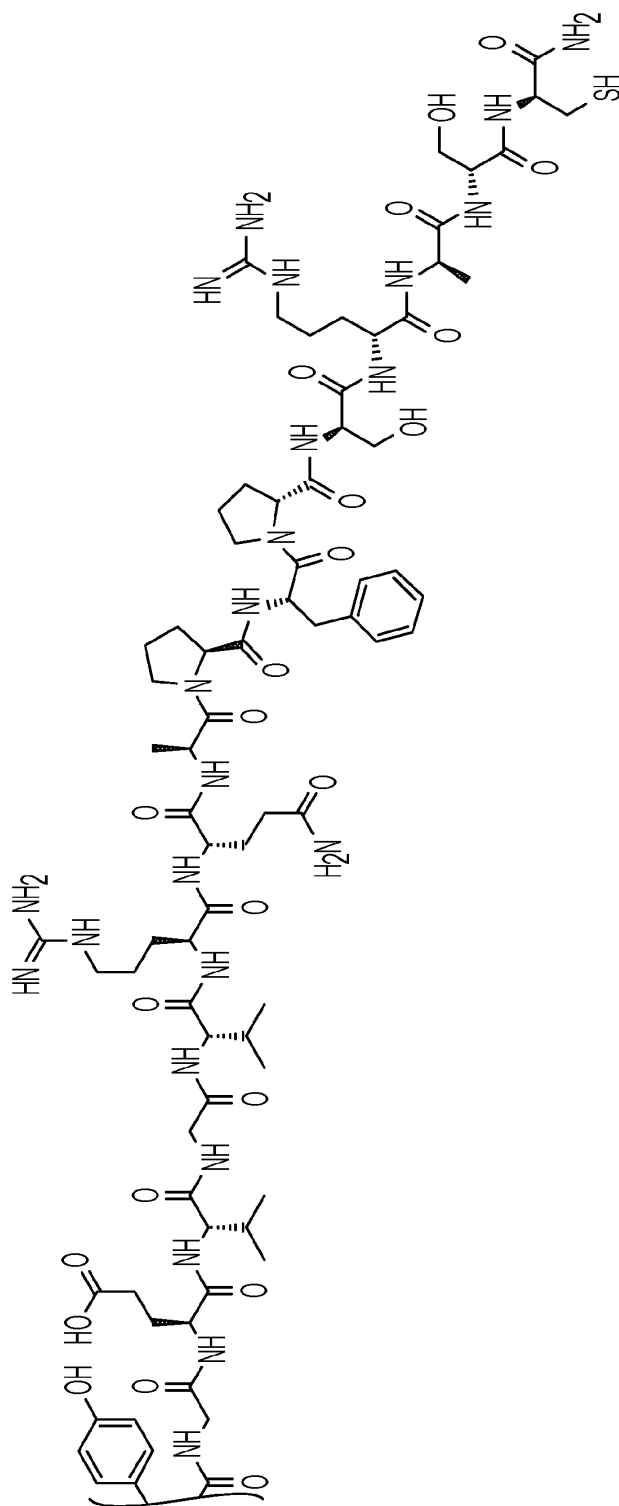


FIG. 22

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FIG. 22
CONTINUED

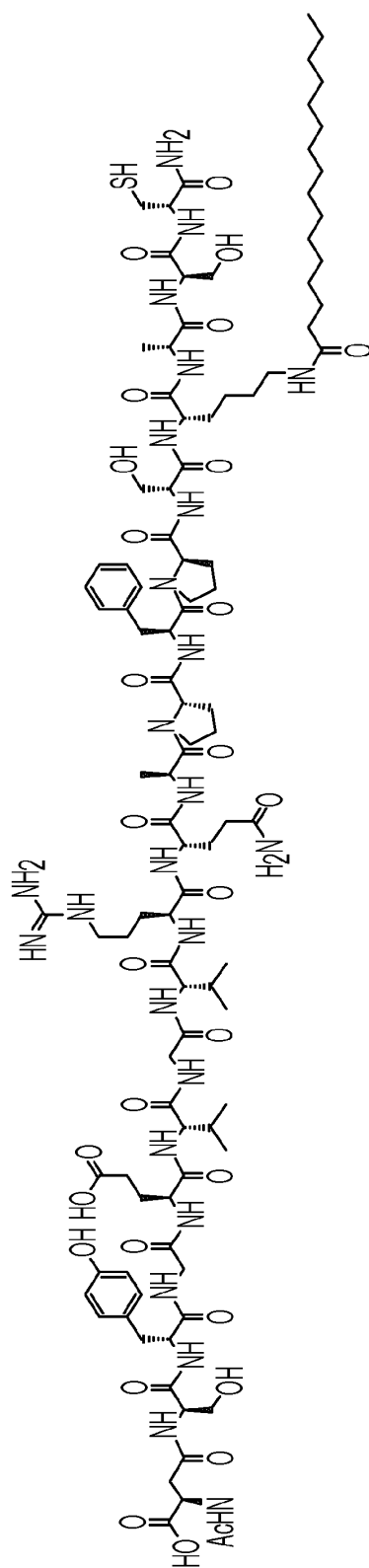


FIG. 23

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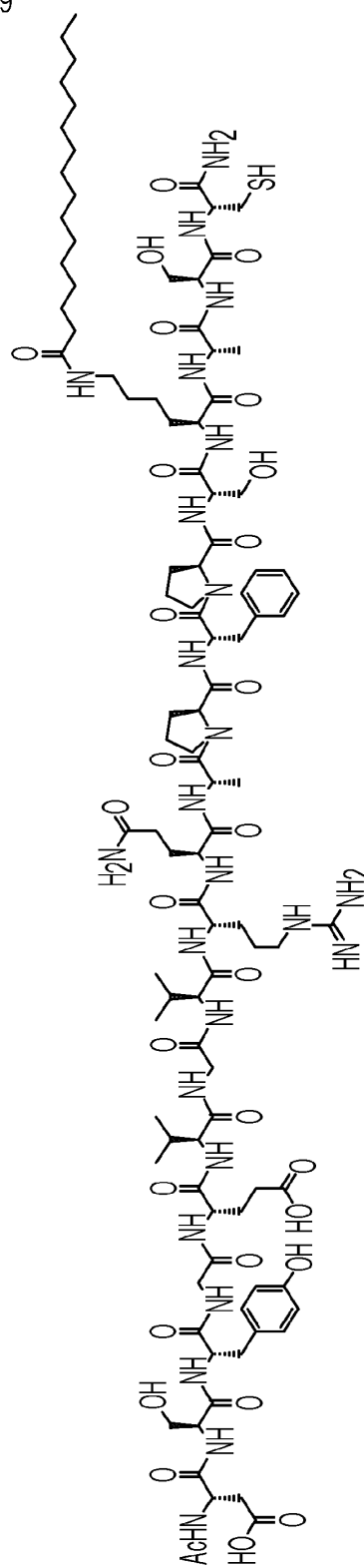
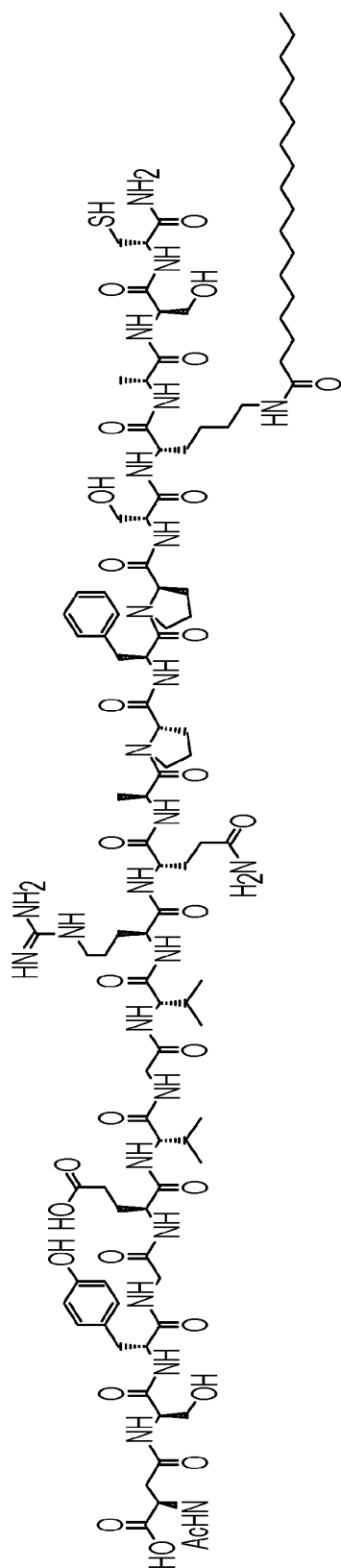


FIG. 24



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FIG. 25

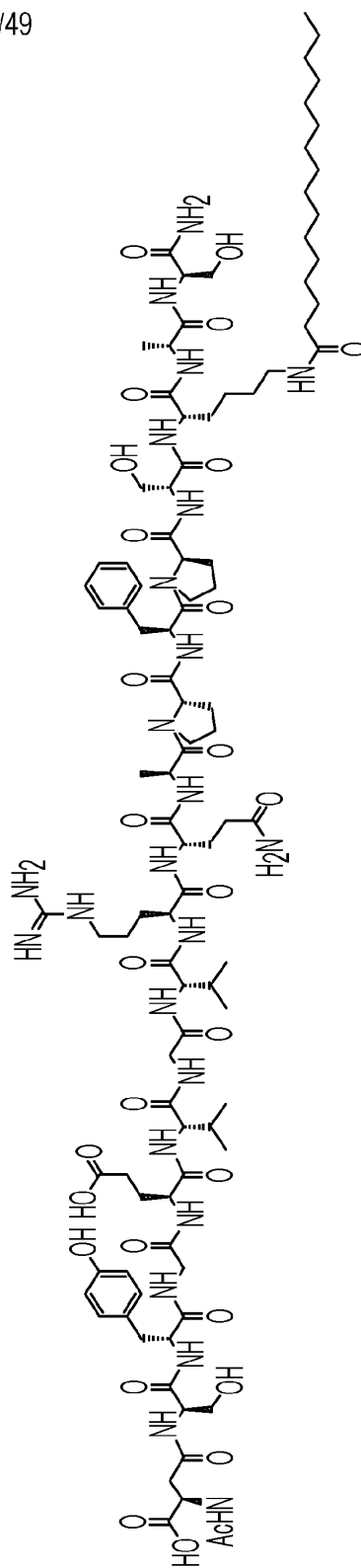


FIG. 26

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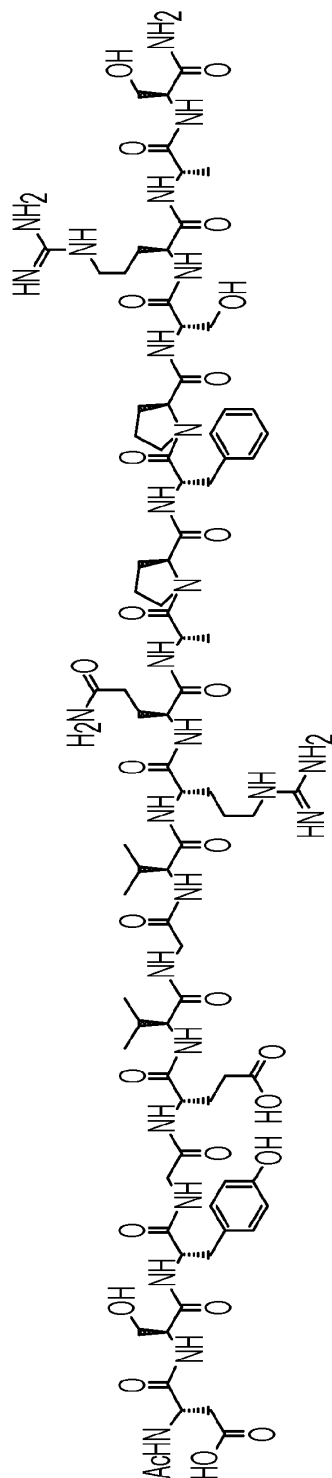


FIG. 27

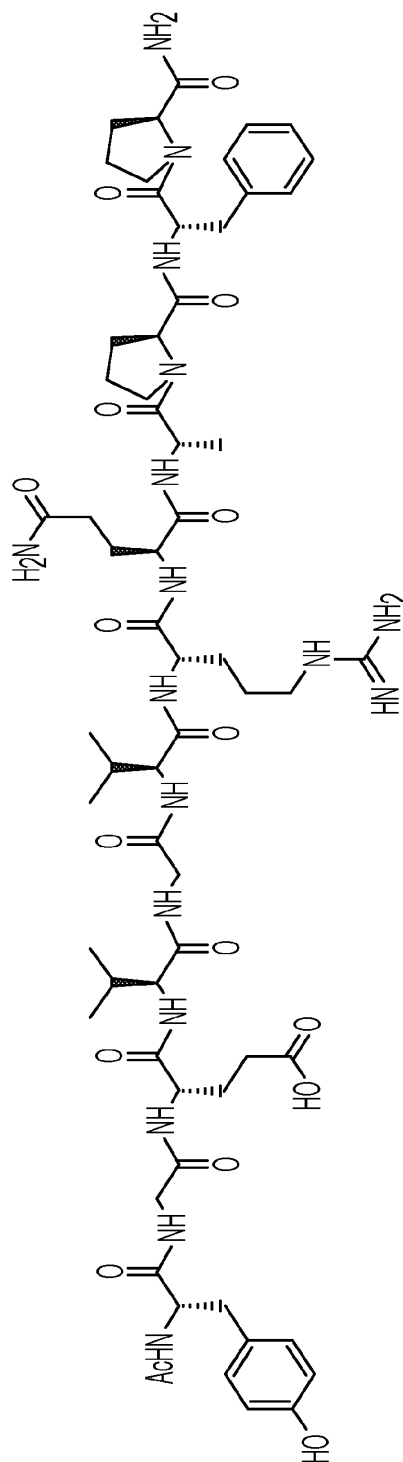
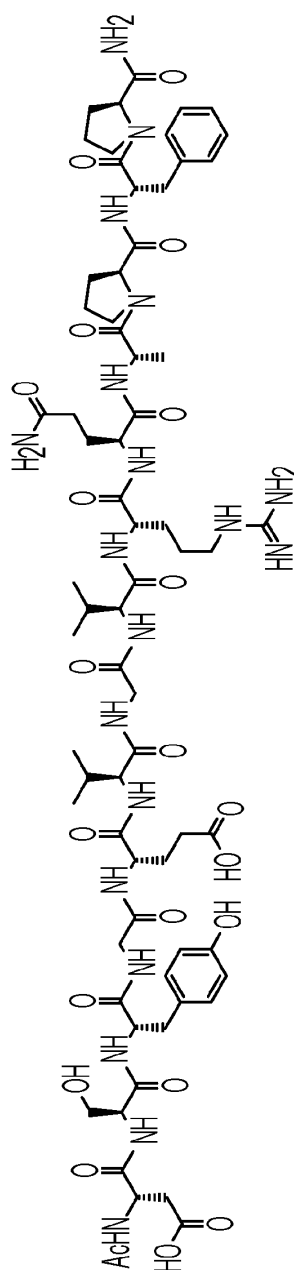
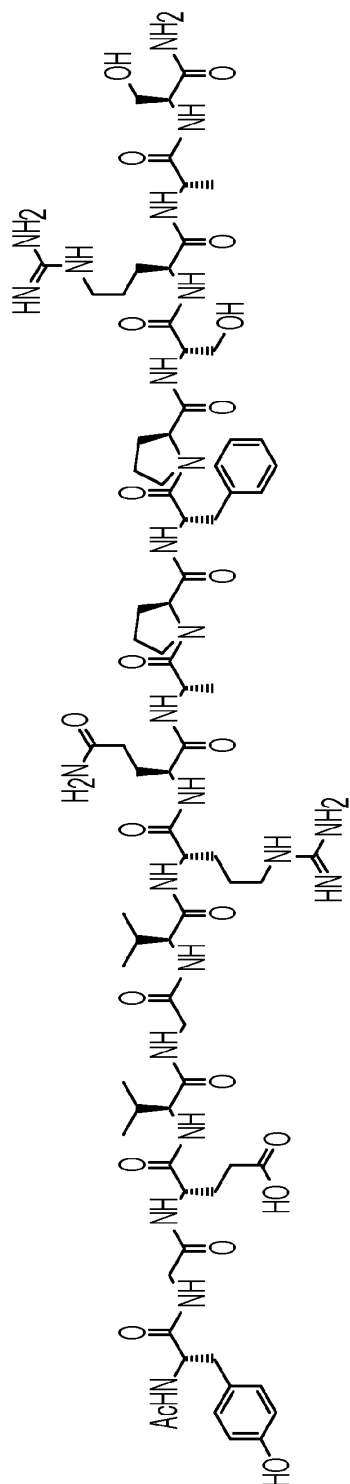


FIG. 28



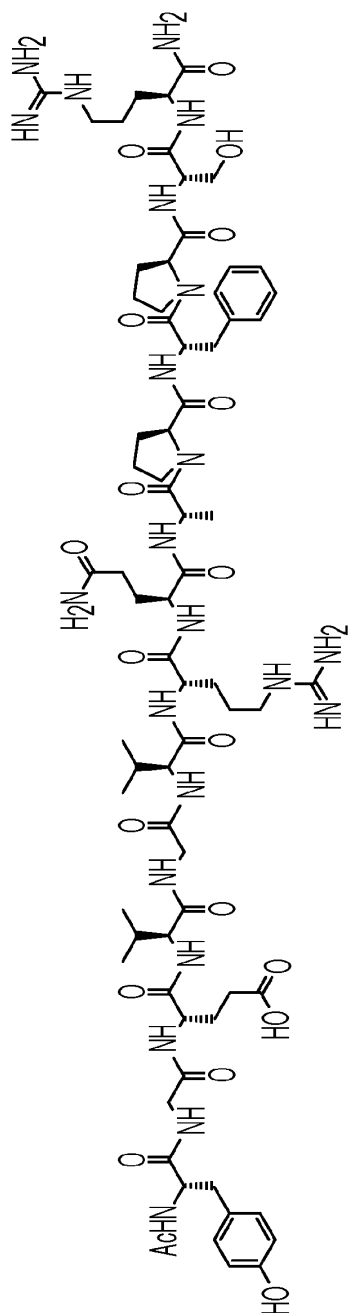


FIG. 31

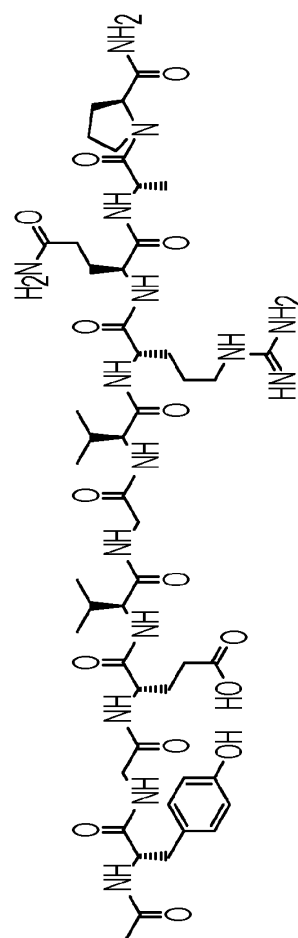


FIG. 32

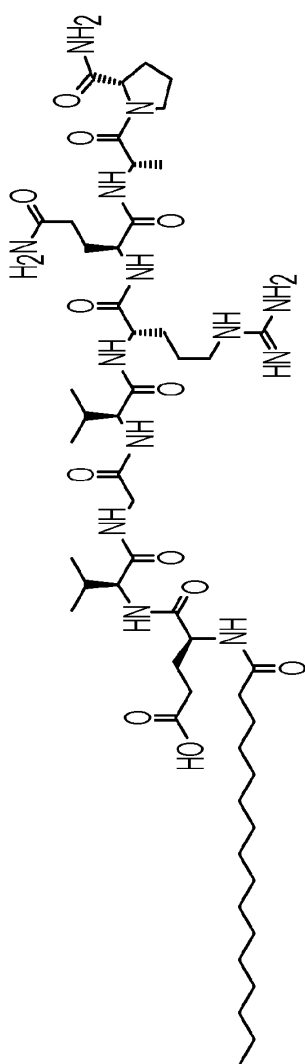


FIG. 33

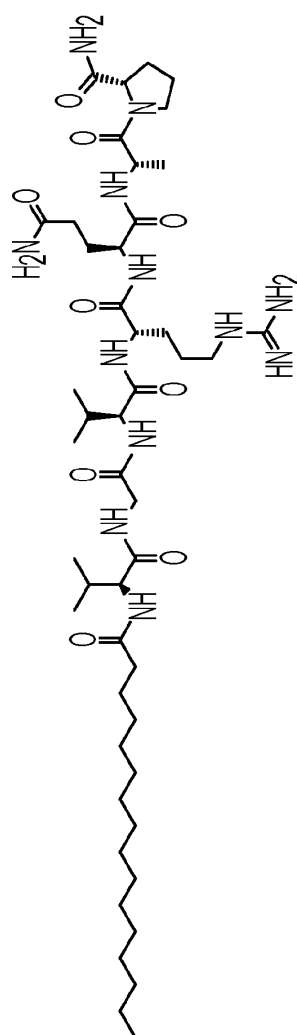


FIG. 34

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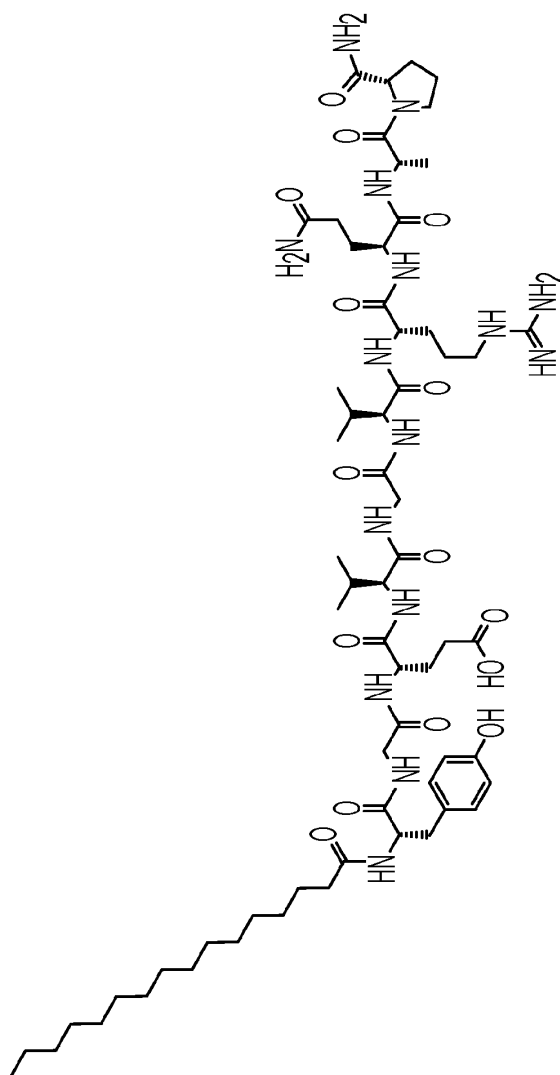


FIG. 35

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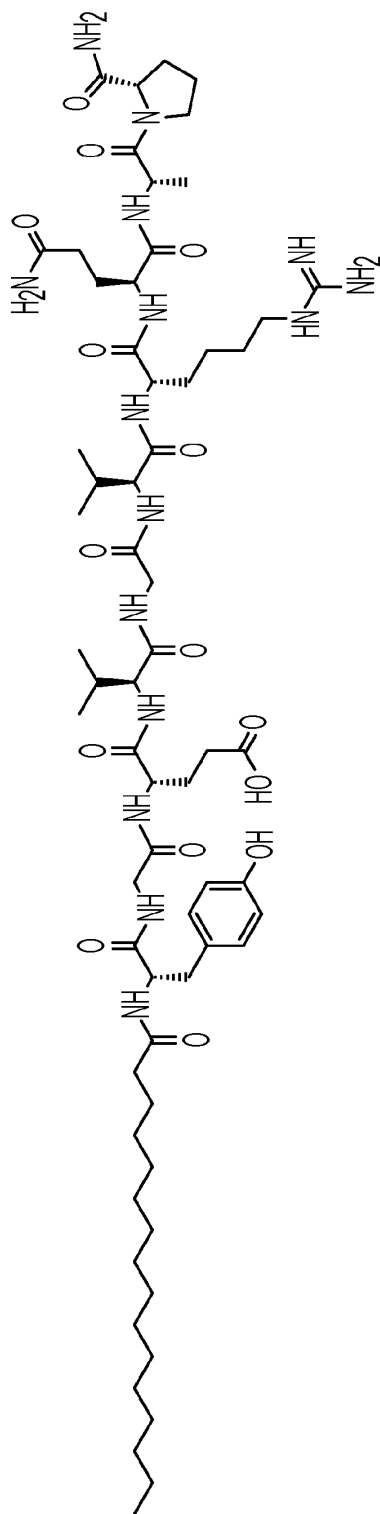


FIG. 36

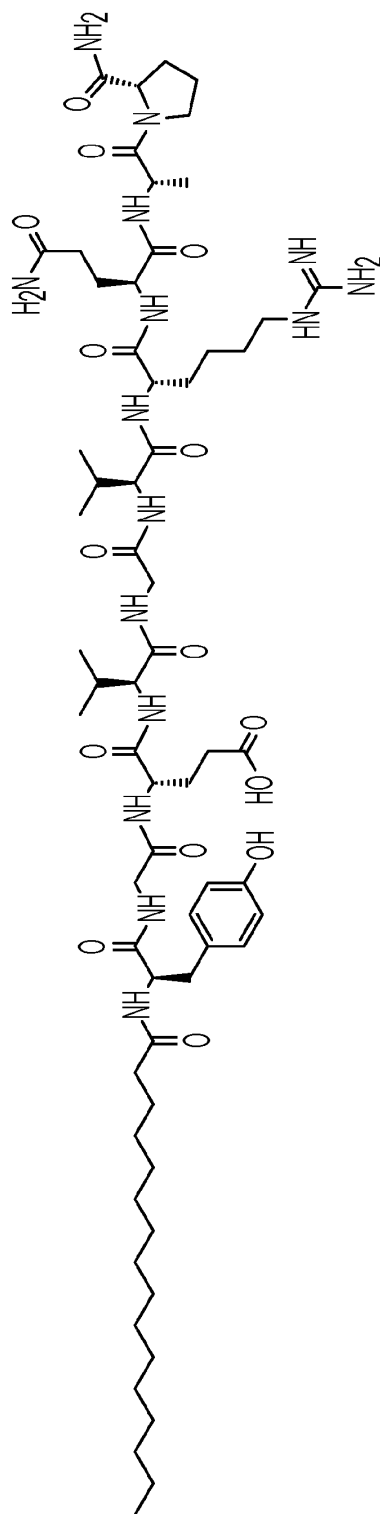


FIG. 37

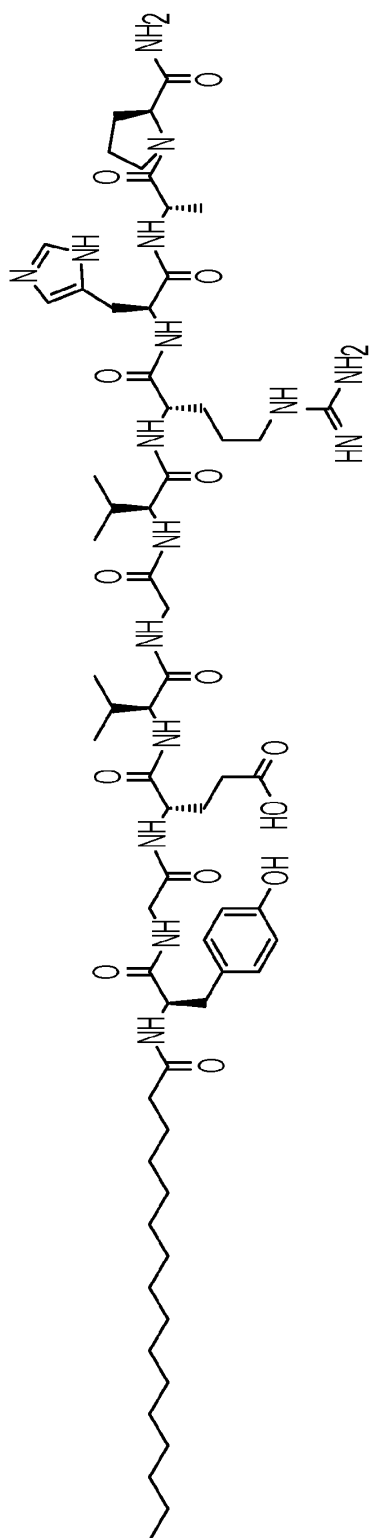
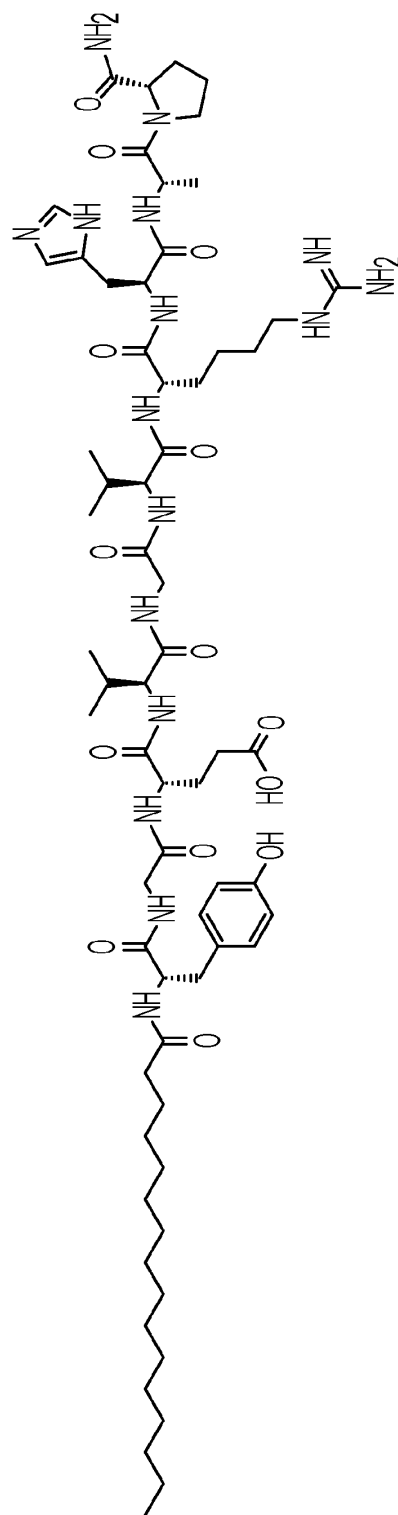


FIG. 39



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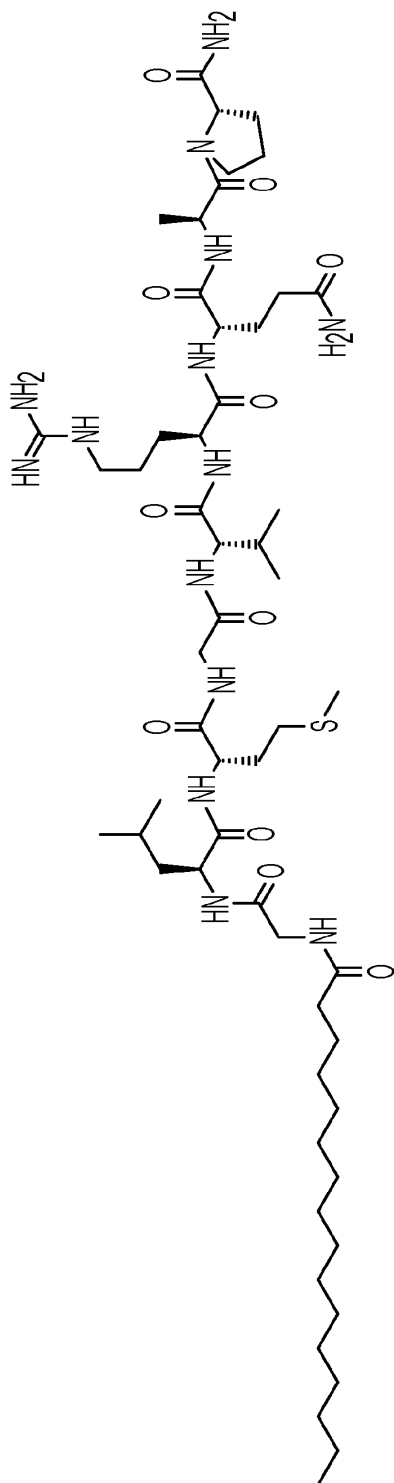


FIG. 40

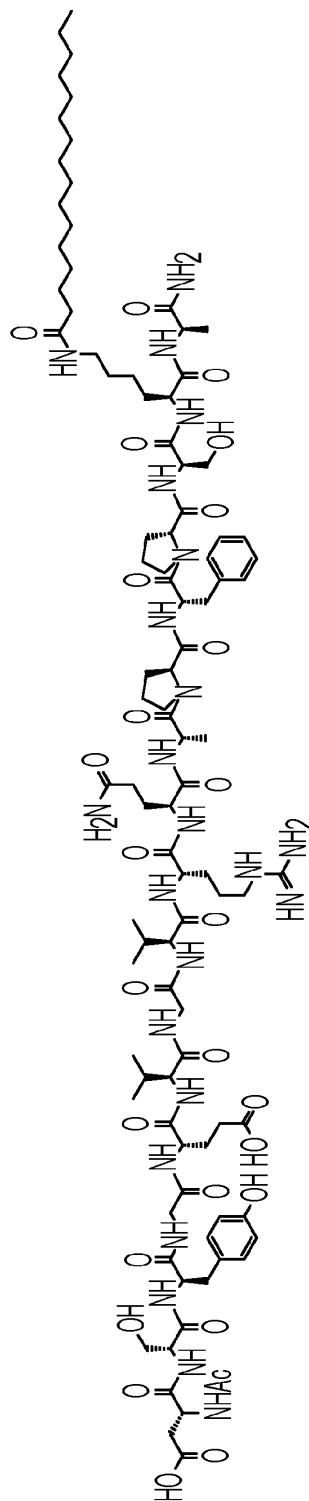


FIG. 41

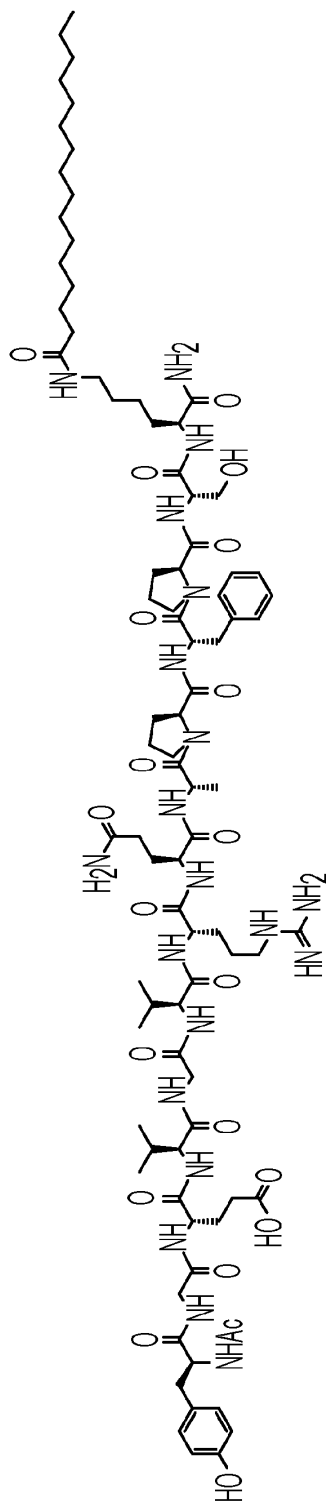


FIG. 42

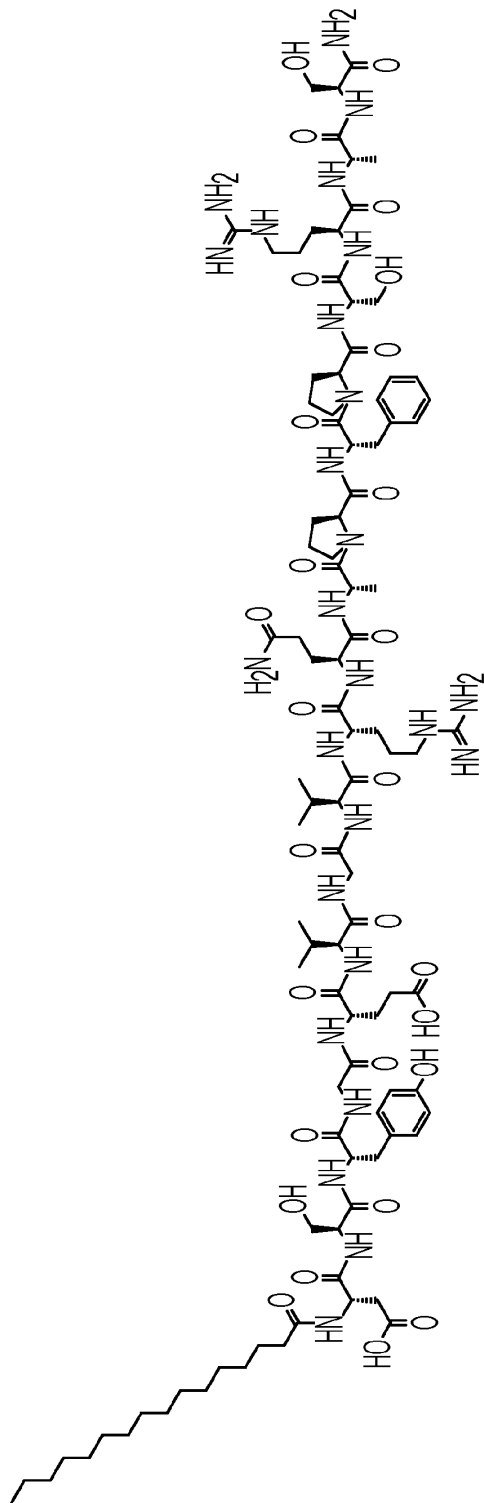
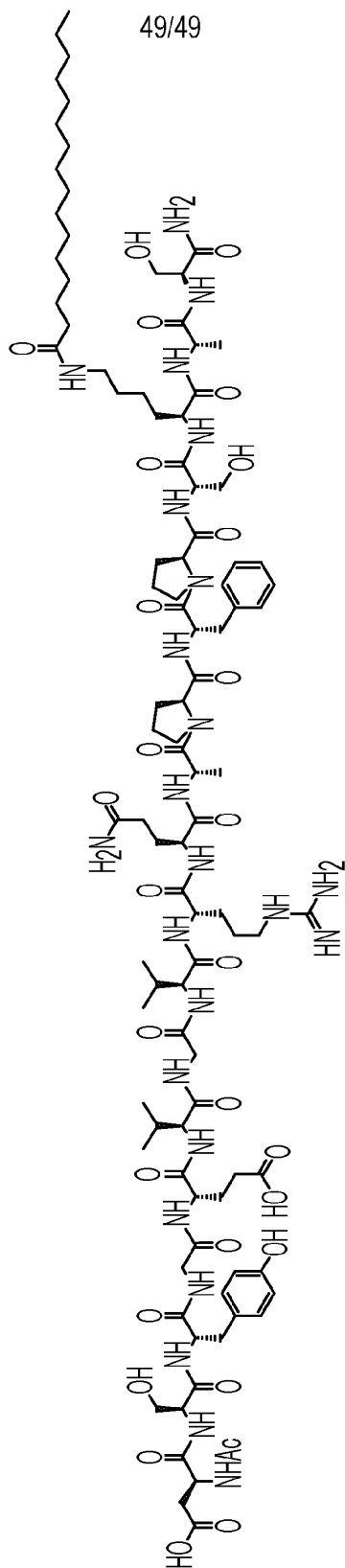


FIG. 43



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