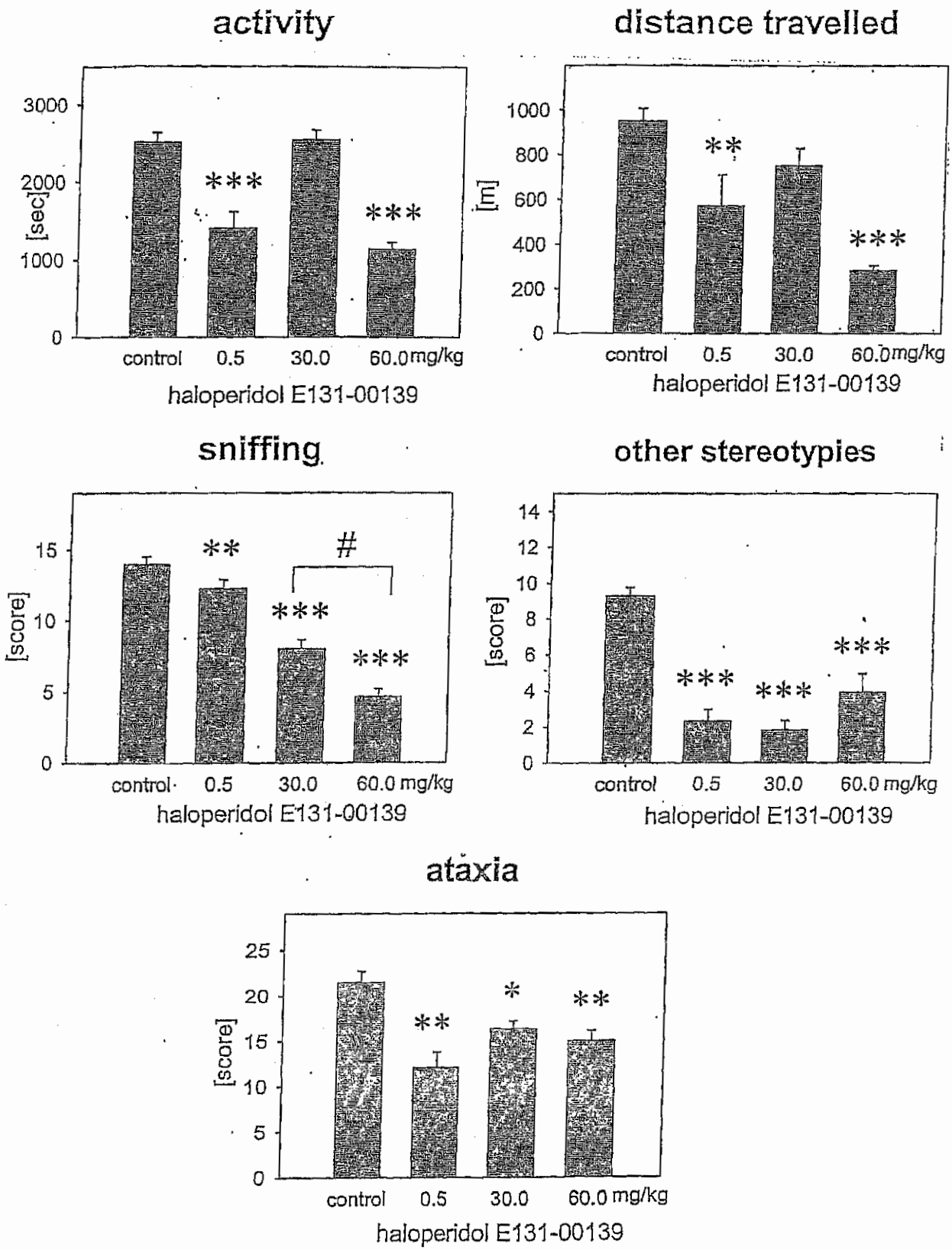

activity
3000
2000
1000
0
[sec]
***
***
control
0.5
30.0
60.0 mg/kg
haloperidol E131-00139
distance travelled
1000
800
600
400
200
0
[m]
**
***
control
0.5
30.0
60.0 mg/kg
haloperidol E131-00139
sniffing
15
10
5
0
[score]
**
#
***
***
control
0.5
30.0
60.0 mg/kg
haloperidol E131-00139
other stereotypies
14
12
10
8
6
4
2
0
[score]
***
***
***
control
0.5
30.0
60.0 mg/kg
haloperidol E131-00139
ataxia
25
20
15
10
5
0
[score]
**
*
**
control
0.5
30.0
60.0 mg/kg
haloperidol E131-00139

Figure 1

Figure 2

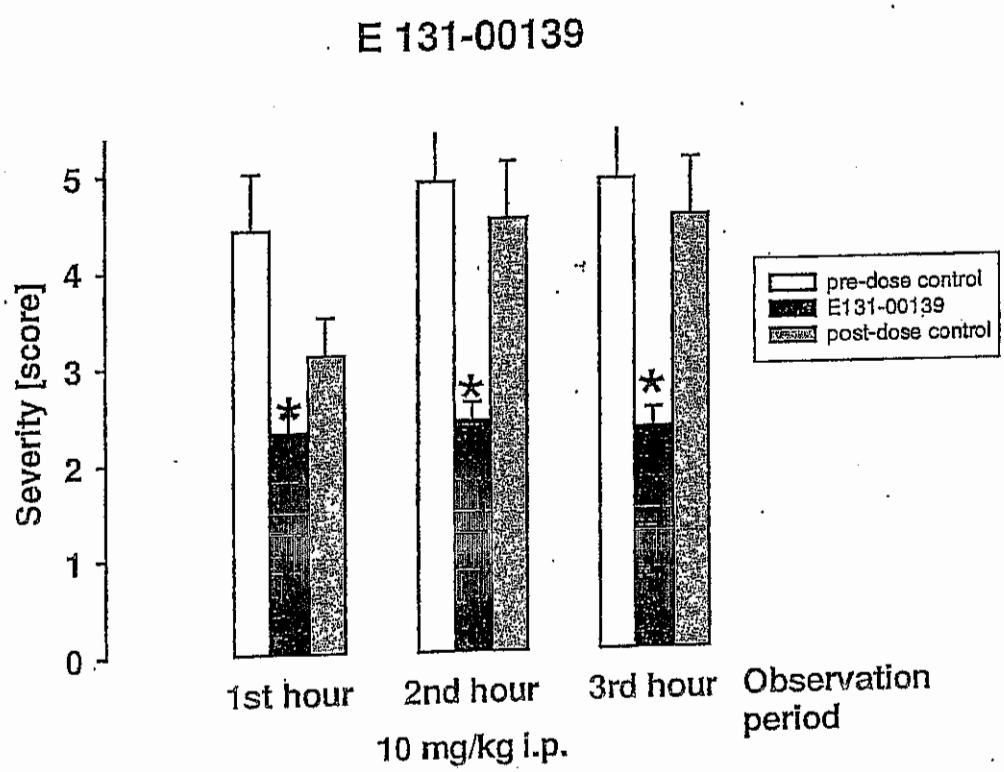

E 131-00139
Severity [score]
0
1
2
3
4
5
pre-dose control
E131-00139
post-dose control
1st hour
2nd hour
3rd hour
Observation period
10 mg/kg i.p.

Figure 3

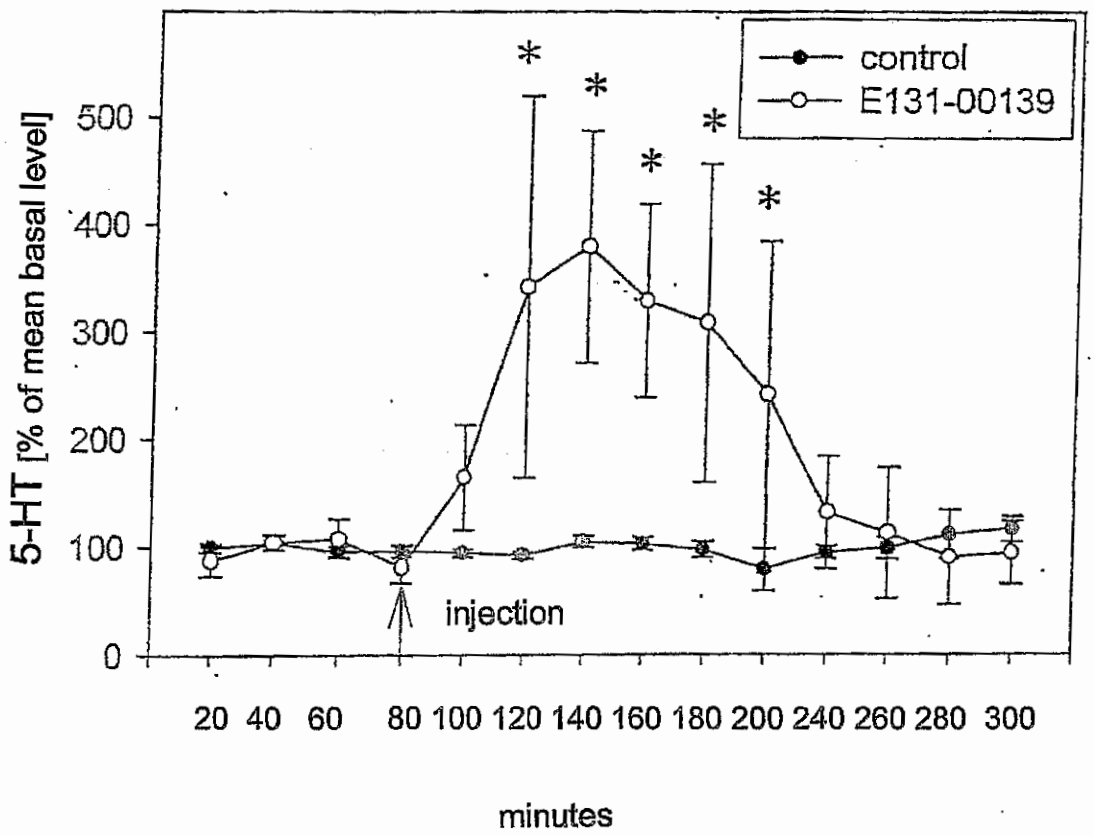

control
E131-00139
5-HT [% of mean basal level]
0
100
200
300
400
500
injection
20 40 60 80 100 120 140 160 180 200 240 260 280 300
minutes

Figure 4

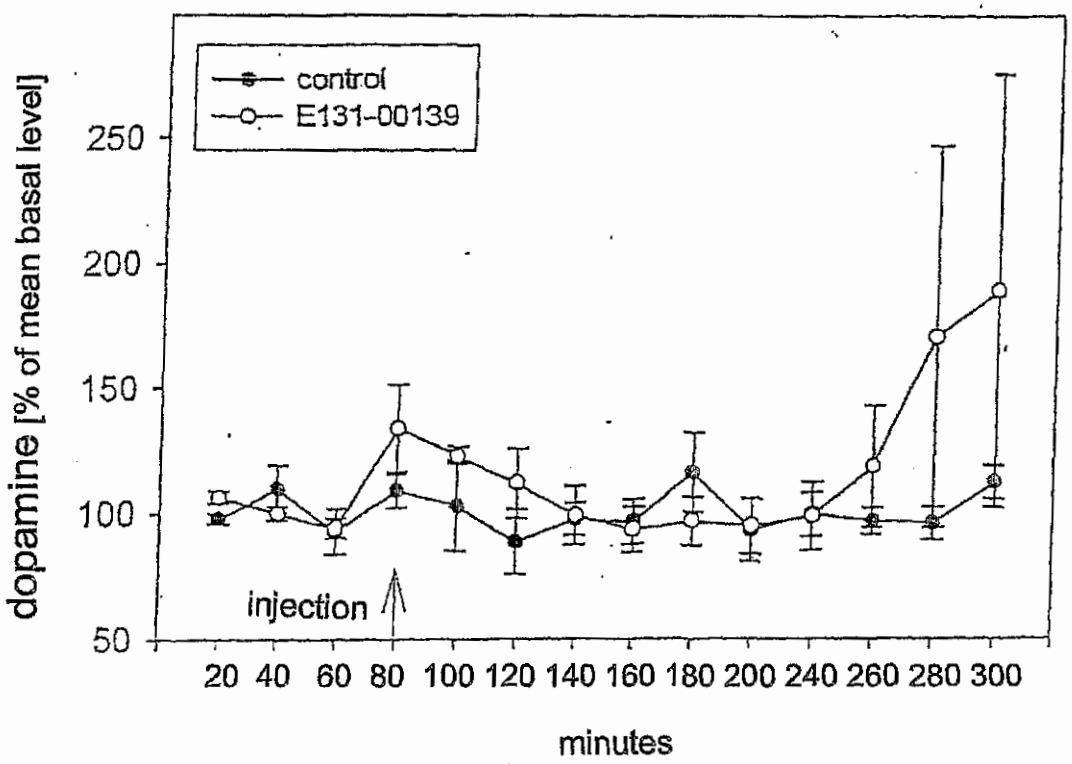

control
E131-00139
dopamine [% of mean basal level]
250
200
150
100
50
injection
20 40 60 80 100 120 140 160 180 200 240 260 280 300
minutes

Figure 5

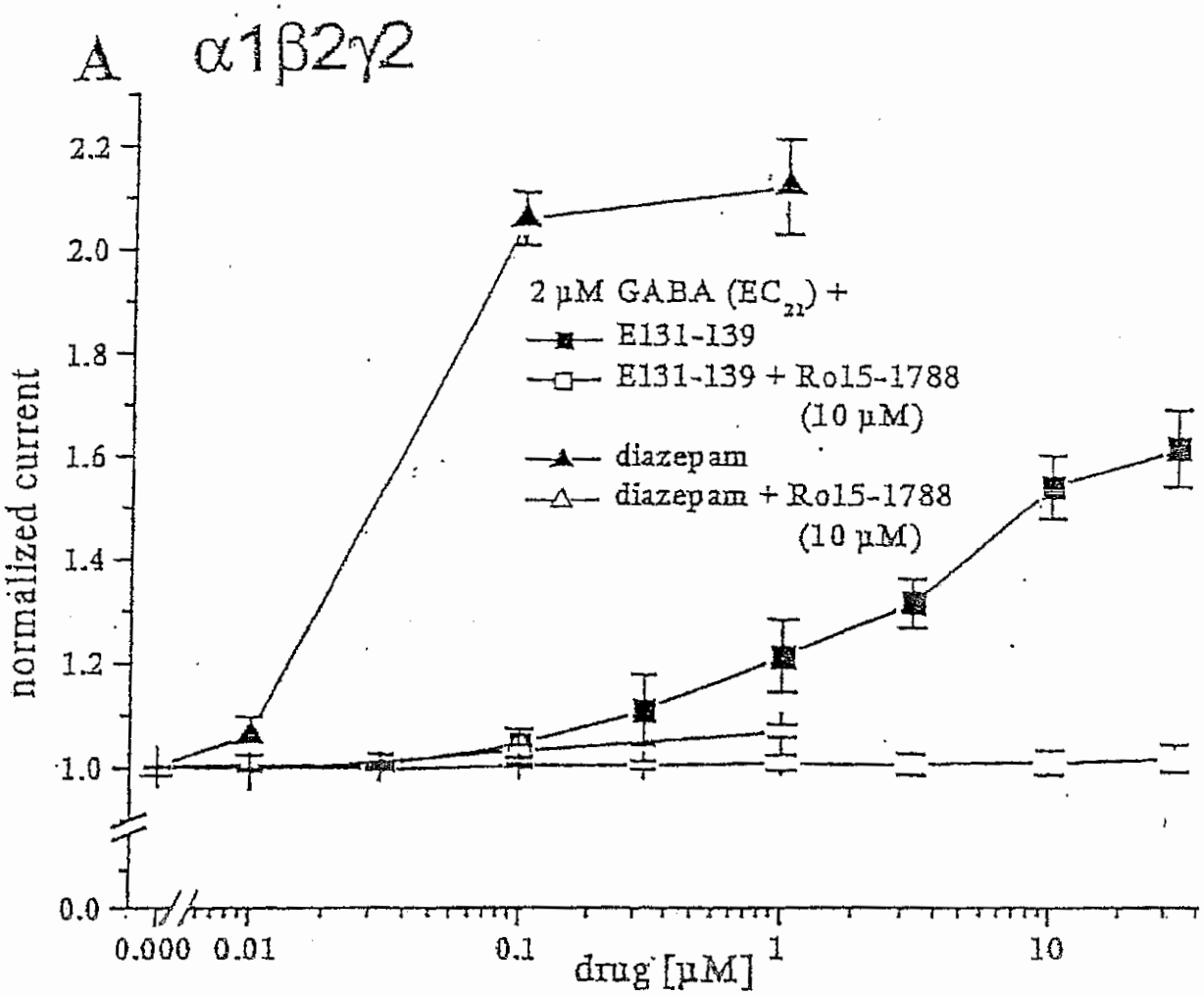

A α1β2γ2
normalized current
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.0
0.000
0.01
0.1
1
10
drug [µM]
2 µM GABA (EC21) +
E131-139
E131-139 + Ro15-1788 (10 µM)
diazepam
diazepam + Ro15-1788 (10 µM)

Figure 5 continued

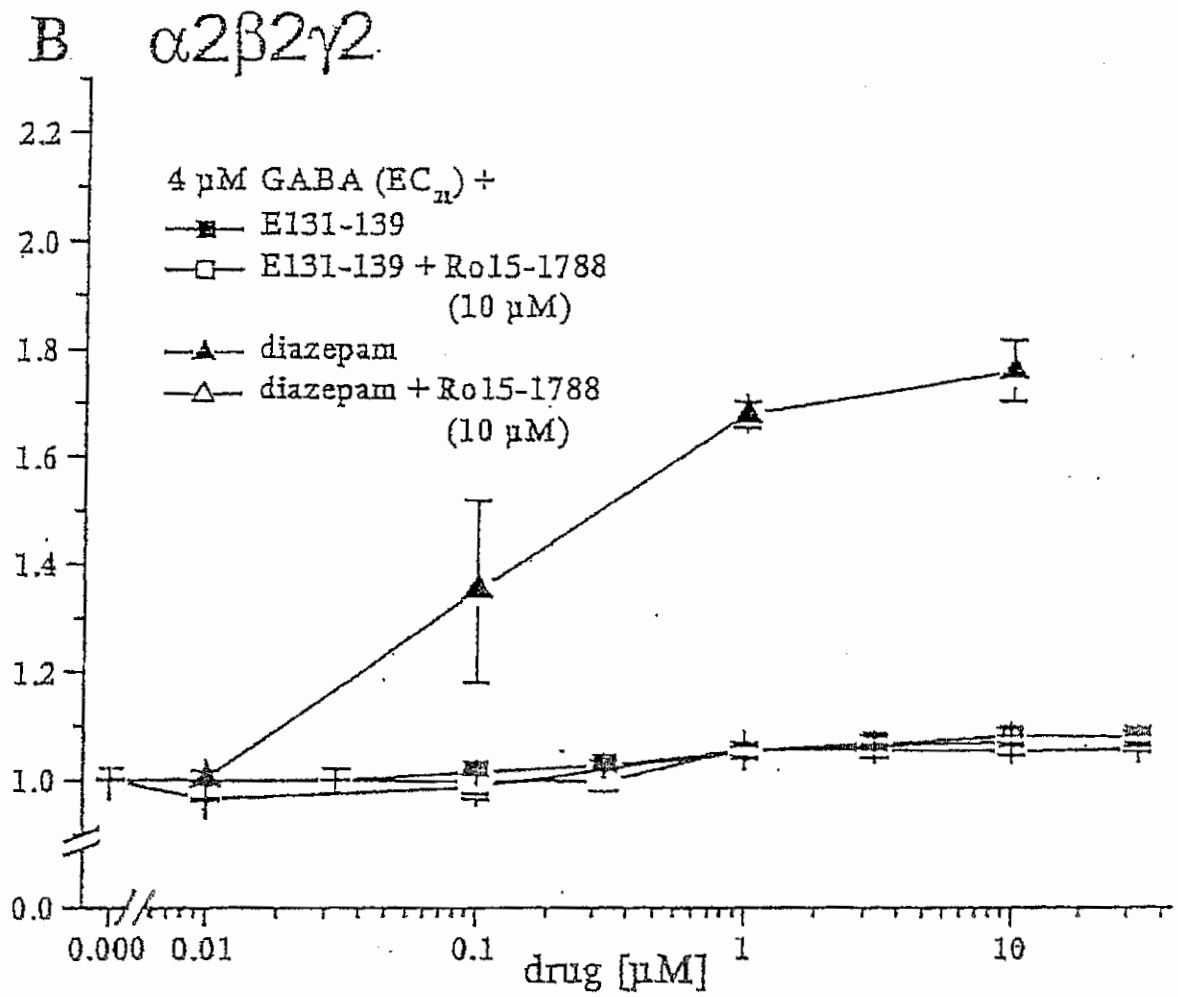


Figure 5 continued

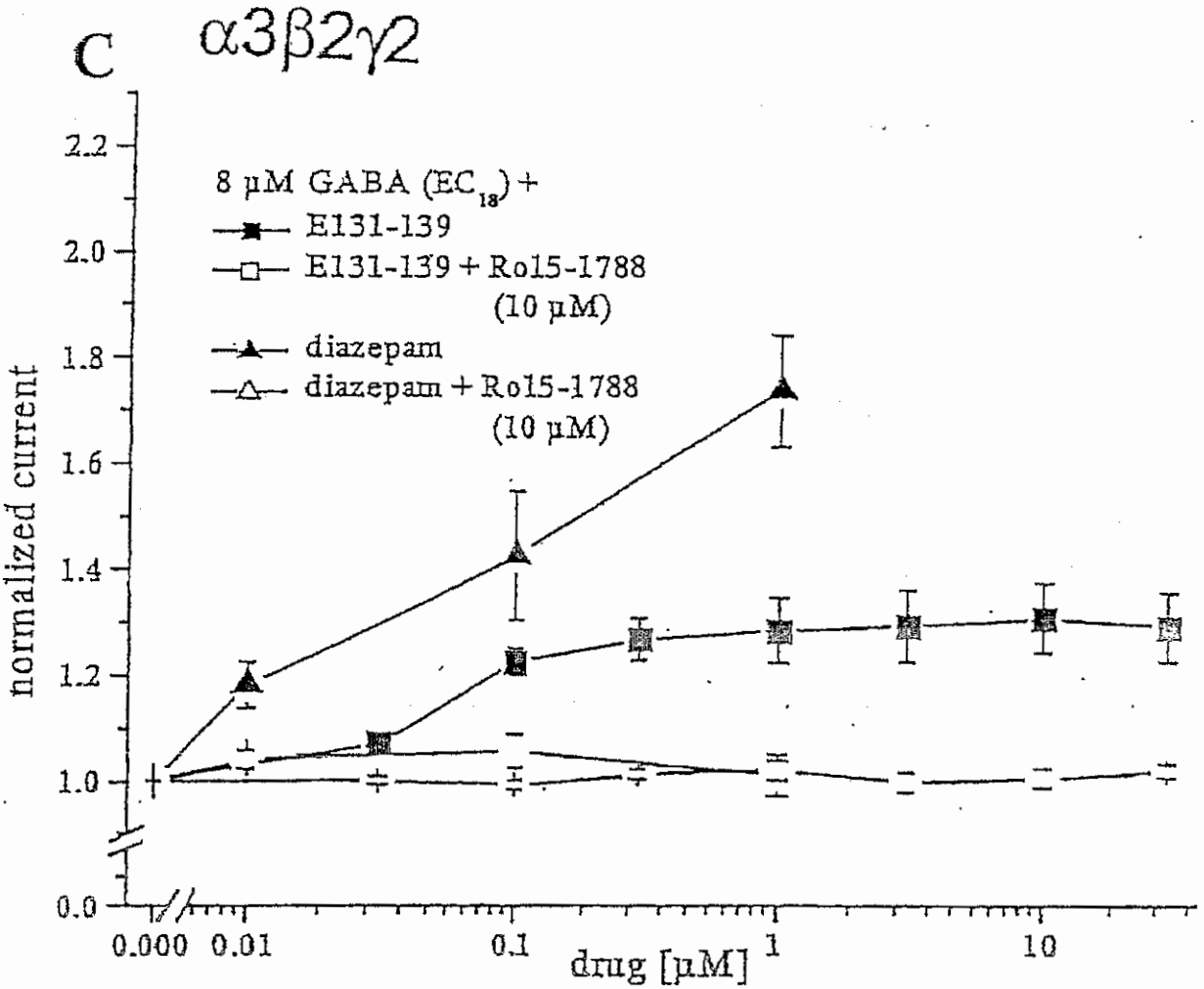


Figure 5 continued

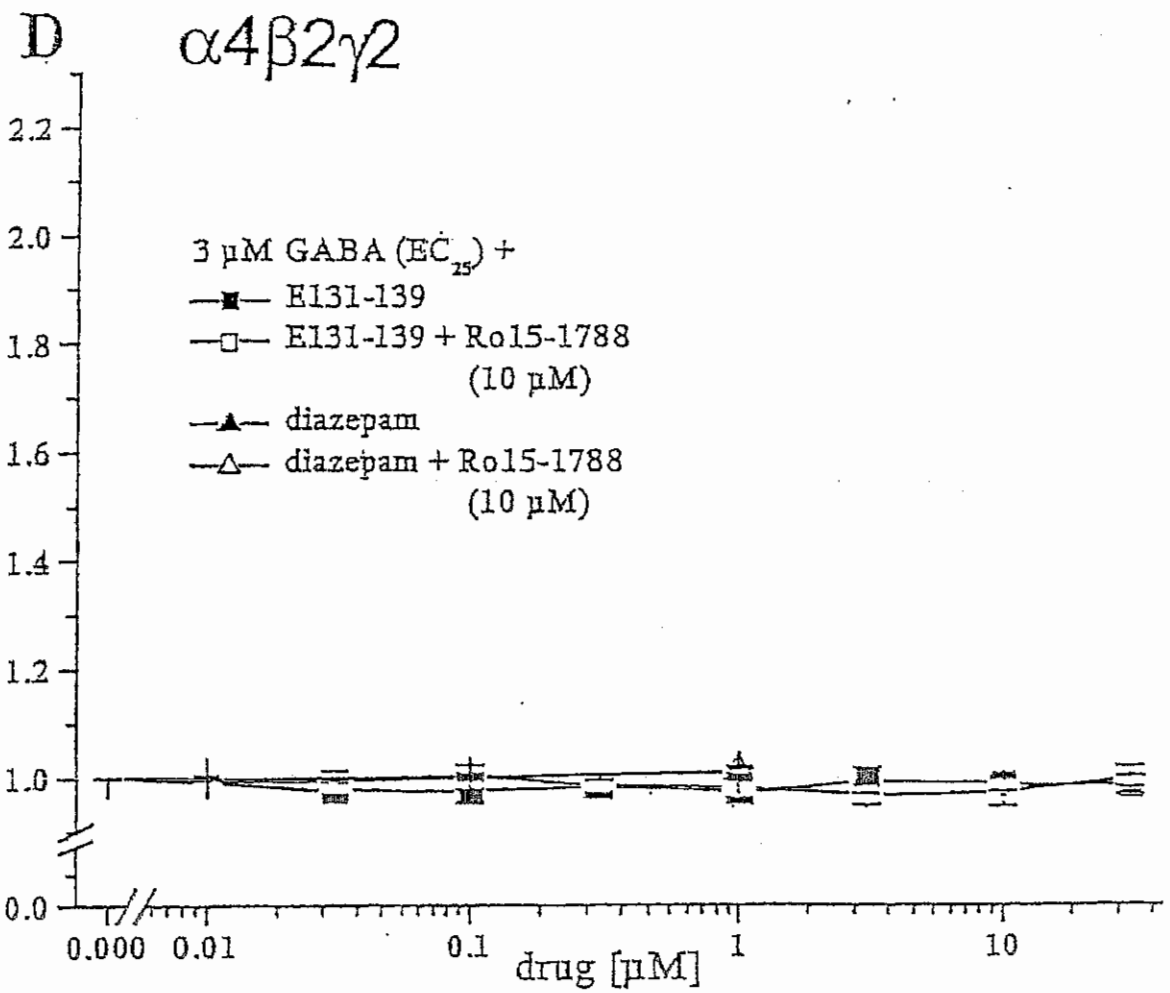


Figure 5 continued

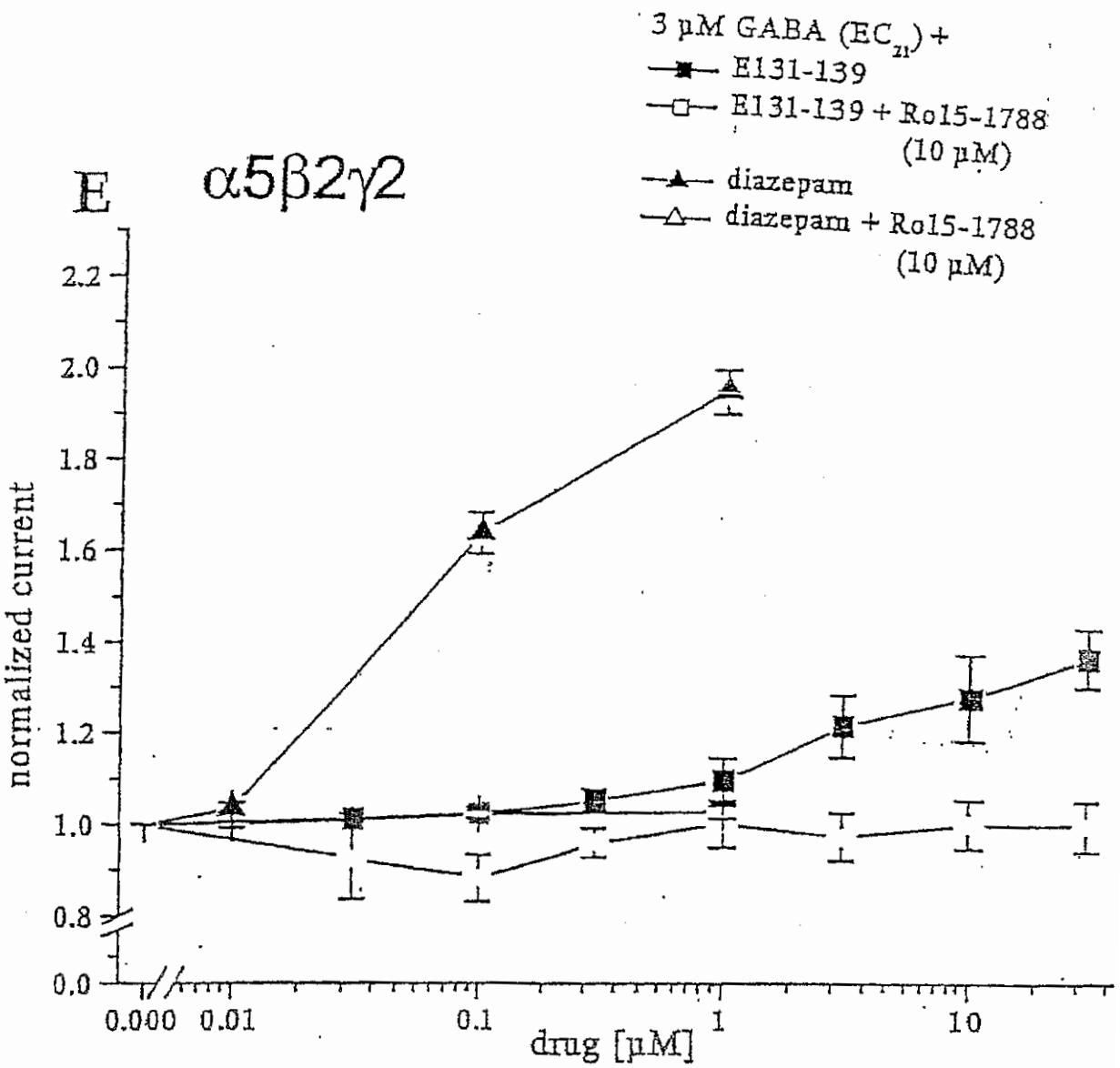


Figure 6

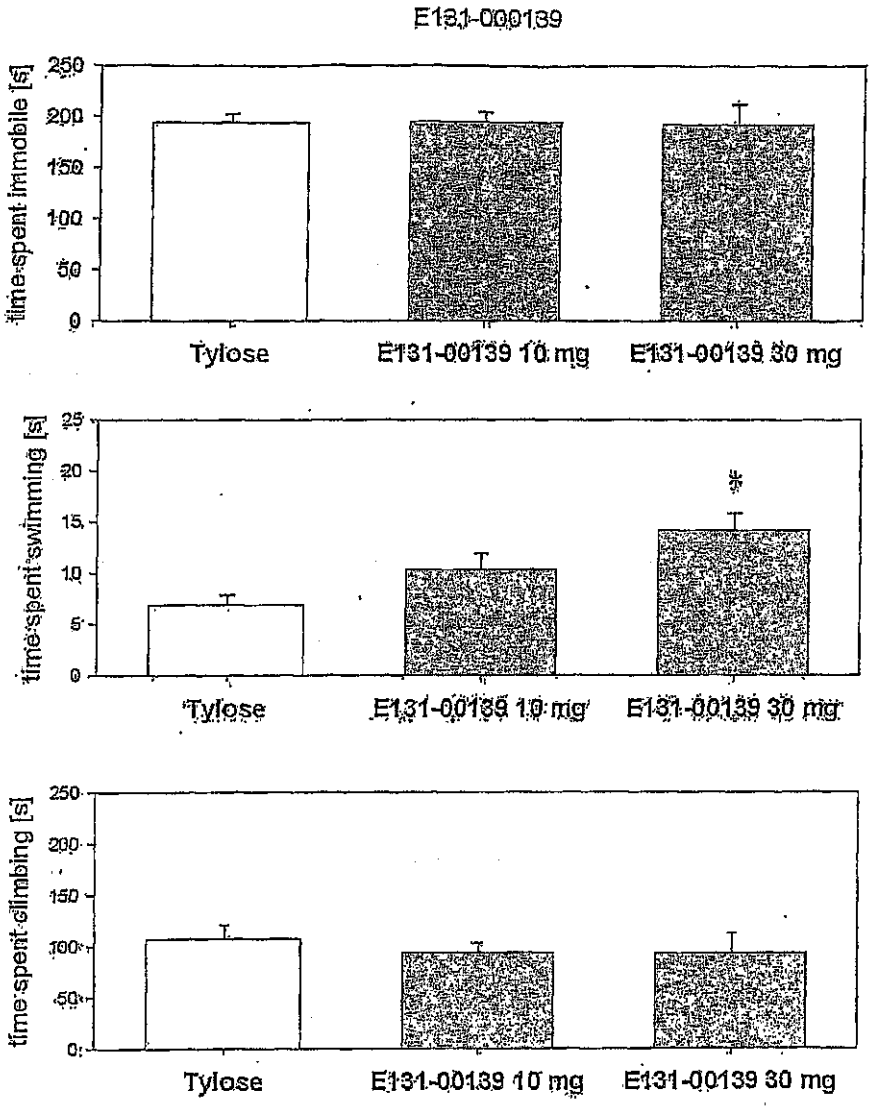

E131-000139
time spent immobile [s]
250
200
150
100
50
0
Tylose
E131-00139 10 mg
E131-00139 30 mg
time spent swimming [s]
25
20
15
10
5
0
*
Tylose
E131-00139 10 mg
E131-00139 30 mg
time spent climbing [s]
250
200
150
100
50
0
Tylose
E131-00139 10 mg
E131-00139 30 mg

Figure 7

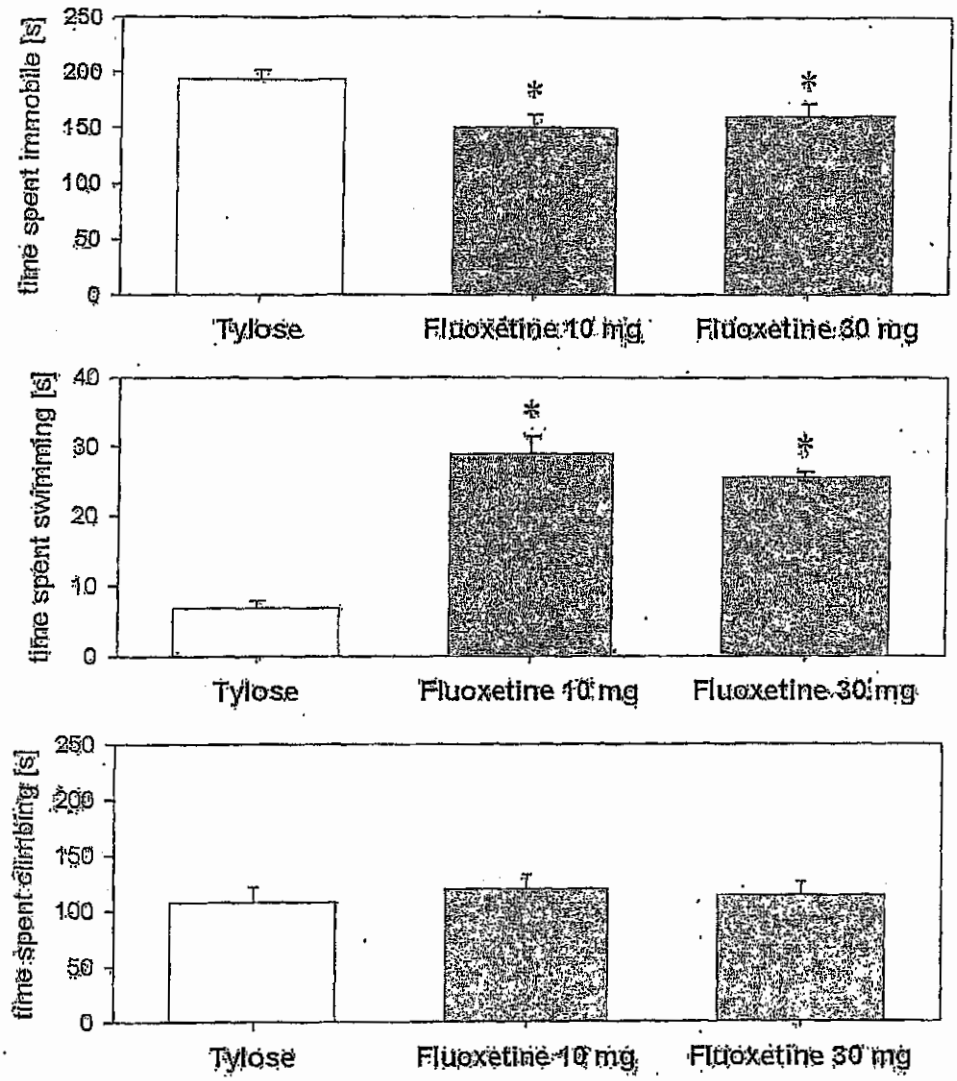

time spent immobile [s]
250
200
150
100
50
0
*
*
Tylose
Fluoxetine 10 mg
Fluoxetine 30 mg
time spent swimming [s]
40
30
20
10
0
*
*
Tylose
Fluoxetine 10 mg
Fluoxetine 30 mg
time spent climbing [s]
250
200
150
100
50
0
Tylose
Fluoxetine 10 mg
Fluoxetine 30 mg

Figure 8

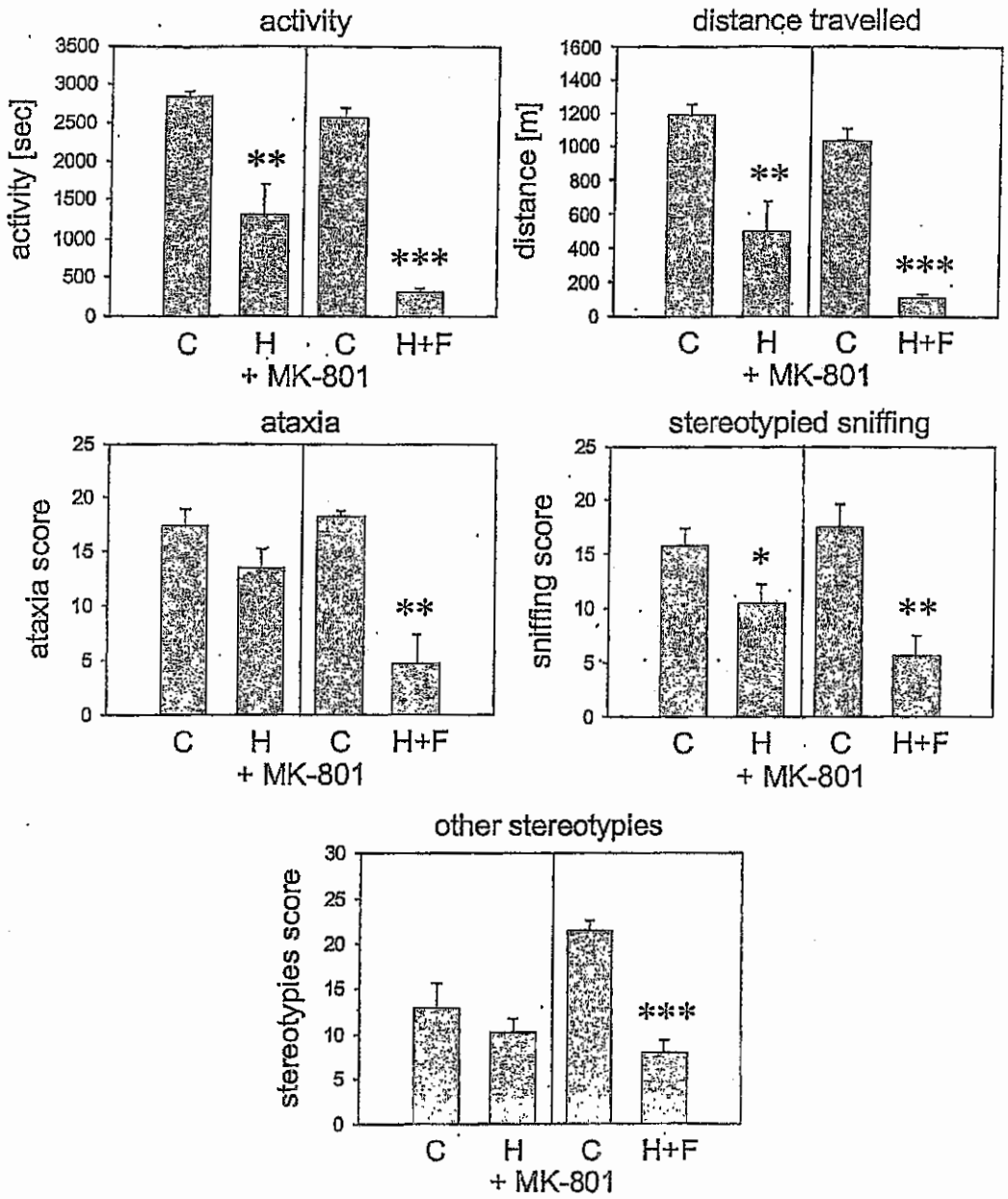
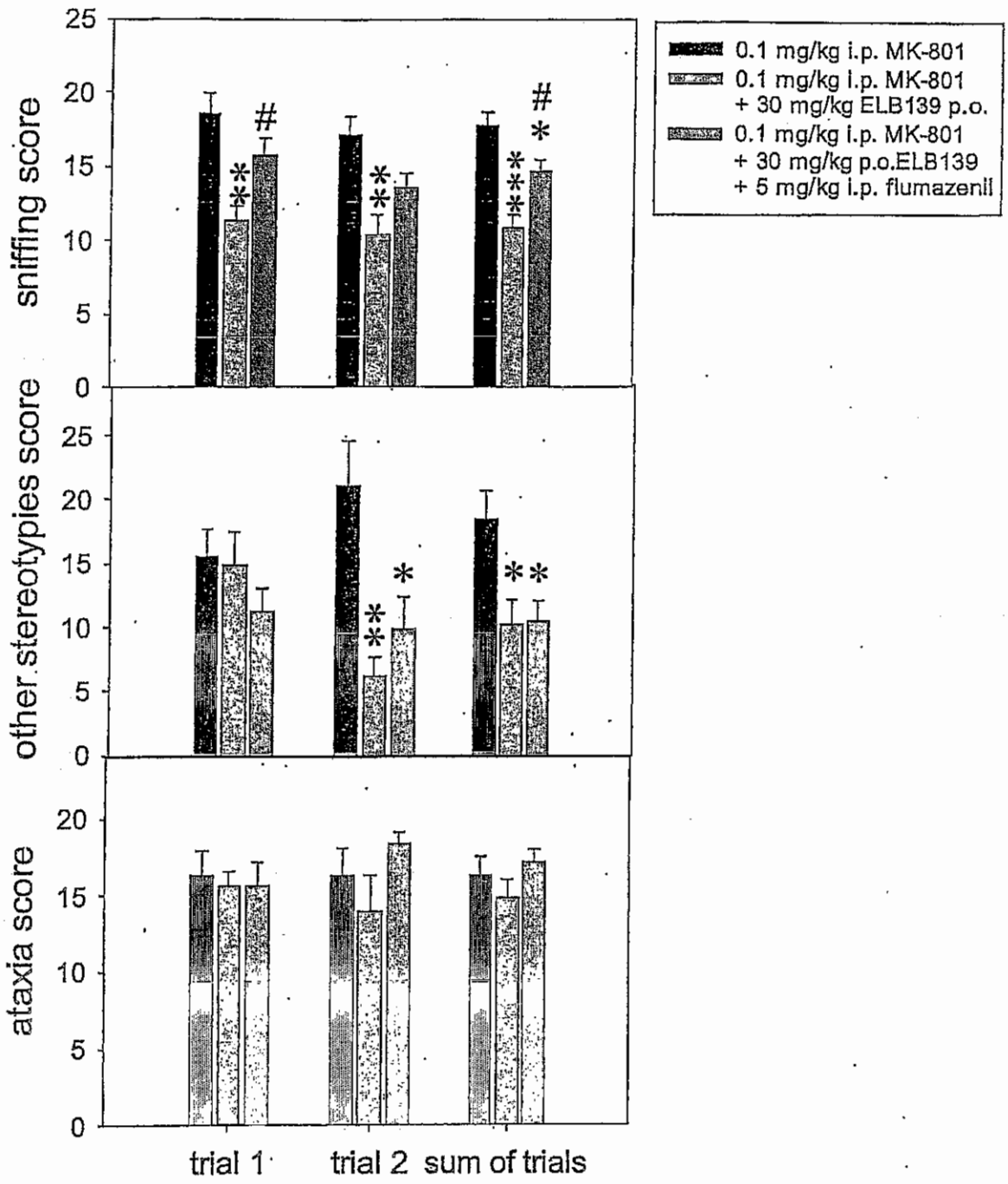

activity
activity [sec]
3500
3000
2500
2000
1500
1000
500
0
**
***
C
H
C
H+F
+ MK-801
distance travelled
distance [m]
1600
1400
1200
1000
800
600
400
200
0
**
***
C
H
C
H+F
+ MK-801
ataxia
ataxia score
25
20
15
10
5
0
**
C
H
C
H+F
+ MK-801
stereotypied sniffing
sniffing score
25
20
15
10
5
0
*
**
C
H
C
H+F
+ MK-801
other stereotypies
stereotypies score
30
25
20
15
10
5
0
***
C
H
C
H+F
+ MK-801

Figure 9


sniffing score
other stereotypies score
ataxia score
0
5
10
15
20
25
trial 1
trial 2
sum of trials
0.1 mg/kg i.p. MK-801
0.1 mg/kg i.p. MK-801 + 30 mg/kg ELB139 p.o.
0.1 mg/kg i.p. MK-801 + 30 mg/kg p.o.ELB139 + 5 mg/kg i.p. flumazenil

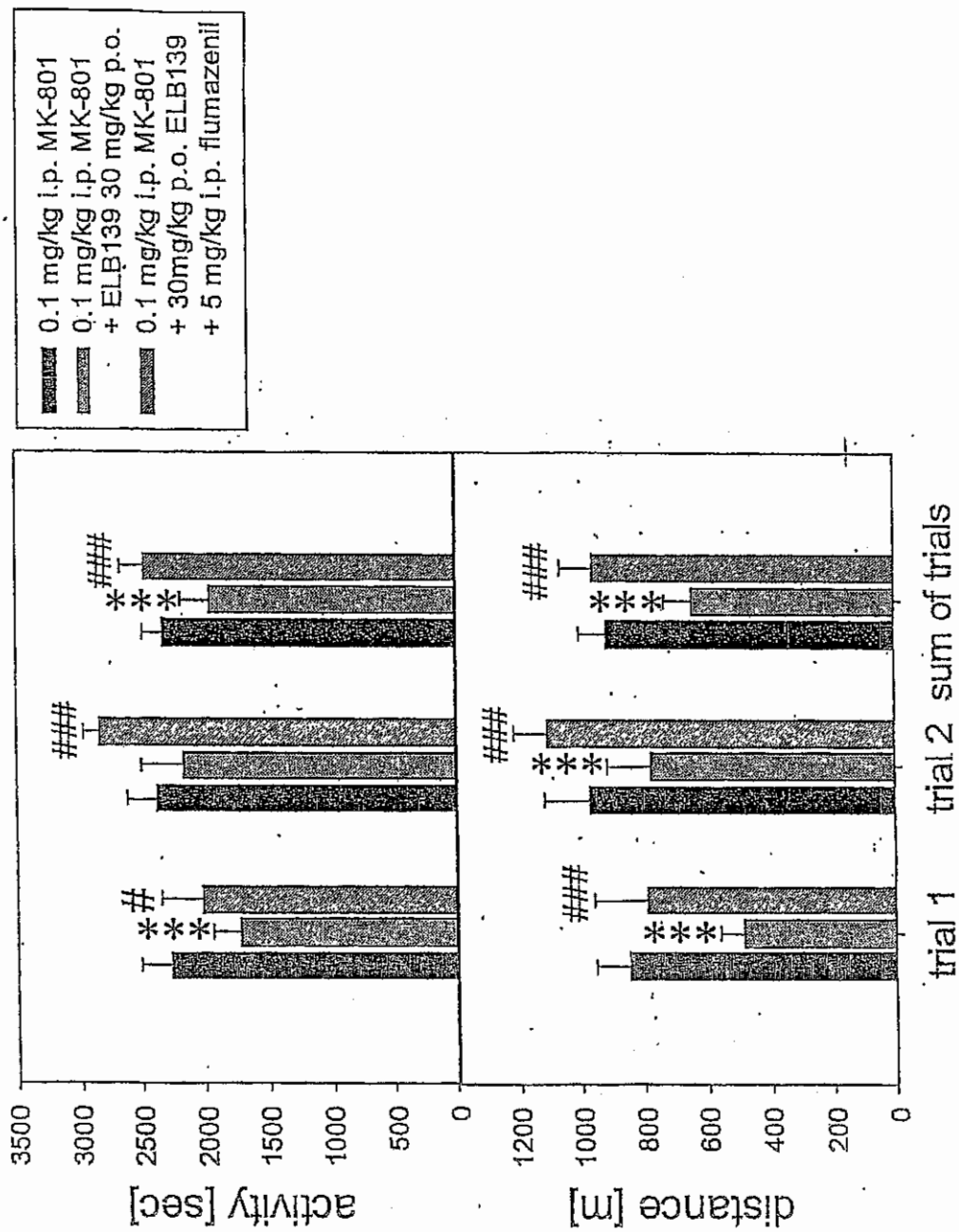
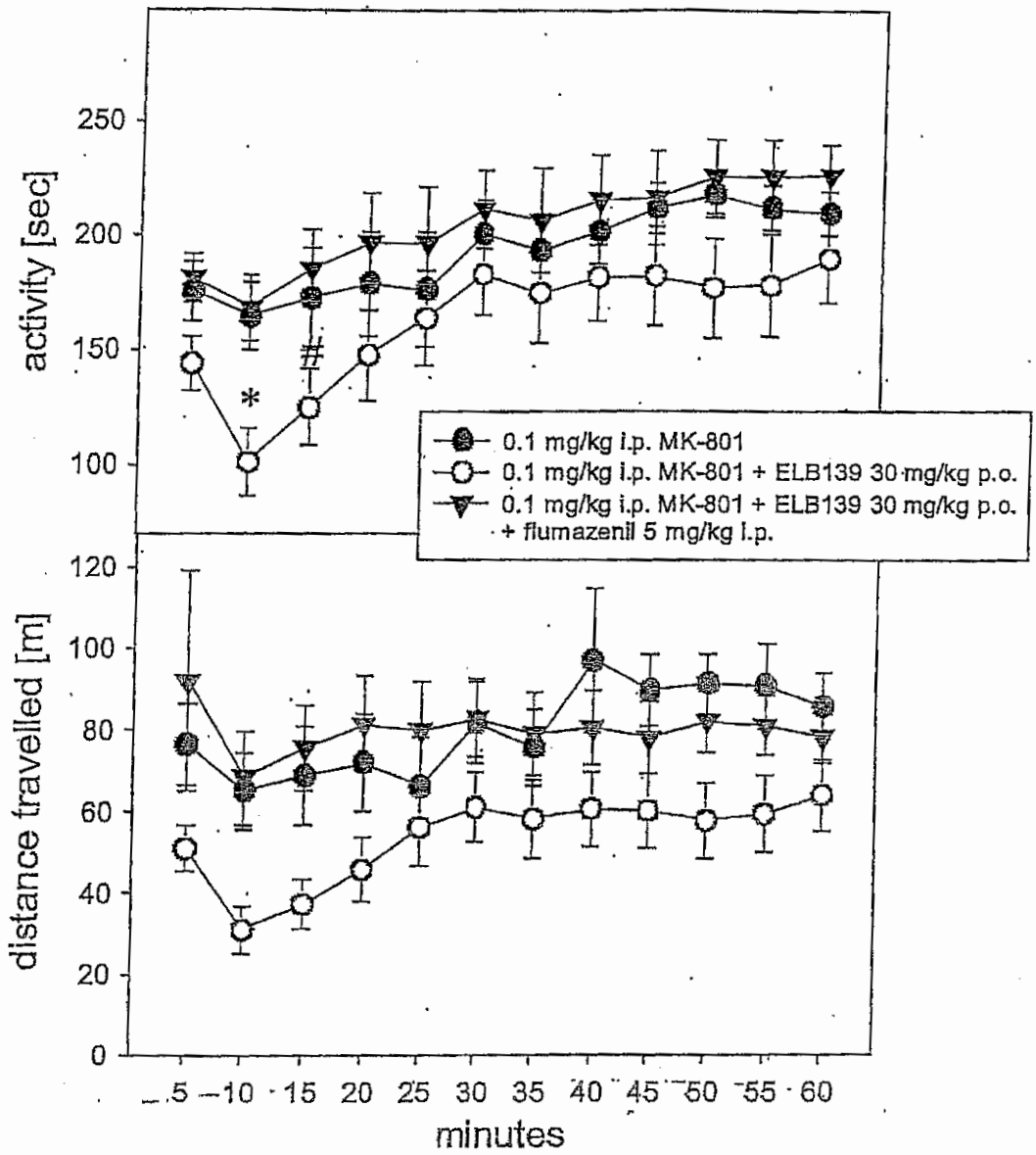

0.1 mg/kg i.p. MK-801
0.1 mg/kg i.p. MK-801 + ELB139 30 mg/kg p.o.
0.1 mg/kg i.p. MK-801 + 30mg/kg p.o. ELB139 + 5 mg/kg i.p. flumazenil
activity [sec]
distance [m]
trial 1
trial 2
sum of trials

Figure 10a

Figure 10b


activity [sec]
250
200
150
100
*
#
0.1 mg/kg i.p. MK-801
0.1 mg/kg i.p. MK-801 + ELB139 30 mg/kg p.o.
0.1 mg/kg i.p. MK-801 + ELB139 30 mg/kg p.o. + flumazenil 5 mg/kg i.p.
distance travelled [m]
120
100
80
60
40
20
0
5 10 15 20 25 30 35 40 45 50 55 60
minutes