FIGURE 1

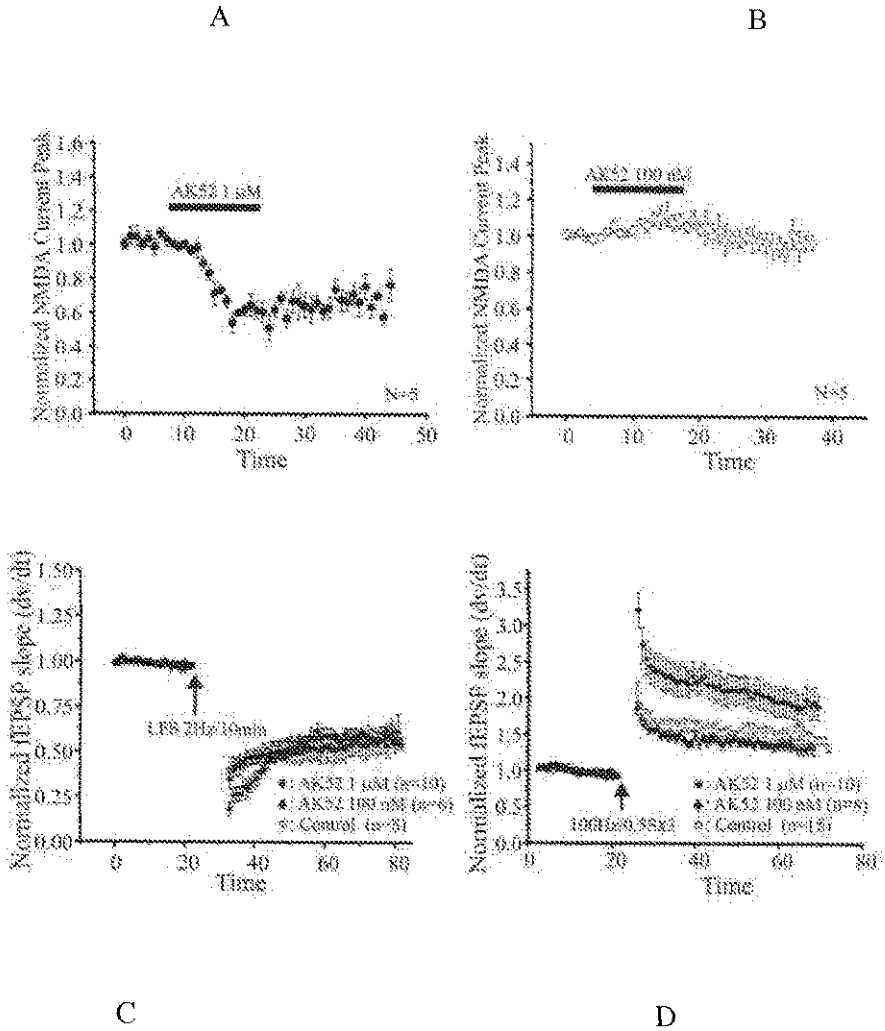

A
B
Normalized NMDA Current Peak
AK52 1 uM
AK52 100 nM
N=5
Time
C
D
Normalized fEPSP slope (dv/dt)
LFS 2Hz/10min
100Hz/0.5Sx1
Time

FIGURE 2

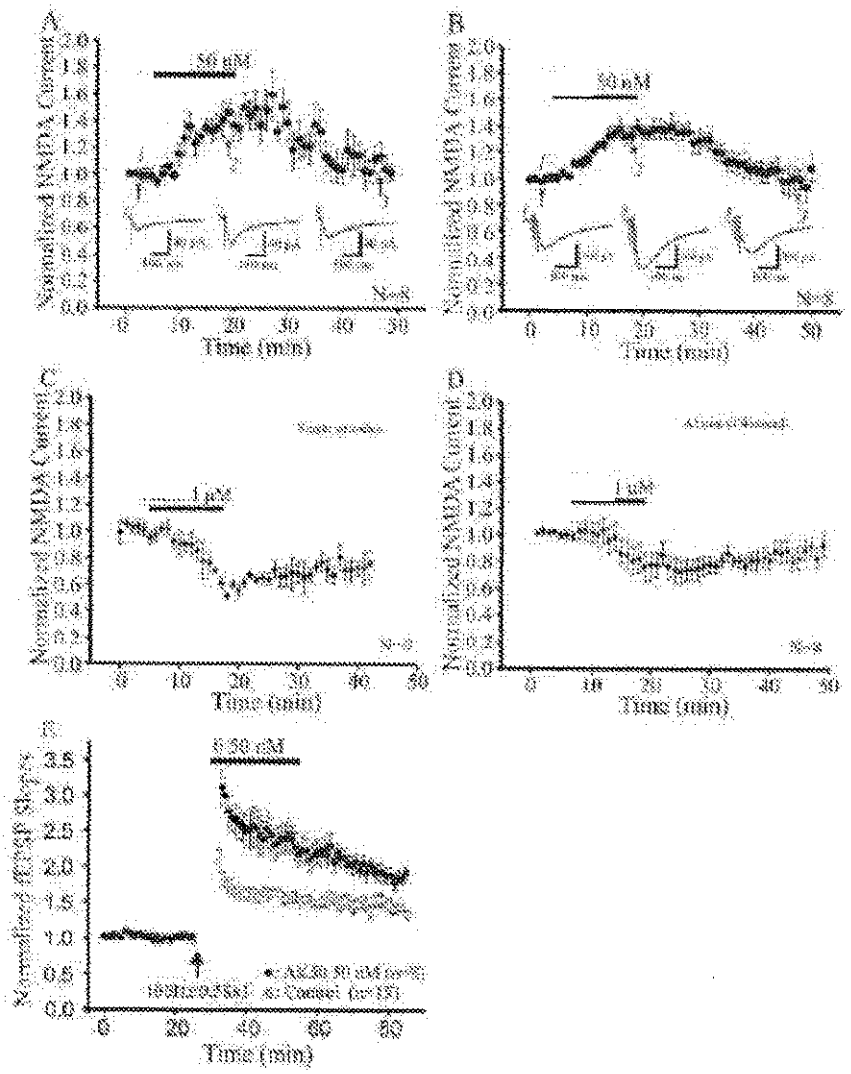

A
B
C
D
E
50 nM
1 μM
Time (min)
Normalized NMDA Current
Normalized fEPSP Slope

FIGURE 3

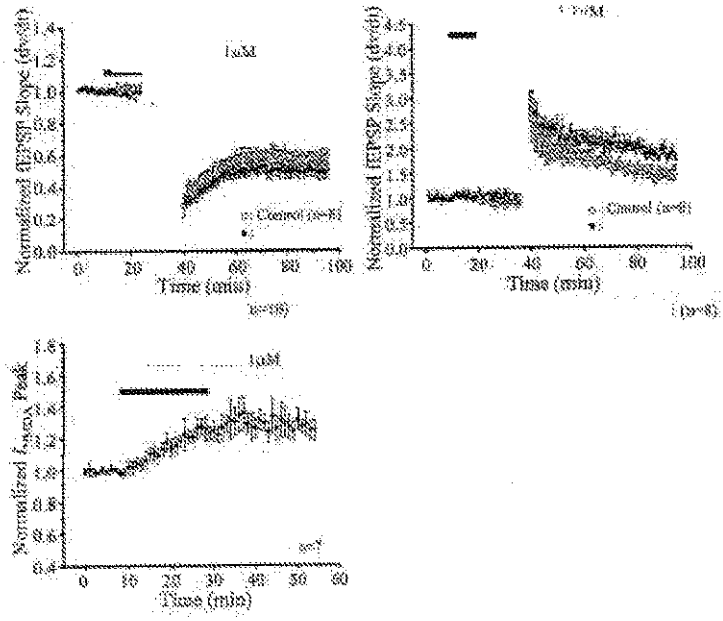

Normalized fEPSP Slope (dv/dt)
Time (min)
Control
Normalized fEPSP Slope (dv/dt)
Time (min)
Control
Normalized
Time (min)

FIGURE 4

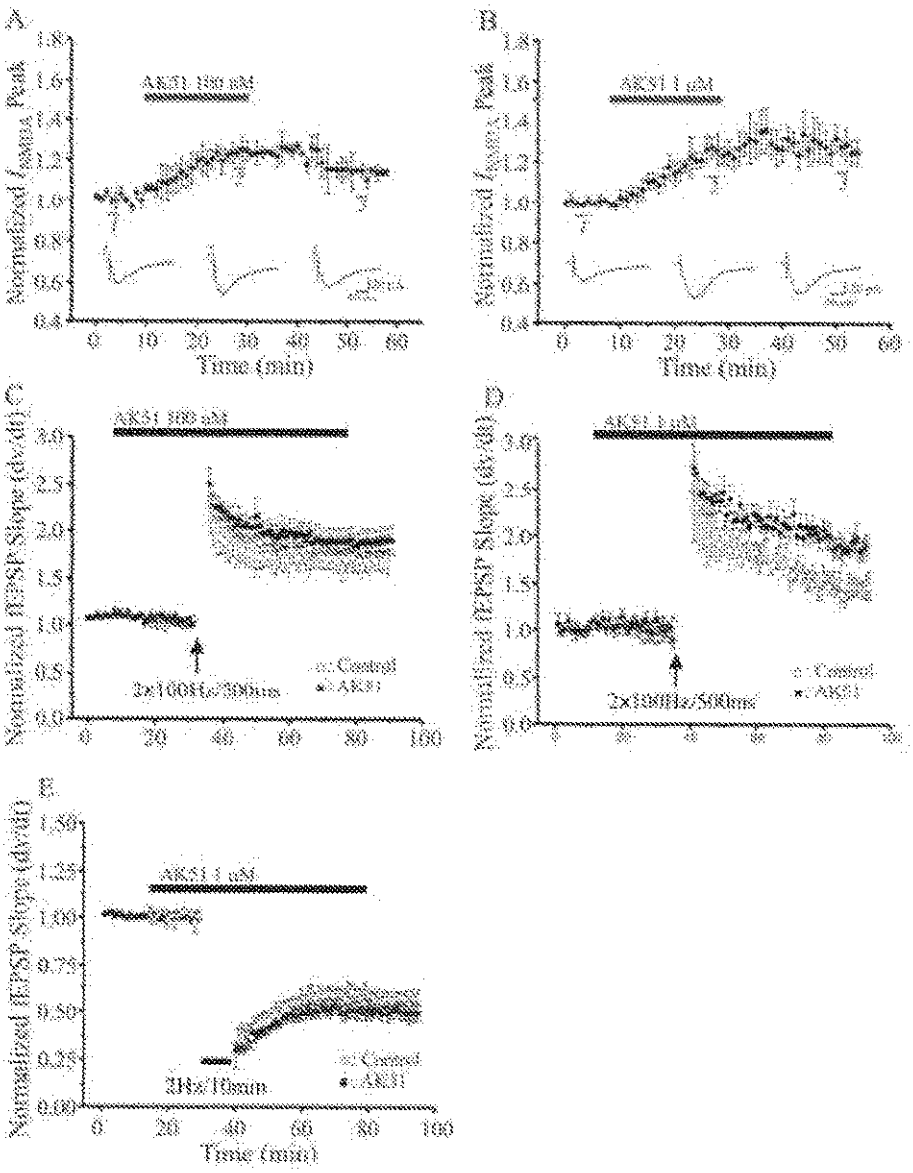

A
AK51 100 nM
Normalized I_{AMPA} Peak
Time (min)
B
AK51 1 nM
Normalized I_{AMPA} Peak
Time (min)
C
AK51 100 nM
Normalized fEPSP Slope (dv/dt)
3x100Hz/300ms
Control
AK51
D
AK51 1 nM
Normalized fEPSP Slope (dv/dt)
2x100Hz/500ms
Control
AK51
E
AK51 1 nM
Normalized fEPSP Slope (dv/dt)
2Hz/10min
Control
AK51
Time (min)

FIGURE 5

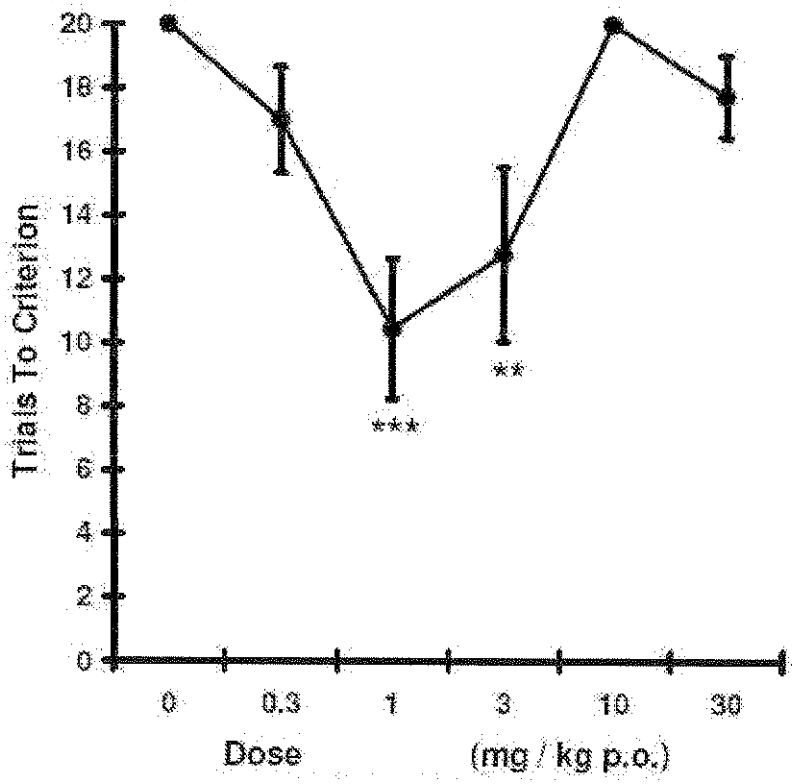

Trials To Criterion
20
18
16
14
12
10
8
6
4
2
0
***
**
0
0.3
1
3
10
30
Dose
(mg / kg p.o.)

FIGURE 6

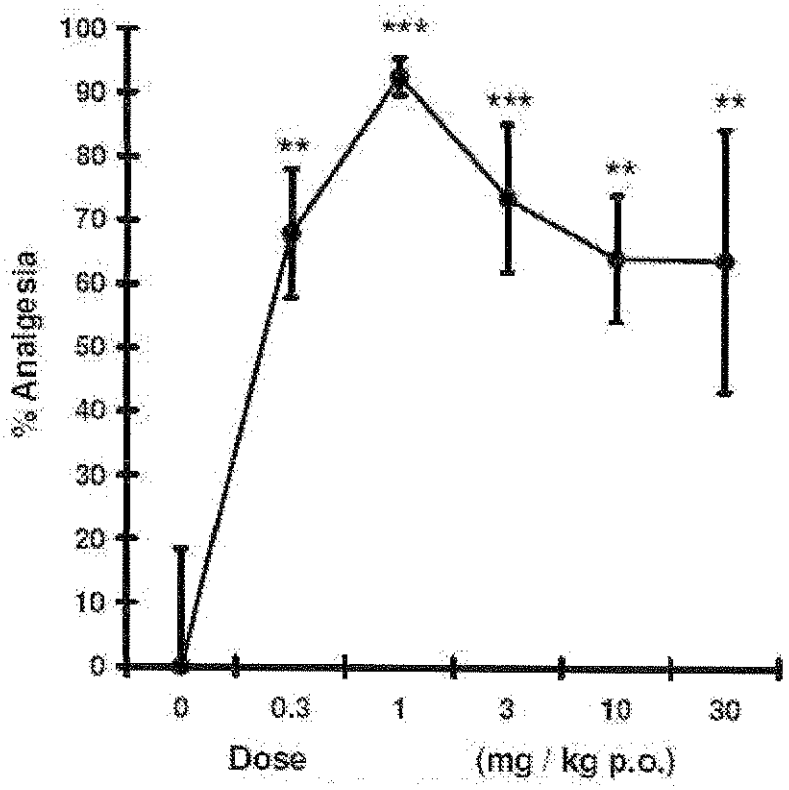

100
90
80
70
60
50
40
30
20
10
0
% Analgesia
**
***
***
**
**
0
0.3
1
3
10
30
Dose
(mg / kg p.o.)

FIGURE 7

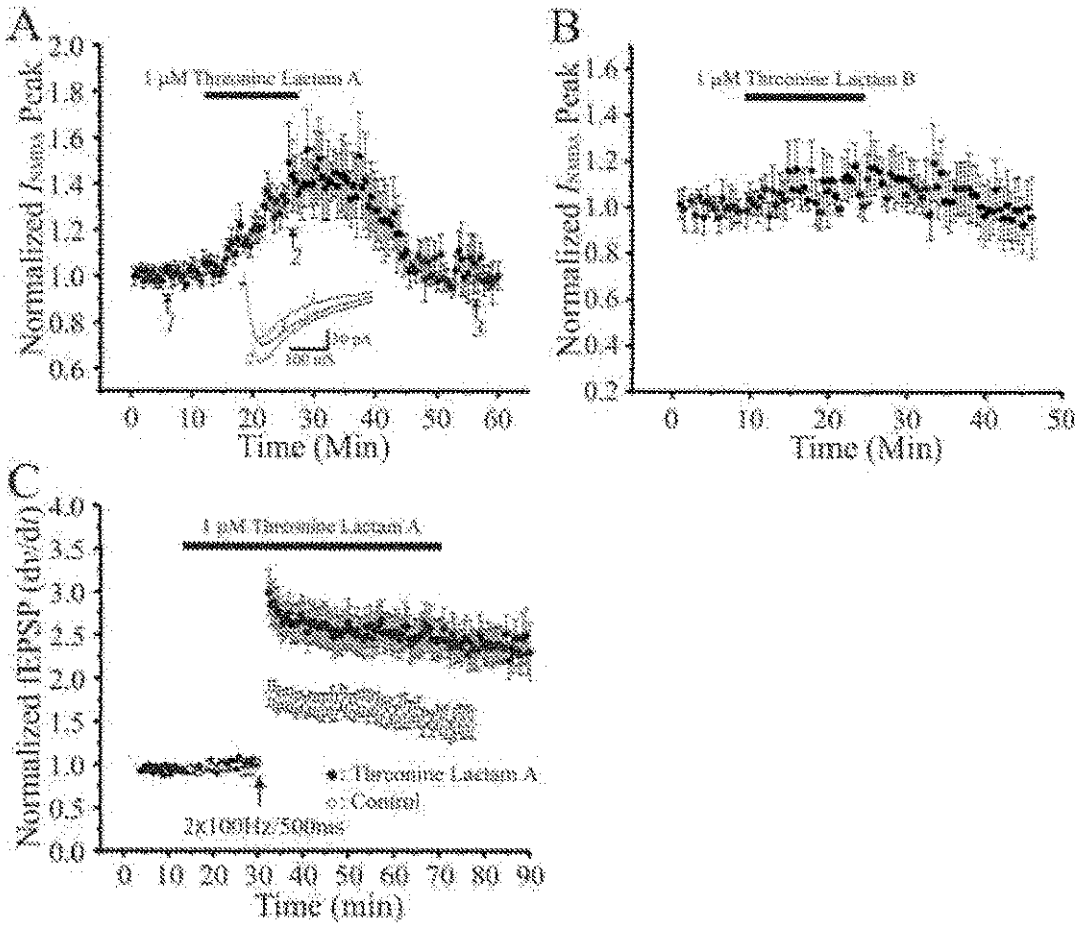
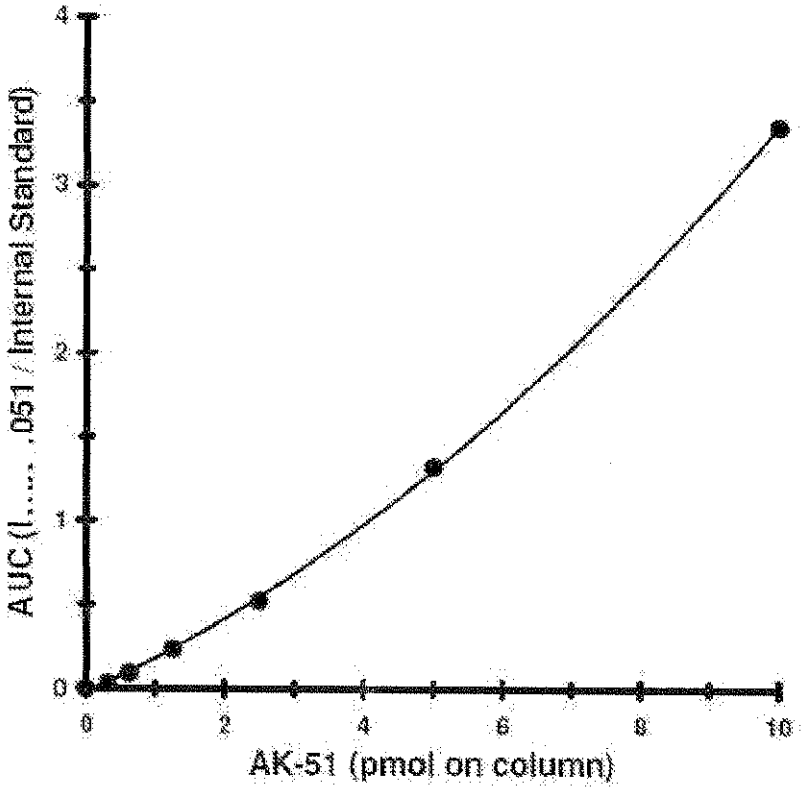

A
1 μM Threonine Lactam A
Normalized I_{AMPA} Peak
Time (Min)
B
1 μM Threonine Lactam B
Normalized I_{AMPA} Peak
Time (Min)
C
1 μM Threonine Lactam A
Normalized fEPSP (dv/dt)
★: Threonine Lactam A
○: Control
2x100Hz/500ms
Time (min)

FIGURE 8


AUC (I..... ,051 / Internal Standard)
0
1
2
3
4
0
2
4
6
8
10
AK-51 (pmol on column)