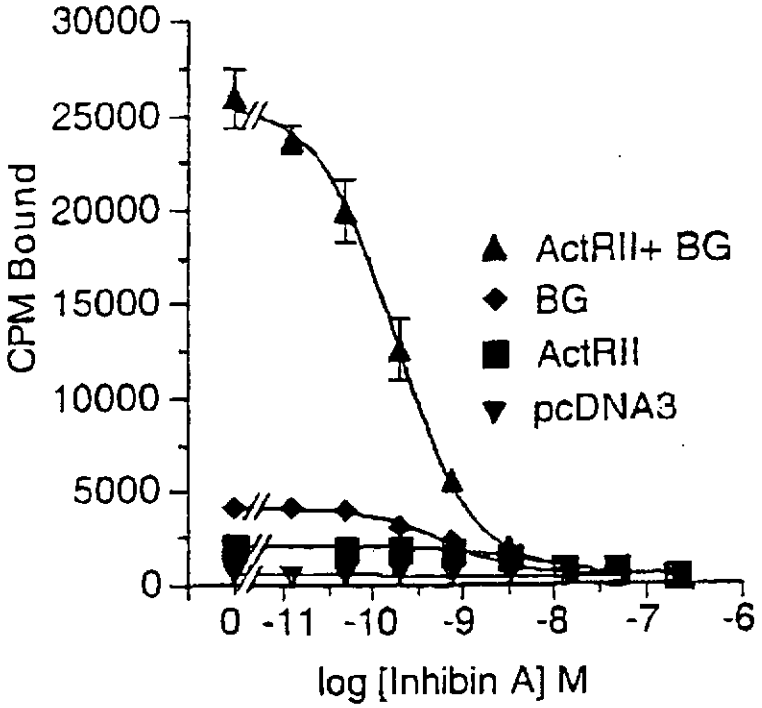

30000
25000
20000
15000
10000
5000
0
CPM Bound
ActRII+ BG
BG
ActRII
pcDNA3
0 -11 -10 -9 -8 -7 -6
log [Inhibin A] M

Fig. 1A

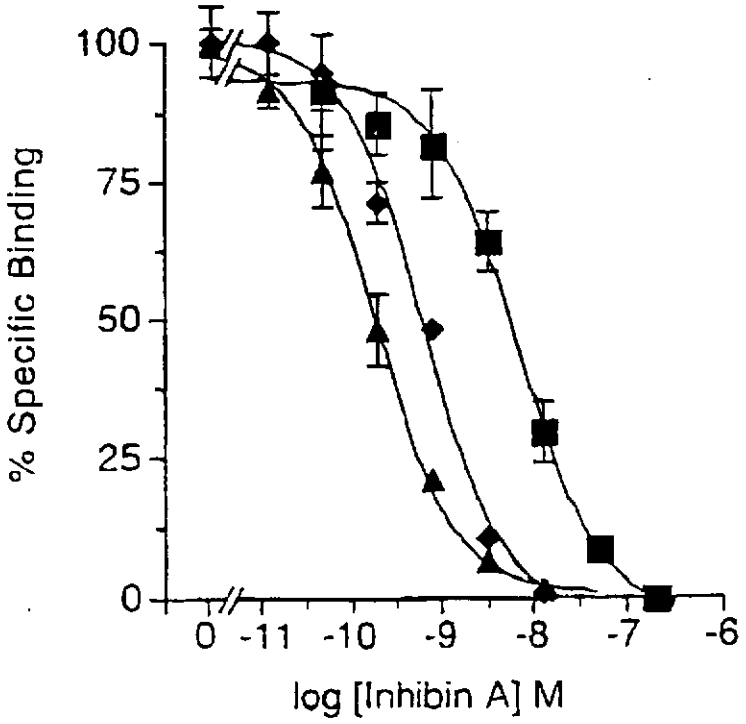

100
75
50
25
0
% Specific Binding
0 -11 -10 -9 -8 -7 -6
log [Inhibin A] M

Fig. 1B

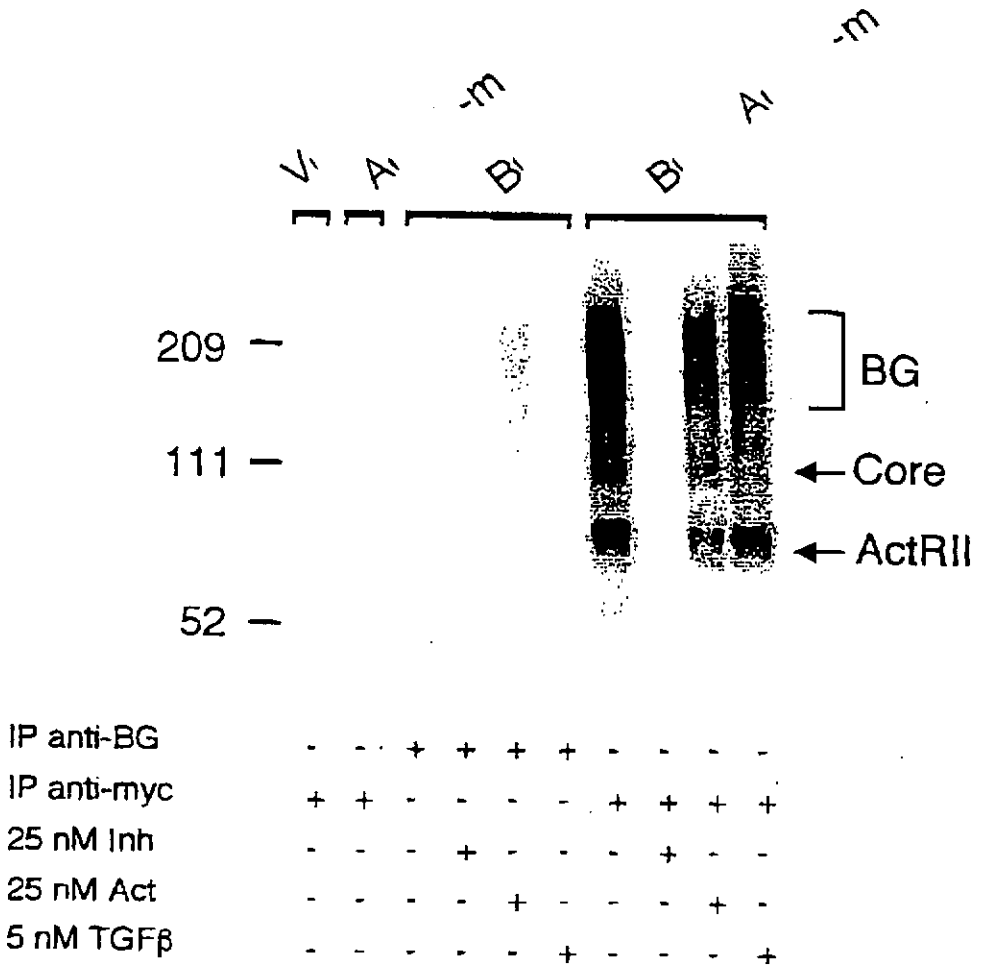

V-m
A-m
B-m
B'
A'
209
111
52
BG
Core
ActRII
IP anti-BG - - + + + + - - - -
IP anti-myc + + - - - - + + + +
25 nM Inh - - - + - - - + - -
25 nM Act - - - - + - - - + -
5 nM TGFβ - - - - - + - - - +

Fig. 2A

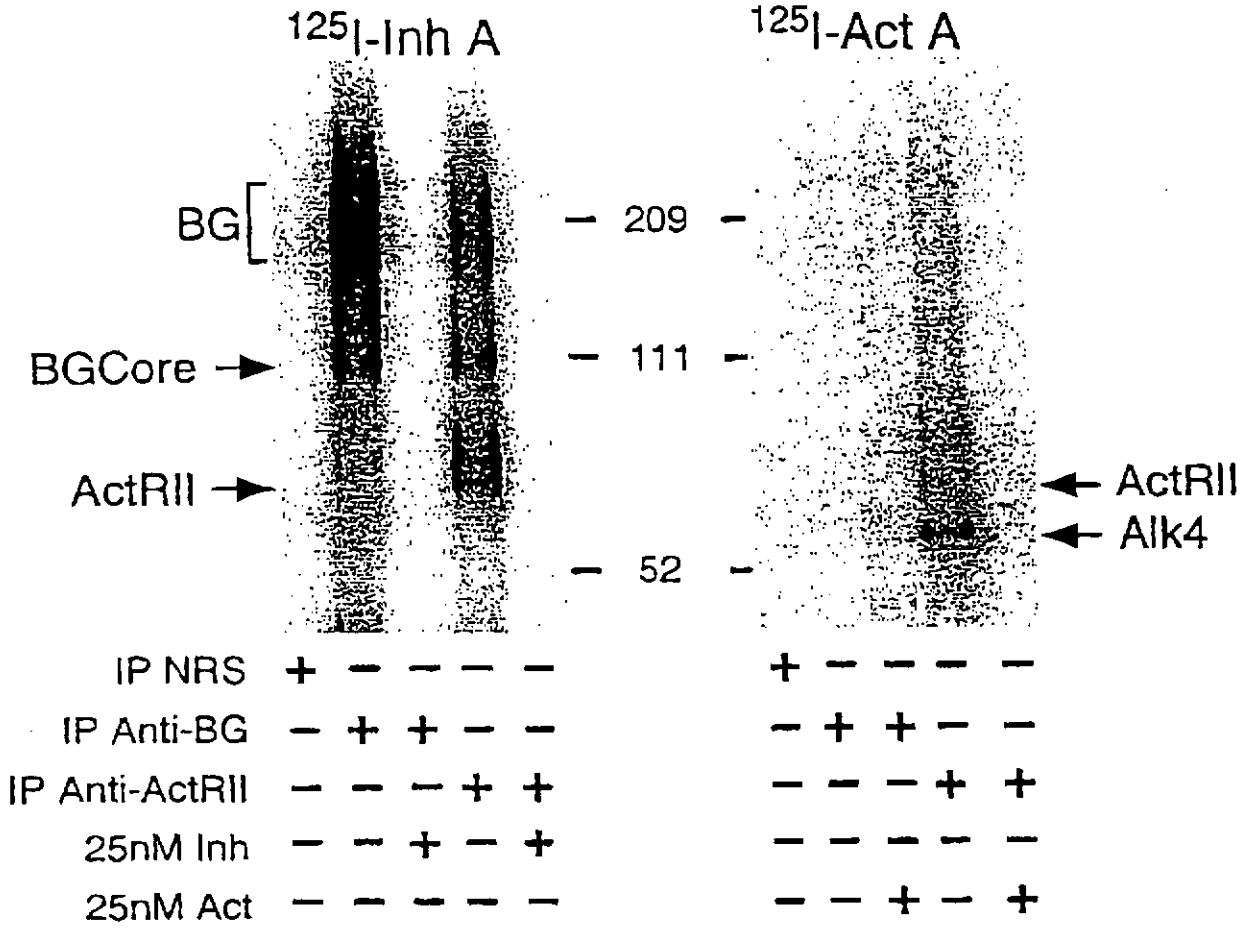

125I-Inh A
125I-Act A
BG
BGCore
ActRII
209
111
52
ActRII
Alk4
IP NRS + − − − − + − − − −
IP Anti-BG − + + − − − + + − −
IP Anti-ActRII − − − + + − − − + +
25nM Inh − − + − + − − − − −
25nM Act − − − − − − − + − +

Fig. 2B

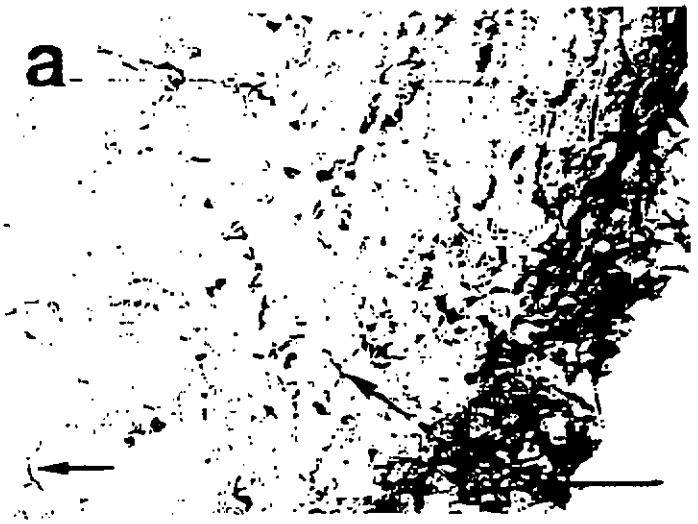


Fig. 3A

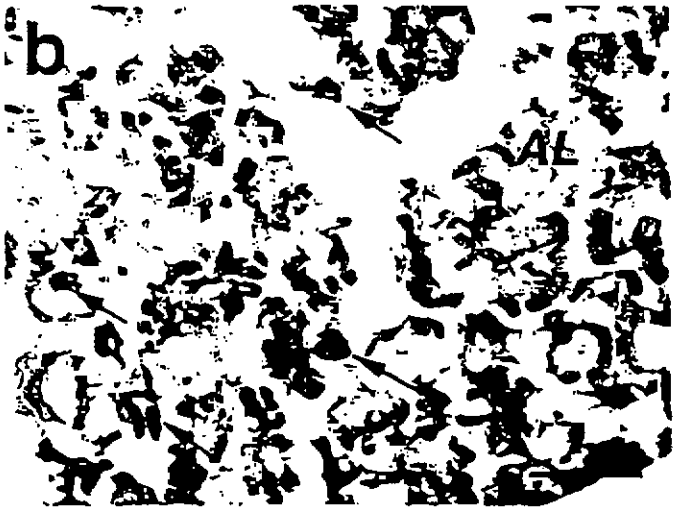


Fig. 3B

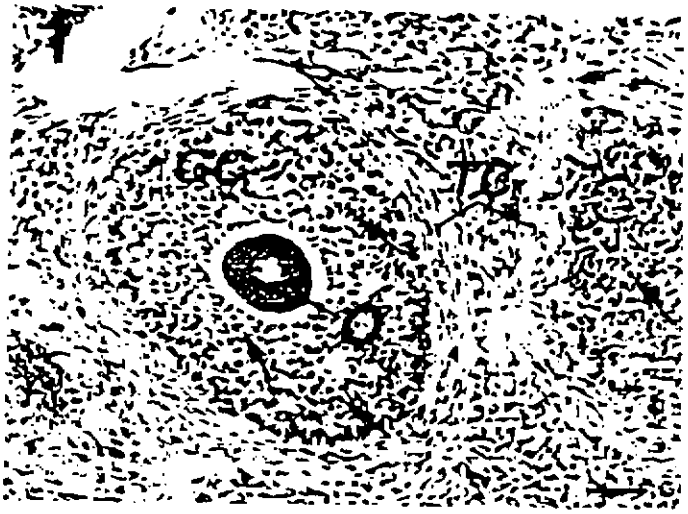




Fig. 3D



Fig. 3E



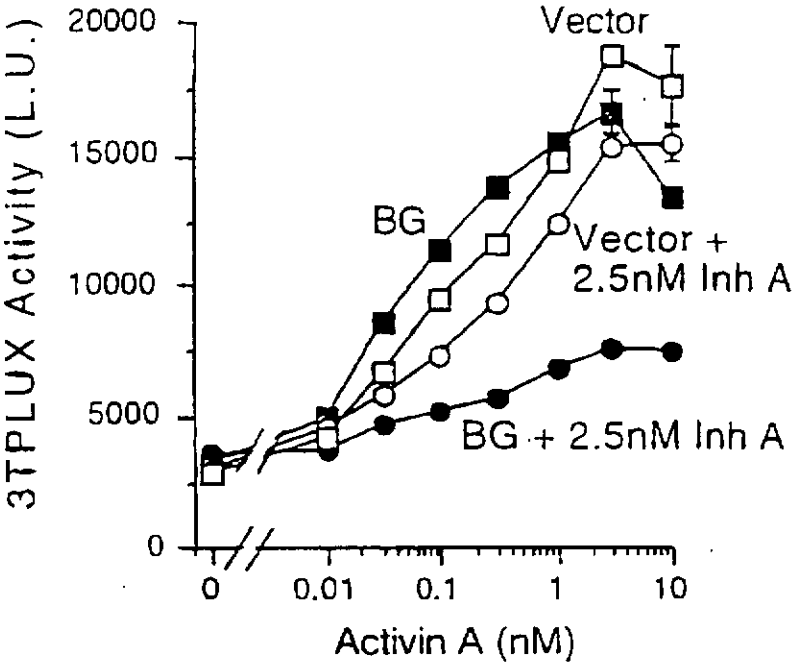

3TPLUX Activity (L.U.)
20000
15000
10000
5000
0
Vector
BG
Vector +
2.5nM Inh A
BG + 2.5nM Inh A
0
0.01
0.1
1
10
Activin A (nM)

Fig. 4A

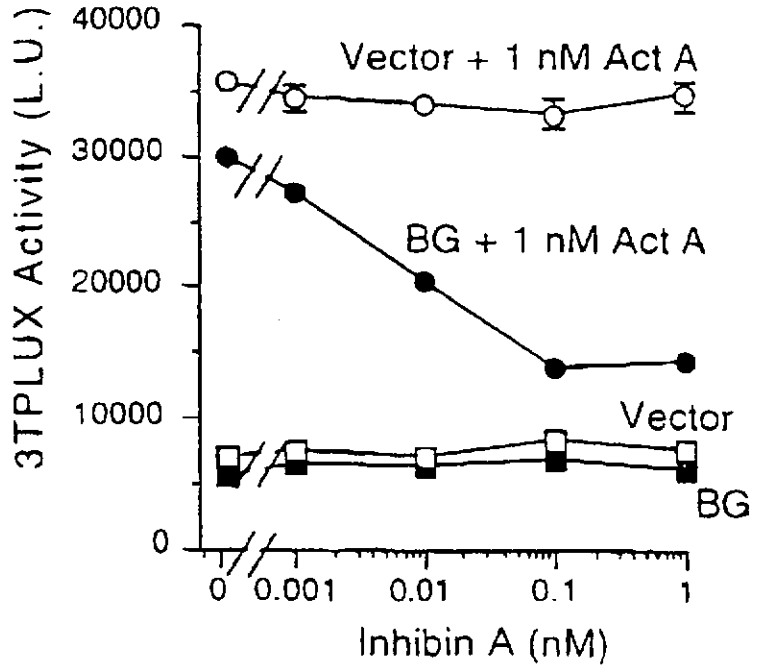

3TPLUX Activity (L.U.)
40000
30000
20000
10000
0
Vector + 1 nM Act A
BG + 1 nM Act A
Vector
BG
0
0.001
0.01
0.1
1
Inhibin A (nM)

Fig. 4B

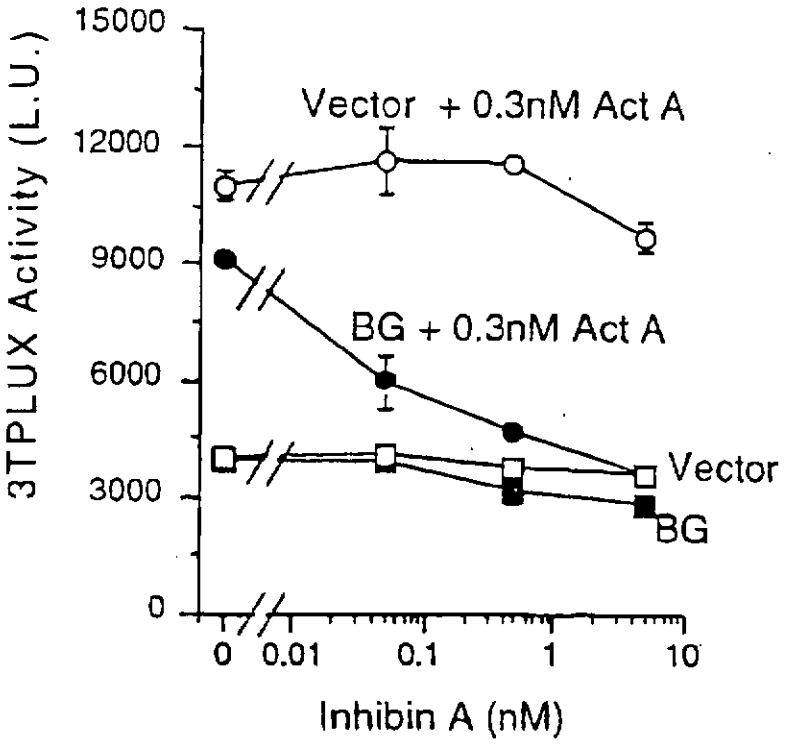

15000
12000
9000
6000
3000
0
3TPLUX Activity (L.U.)
Vector + 0.3nM Act A
BG + 0.3nM Act A
Vector
BG
0
0.01
0.1
1
10
Inhibin A (nM)

Fig. 4C

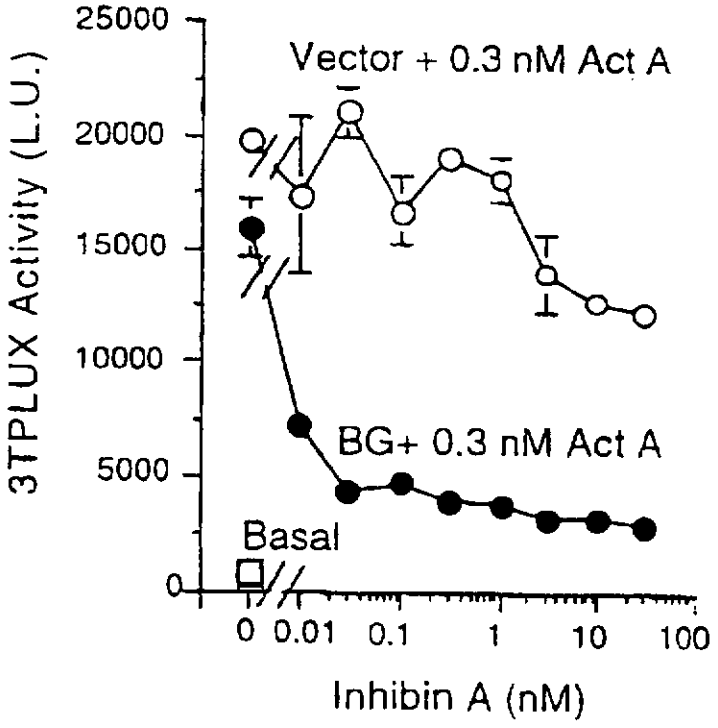

25000
20000
15000
10000
5000
0
3TPLUX Activity (L.U.)
Vector + 0.3 nM Act A
BG+ 0.3 nM Act A
Basal
0
0.01
0.1
1
10
100
Inhibin A (nM)

Fig. 4D

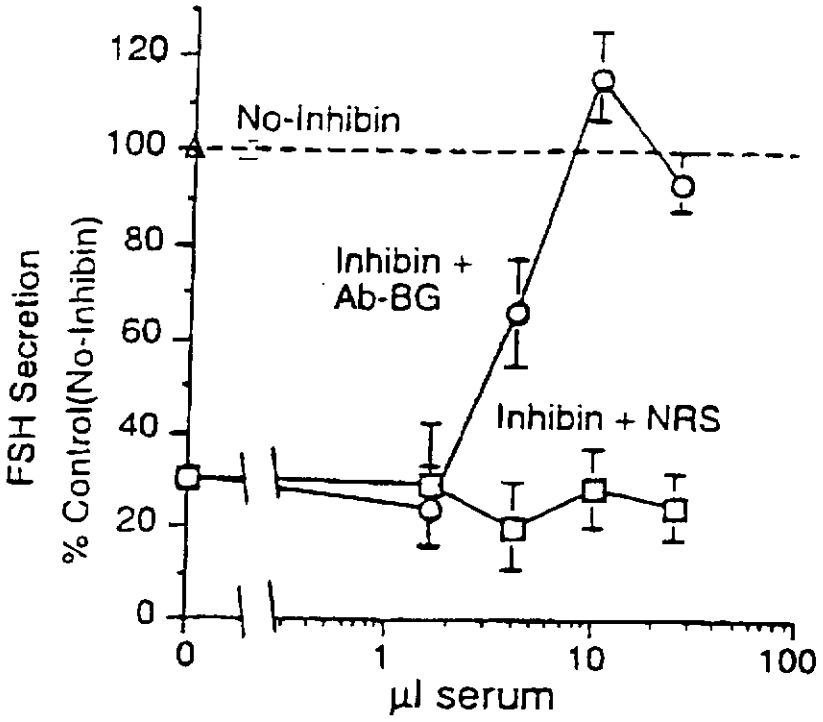

120
100
80
60
40
20
0
No-Inhibin
Inhibin +
Ab-BG
Inhibin + NRS
FSH Secretion
% Control(No-Inhibin)
0
1
10
100
µl serum

Fig. 5

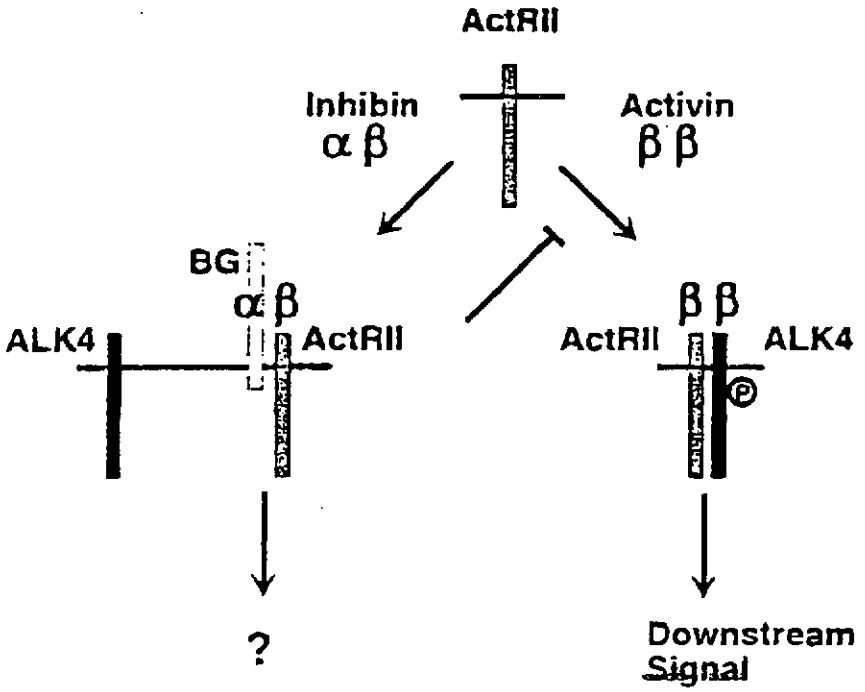

ActRII
Inhibin
α β
Activin
β β
BG
α β
ALK4
ActRII
β β
ActRII
ALK4
P
?
Downstream
Signal

Fig. 6