FIG 1

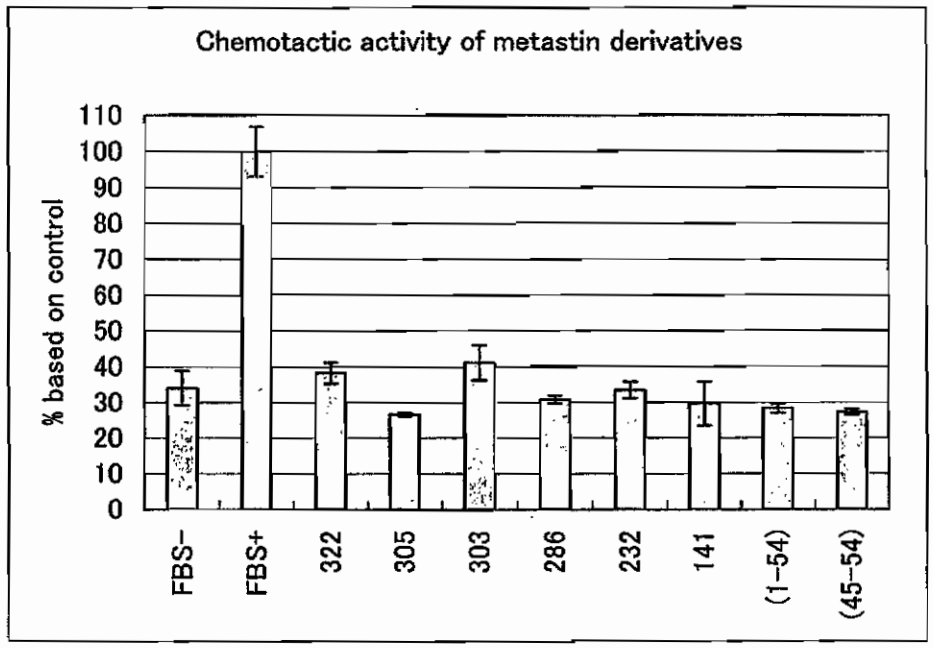

Chemotactic activity of metastin derivatives
% based on control
110
100
90
80
70
60
50
40
30
20
10
0
FBS−
FBS+
322
305
303
286
232
141
(1−54)
(45−54)

FIG 2

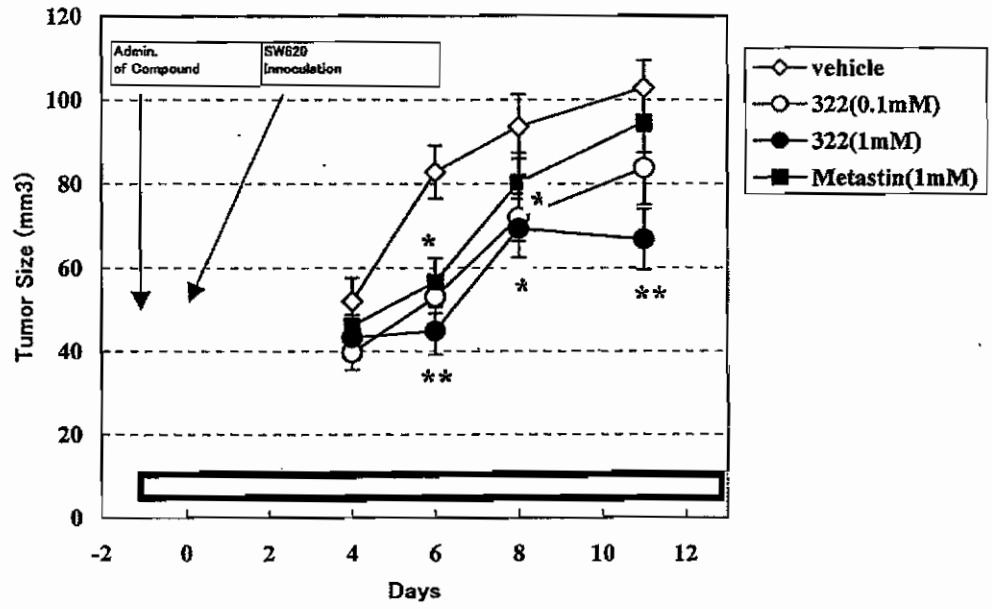

120
100
80
60
40
20
0
Tumor Size (mm3)
-2
0
2
4
6
8
10
12
Days
Admin. of Compound
SW620 Innoculation
vehicle
322(0.1mM)
322(1mM)
Metastin(1mM)
*
**
*
*
**

FIG 3

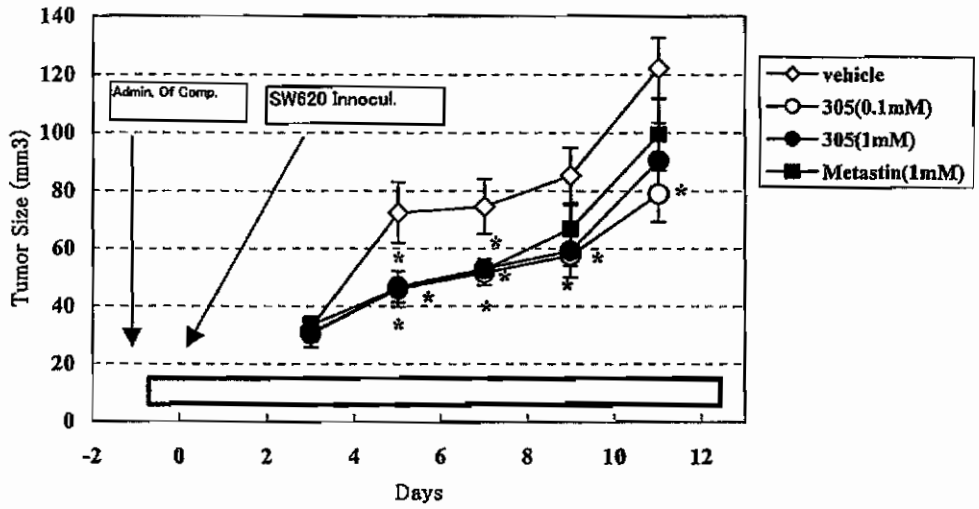

140
120
100
80
60
40
20
0
Tumor Size (mm3)
-2
0
2
4
6
8
10
12
Days
Admin. Of Comp.
SW620 Innocul.
vehicle
305(0.1mM)
305(1mM)
Metastin(1mM)

Fig 4

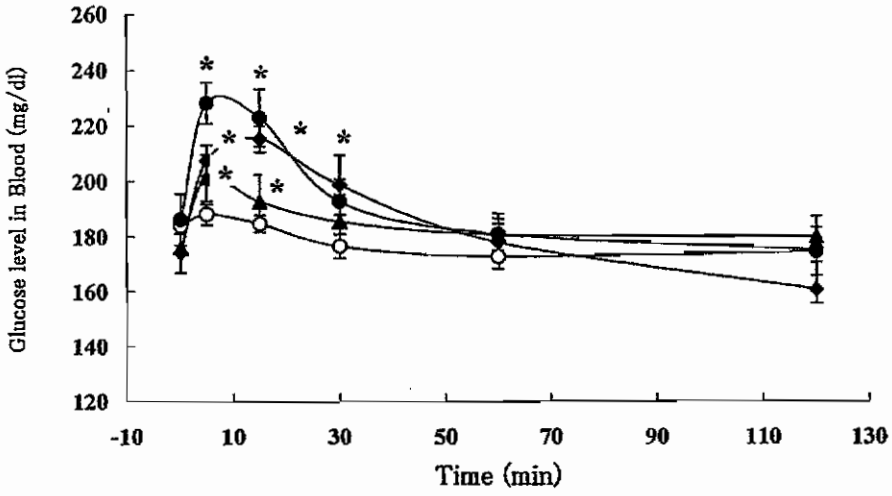

260
240
220
200
180
160
140
120
Glucose level in Blood (mg/dl)
-10
10
30
50
70
90
110
130
Time (min)

FIG 5

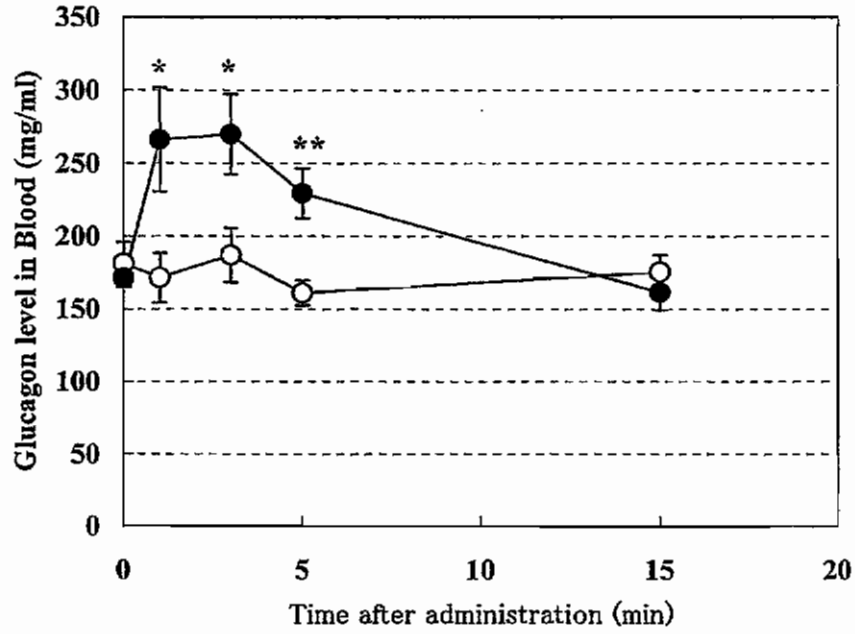

350
300
250
200
150
100
50
0
Glucagon level in Blood (mg/ml)
*
*
**
0
5
10
15
20
Time after administration (min)

FIG 6

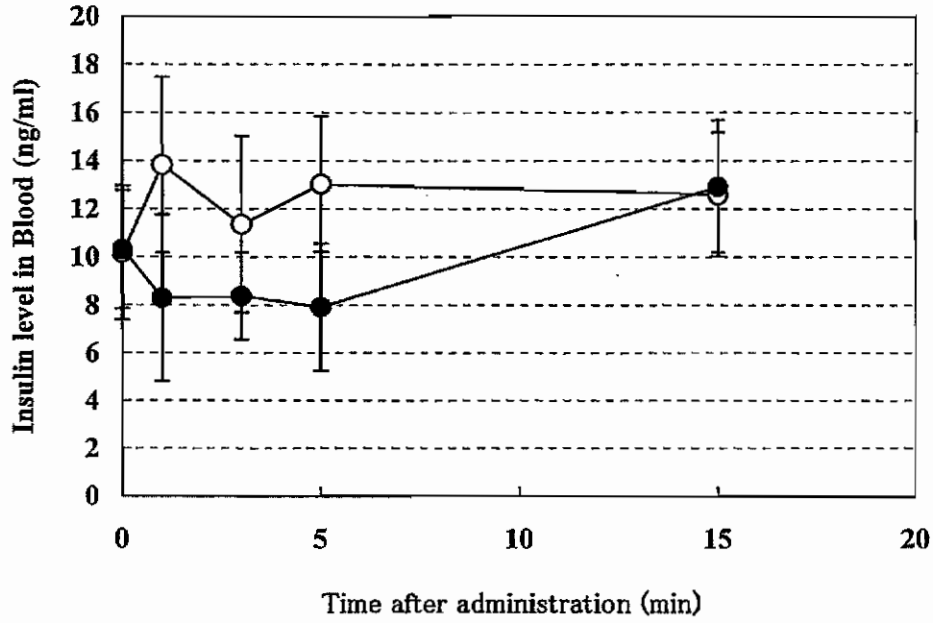

Insulin level in Blood (ng/ml)
20
18
16
14
12
10
8
6
4
2
0
0
5
10
15
20
Time after administration (min)

FIG 7

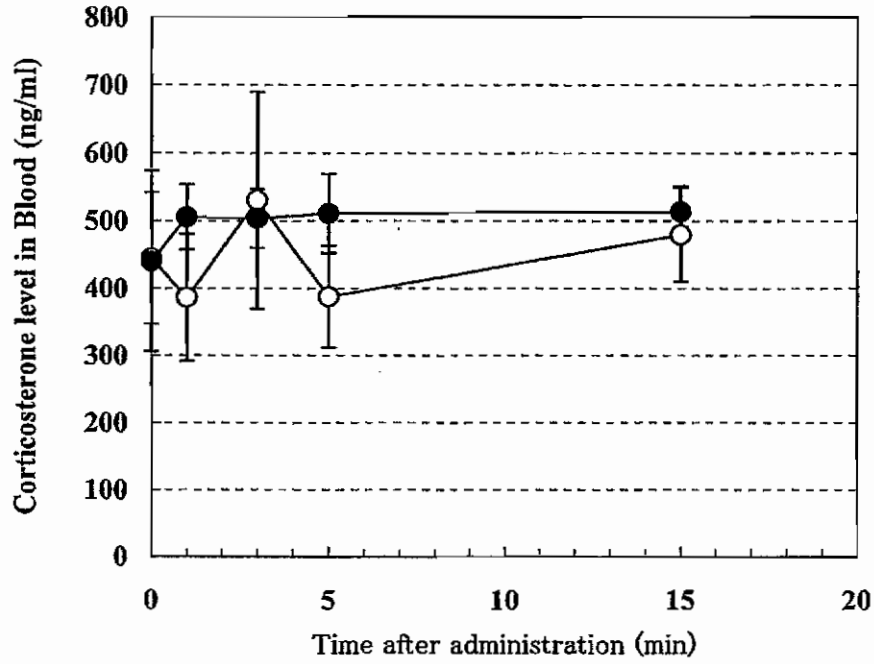

800
700
600
500
400
300
200
100
0
Corticosterone level in Blood (ng/ml)
0
5
10
15
20
Time after administration (min)

FIG 8

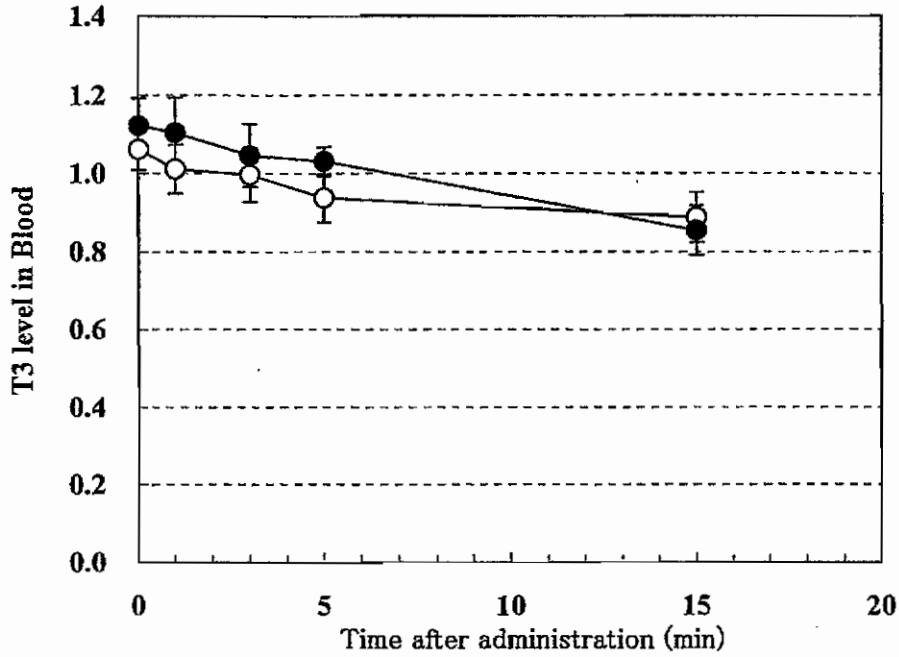

1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
T3 level in Blood
0
5
10
15
20
Time after administration (min)

FIG 9

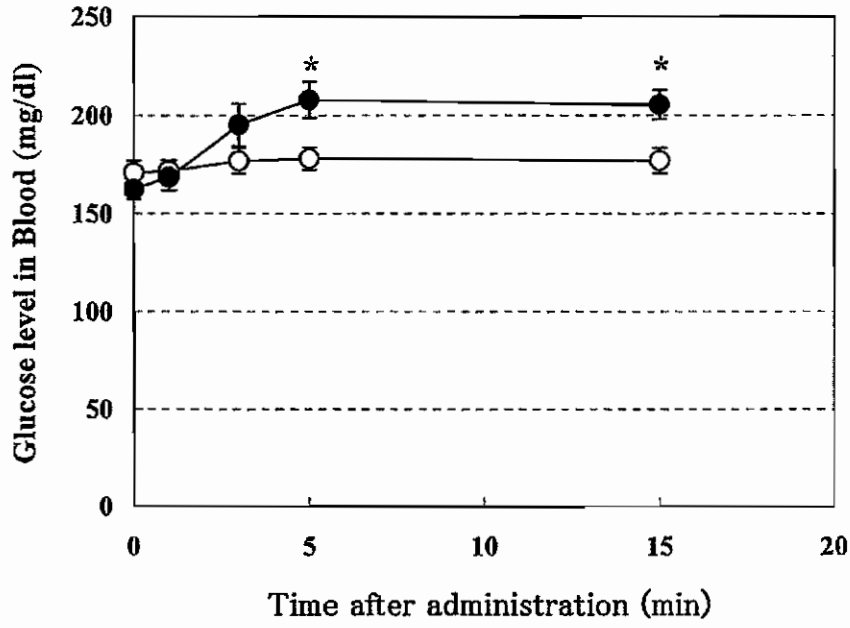

250
200
150
100
50
0
Glucose level in Blood (mg/dl)
*
*
0
5
10
15
20
Time after administration (min)

FIG 10

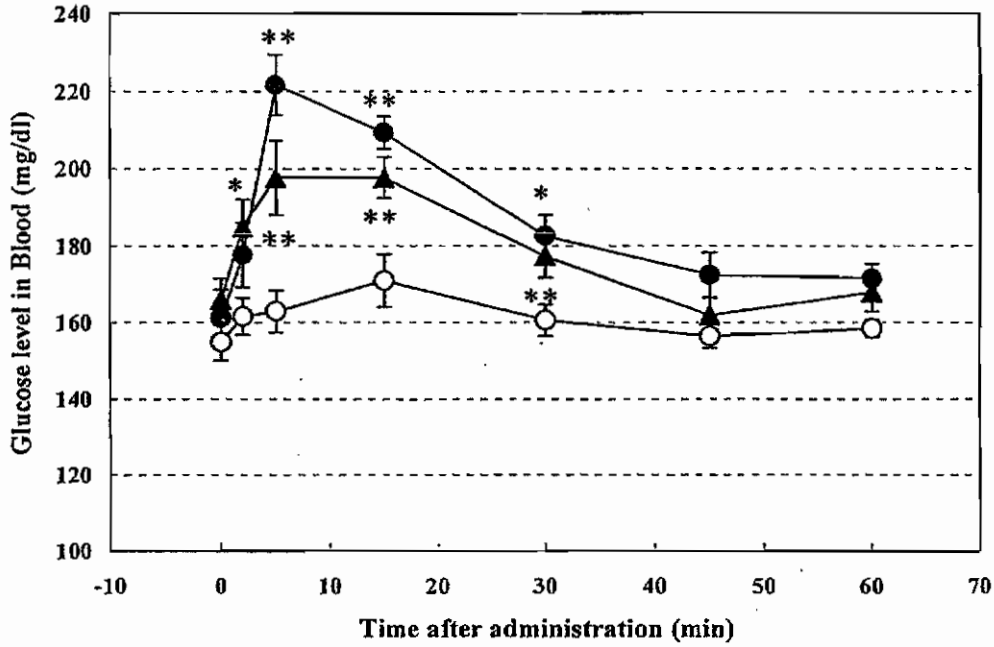

240
220
200
180
160
140
120
100
Glucose level in Blood (mg/dl)
-10
0
10
20
30
40
50
60
70
Time after administration (min)
**
**
*
**
**
*
**

FIG 11

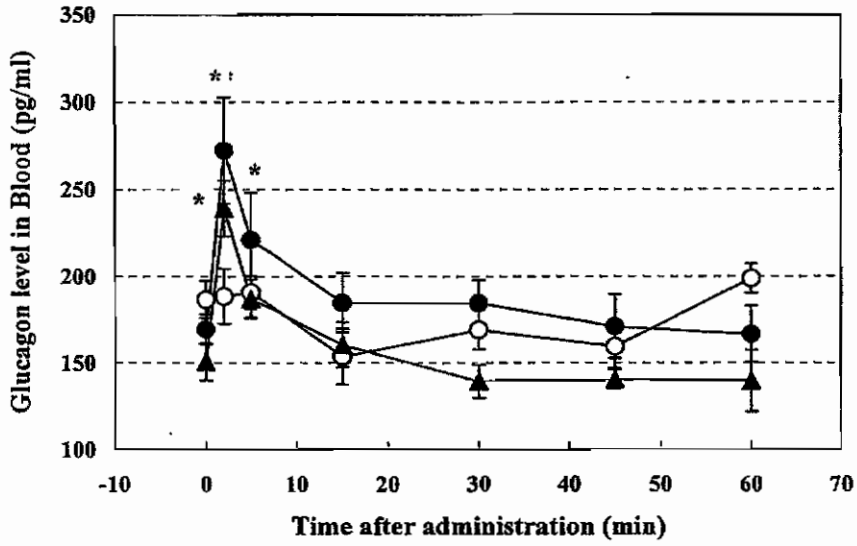

350
300
250
200
150
100
Glucagon level in Blood (pg/ml)
-10
0
10
20
30
40
50
60
70
Time after administration (min)
*
*
*

FIG 12

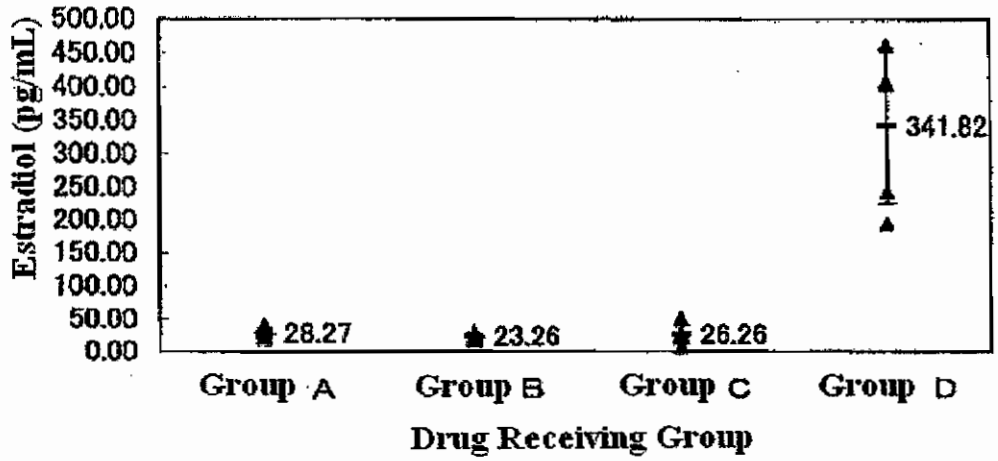

Estradiol (pg/mL)
500.00
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
28.27
23.26
26.26
341.82
Group A
Group B
Group C
Group D
Drug Receiving Group

FIG 13

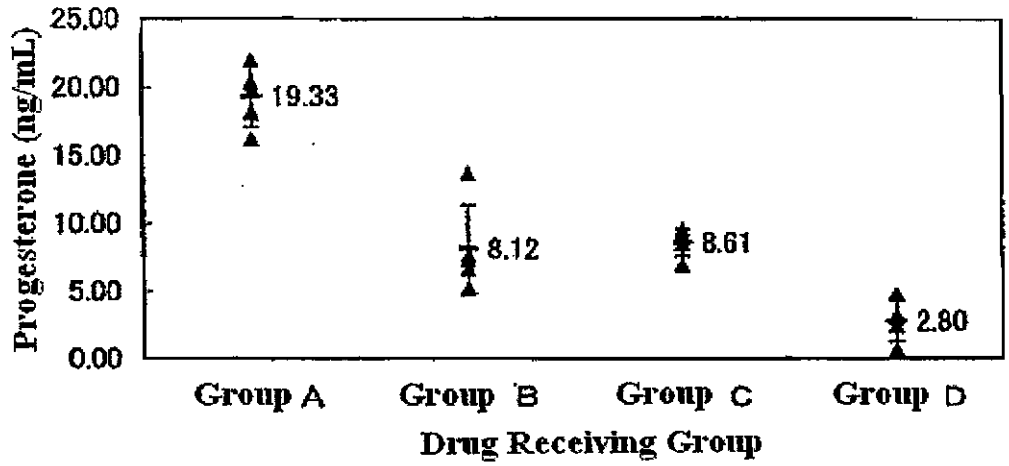

25.00
20.00
15.00
10.00
5.00
0.00
Progesterone (ng/mL)
19.33
8.12
8.61
2.80
Group A
Group B
Group C
Group D
Drug Receiving Group

FIG 14

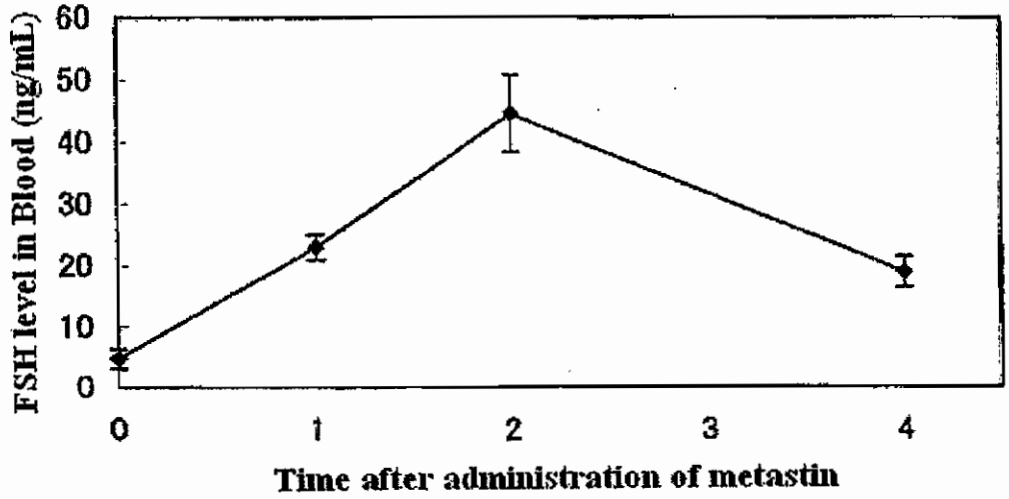

FSH level in Blood (ng/mL)
60
50
40
30
20
10
0
0
1
2
3
4
Time after administration of metastin

FIG 15

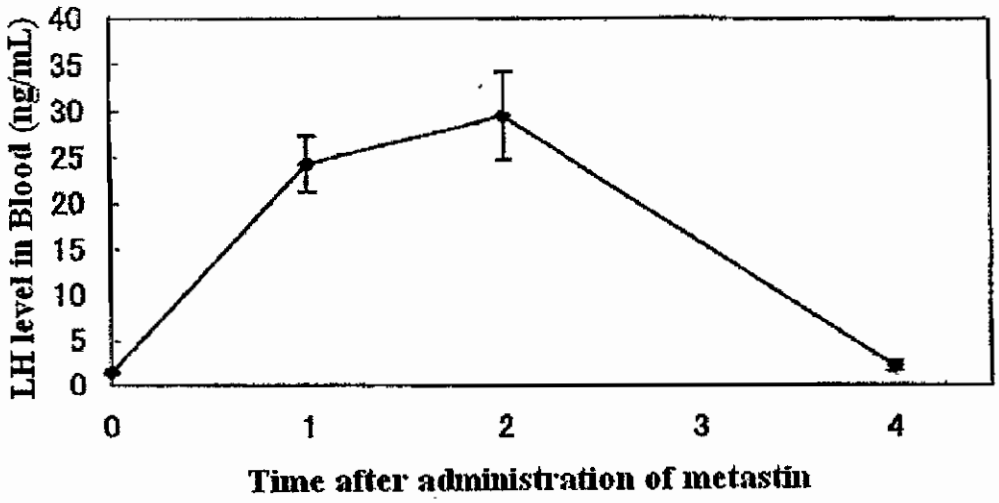

LH level in Blood (ng/mL)
40
35
30
25
20
15
10
5
0
0
1
2
3
4
Time after administration of metastin

FIG 16

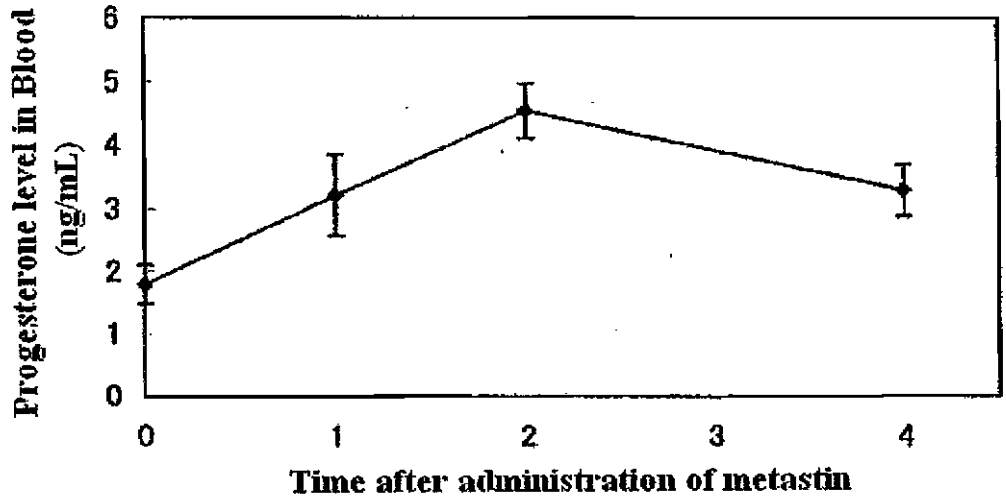

Progesterone level in Blood (ng/mL)
6
5
4
3
2
1
0
0
1
2
3
4
Time after administration of metastin

FIG 17

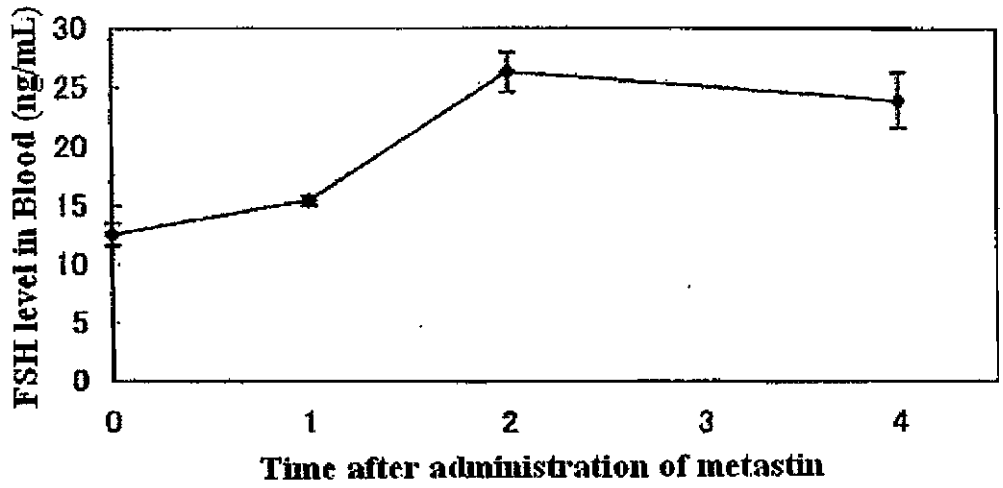

FSH level in Blood (ng/mL)
30
25
20
15
10
5
0
0
1
2
3
4
Time after administration of metastin

FIG 18

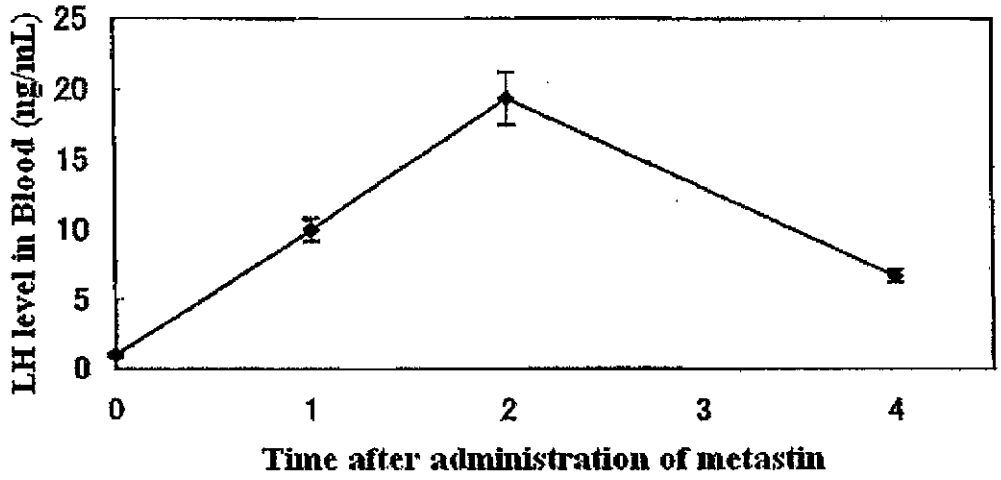

LH level in Blood (ng/mL)
25
20
15
10
5
0
0
1
2
3
4
Time after administration of metastin

FIG 19

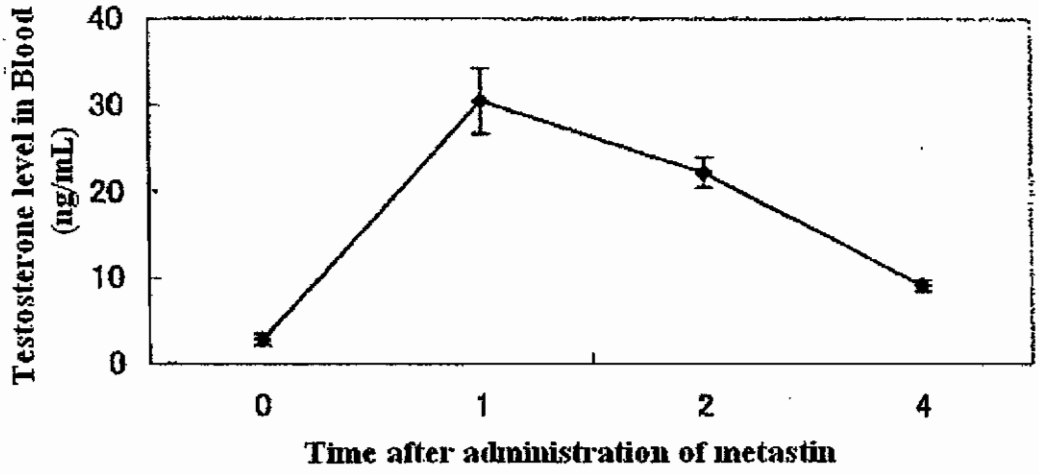

Testosterone level in Blood (ng/mL)
40
30
20
10
0
0
1
2
4
Time after administration of metastin

FIG 20

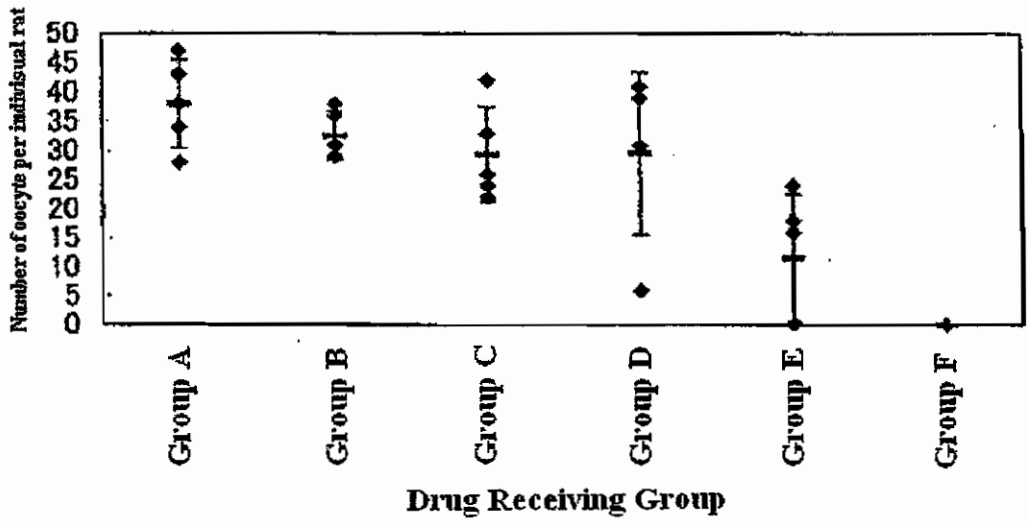

Number of oocyte per individual rat
50
45
40
35
30
25
20
15
10
5
0
Group A
Group B
Group C
Group D
Group E
Group F
Drug Receiving Group

FIG 21

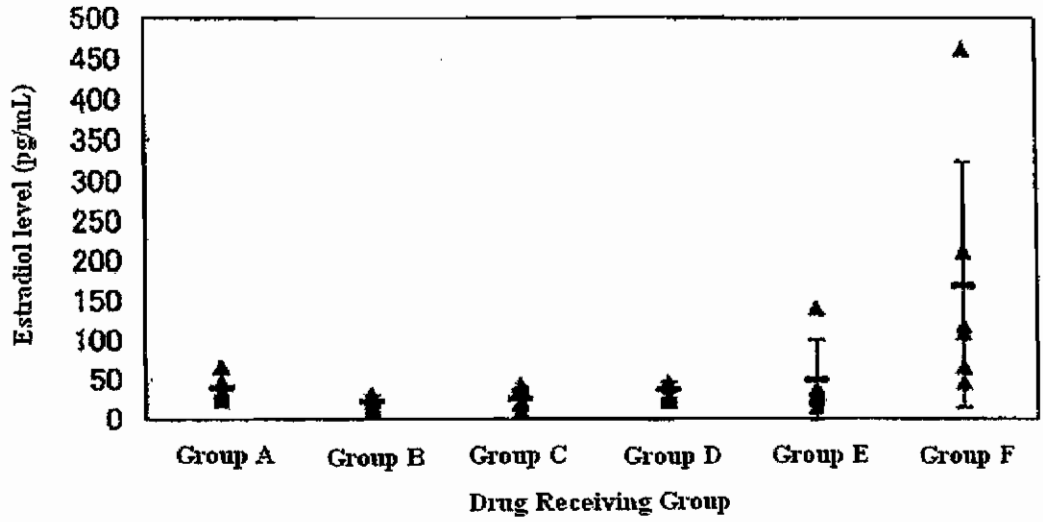
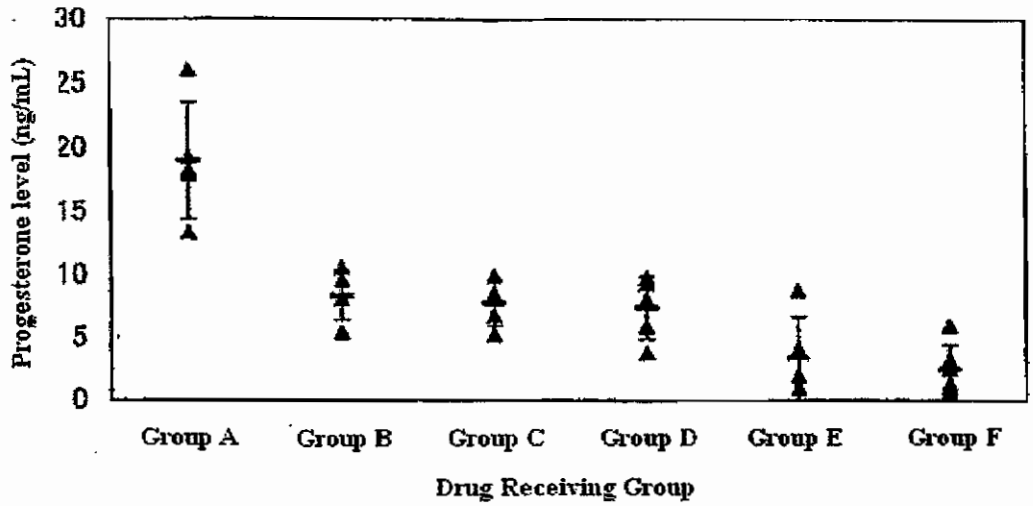

500
450
400
350
300
250
200
150
100
50
0
Estradiol level (pg/mL)
Group A
Group B
Group C
Group D
Group E
Group F
Drug Receiving Group

FIG 22


30
25
20
15
10
5
0
Progesterone level (ng/mL)
Group A
Group B
Group C
Group D
Group E
Group F
Drug Receiving Group