FIG. 1A

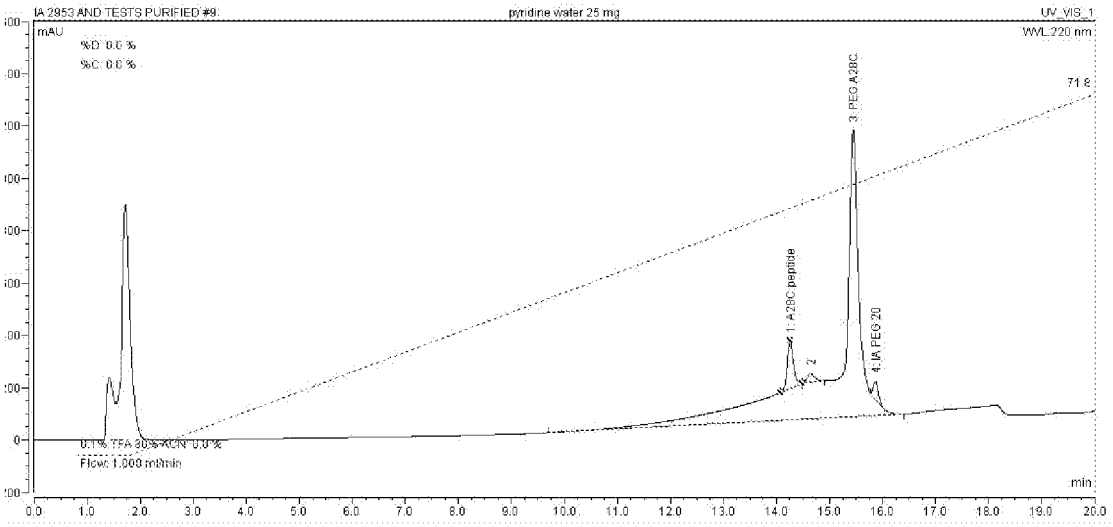

IA 2953 AND TESTS PURIFIED #9
pyridine water 25 mg
UV_VIS_1
mAU
%D: 0.0 %
%C: 0.0 %
WVL:220 nm
71.8
3: PEG A28C
1: A28C peptide
2
4: IA PEG 20
0.1% TFA 30% ACN 0.0 %
Flow: 1.000 ml/min
min
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0
17.0
18.0
19.0
20.0

FIG. 1B

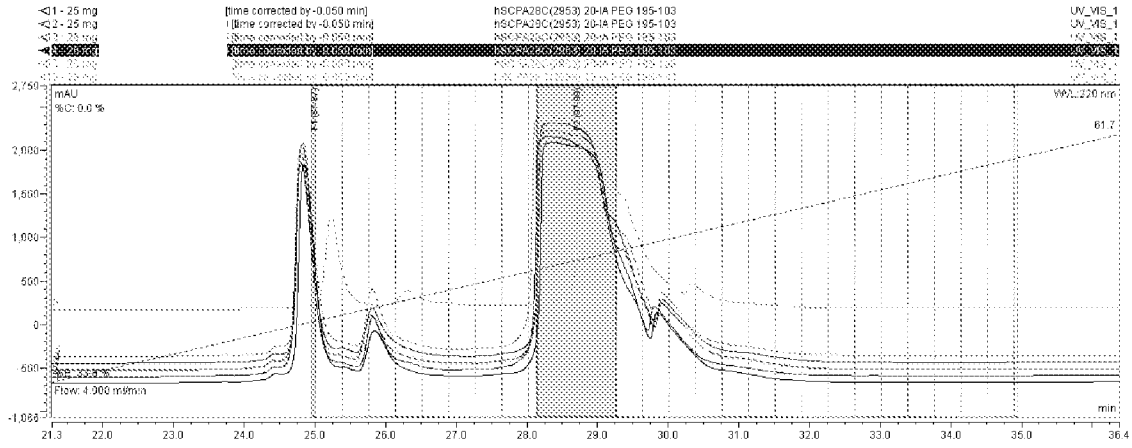

1 - 25 mg
2 - 25 mg
[time corrected by -0.050 min]
hSCPA28C(2953) 20-IA PEG 195-103
UV_VIS_1
mAU
%C: 0.0 %
WVL:220 nm
61.7
Flow: 4.000 ml/min
min
21.3
22.0
23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
32.0
33.0
34.0
35.0
36.4

FIG. 1C

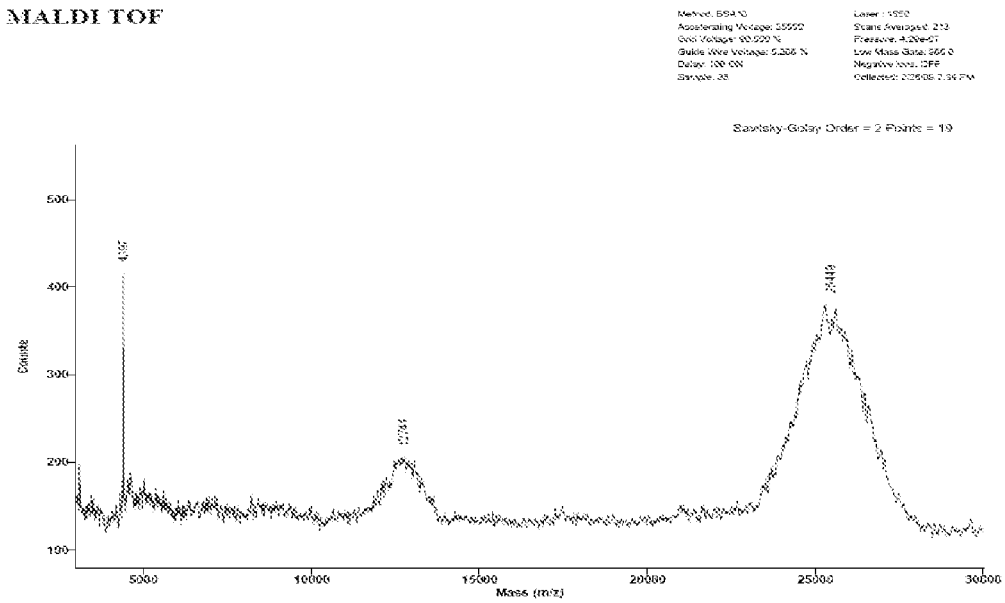

MALDI TOF
Savitsky-Golay Order = 2 Points = 19
500
400
300
200
100
Counts
5000
10000
15000
20000
25000
30000
Mass (m/z)

FIG. 2

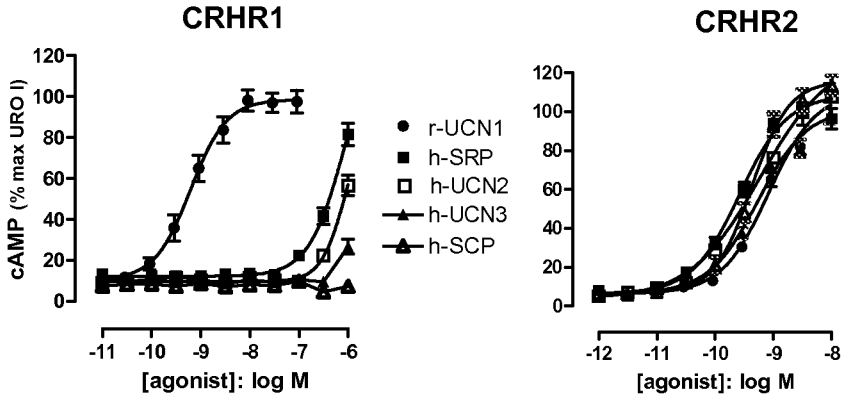

CRHR1
CRHR2
cAMP (% max URO I)
120
100
80
60
40
20
0
-11 -10 -9 -8 -7 -6
[agonist]: log M
r-UCN1
h-SRP
h-UCN2
h-UCN3
h-SCP
-12 -11 -10 -9 -8
[agonist]: log M

FIG. 3

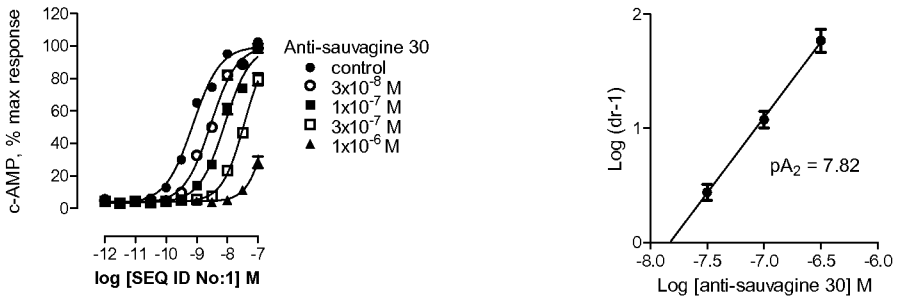

c-AMP, % max response
120
100
80
60
40
20
0
-12 -11 -10 -9 -8 -7
log [SEQ ID No:1] M
Anti-sauvagine 30
control
3x10-8 M
1x10-7 M
3x10-7 M
1x10-6 M
Log (dr-1)
2
1
0
pA2 = 7.82
-8.0 -7.5 -7.0 -6.5 -6.0
Log [anti-sauvagine 30] M

FIG. 4

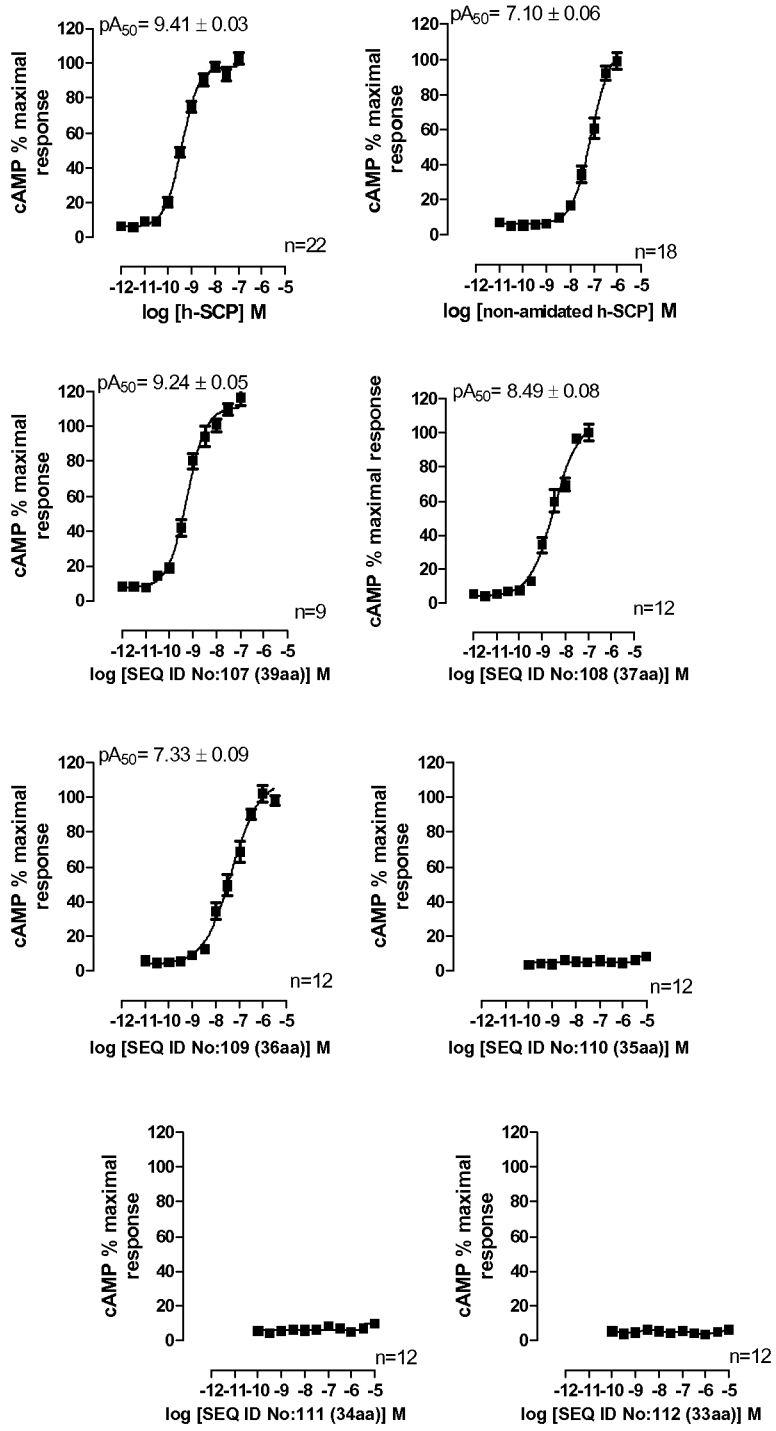

pA50= 9.41 ± 0.03
cAMP % maximal response
n=22
log [h-SCP] M
pA50= 7.10 ± 0.06
n=18
log [non-amidated h-SCP] M
pA50= 9.24 ± 0.05
n=9
log [SEQ ID No:107 (39aa)] M
pA50= 8.49 ± 0.08
cAMP % maximal response
n=12
log [SEQ ID No:108 (37aa)] M
pA50= 7.33 ± 0.09
n=12
log [SEQ ID No:109 (36aa)] M
n=12
log [SEQ ID No:110 (35aa)] M
n=12
log [SEQ ID No:111 (34aa)] M
n=12
log [SEQ ID No:112 (33aa)] M

FIG. 5

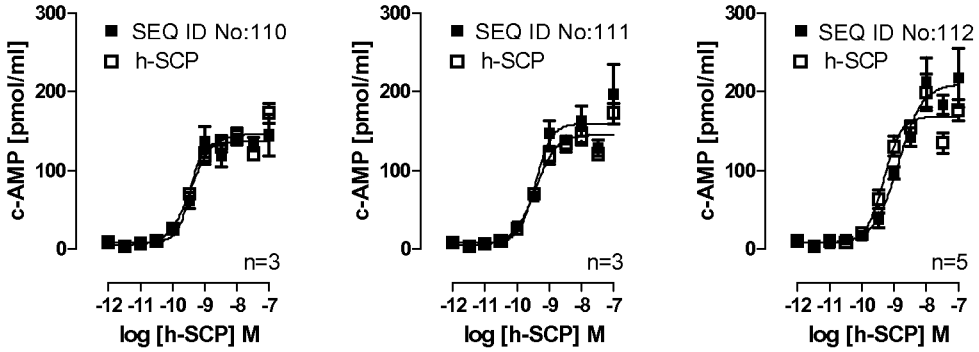

300
200
100
0
c-AMP [pmol/ml]
SEQ ID No:110
h-SCP
n=3
-12 -11 -10 -9 -8 -7
log [h-SCP] M
SEQ ID No:111
h-SCP
n=3
SEQ ID No:112
h-SCP
n=5

FIG. 6

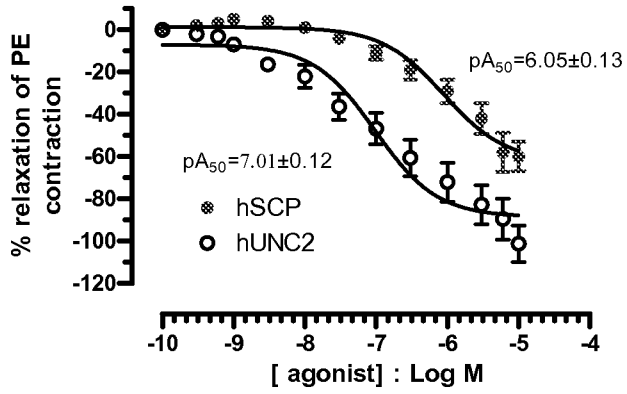
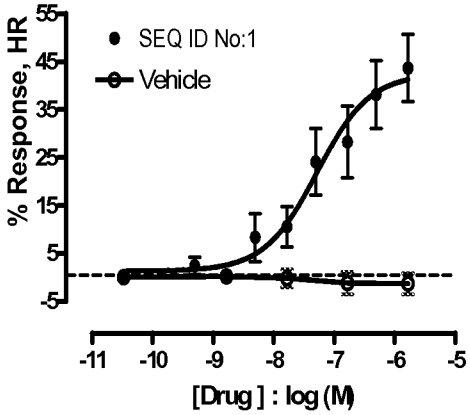
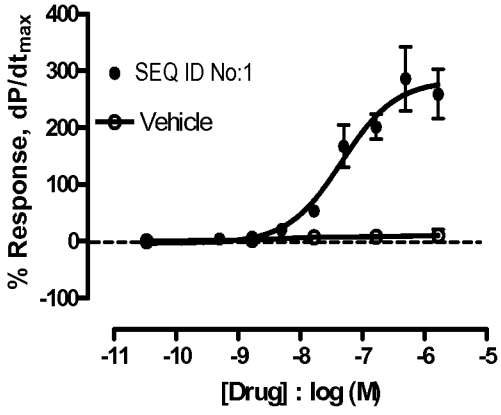
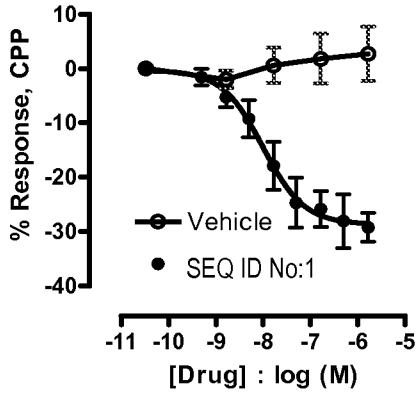

% relaxation of PE contraction
0
-20
-40
-60
-80
-100
-120
pA50=6.05±0.13
pA50=7.01±0.12
hSCP
hUNC2
-10
-9
-8
-7
-6
-5
-4
[agonist] : Log M

FIG. 7


% Response, HR
55
45
35
25
15
5
-5
SEQ ID No:1
Vehicle
-11
-10
-9
-8
-7
-6
-5
[Drug] : log (M)


% Response, dP/dtmax
400
300
200
100
0
-100
SEQ ID No:1
Vehicle
-11
-10
-9
-8
-7
-6
-5
[Drug] : log (M)


% Response, CPP
10
0
-10
-20
-30
-40
Vehicle
SEQ ID No:1
-11
-10
-9
-8
-7
-6
-5
[Drug] : log (M)