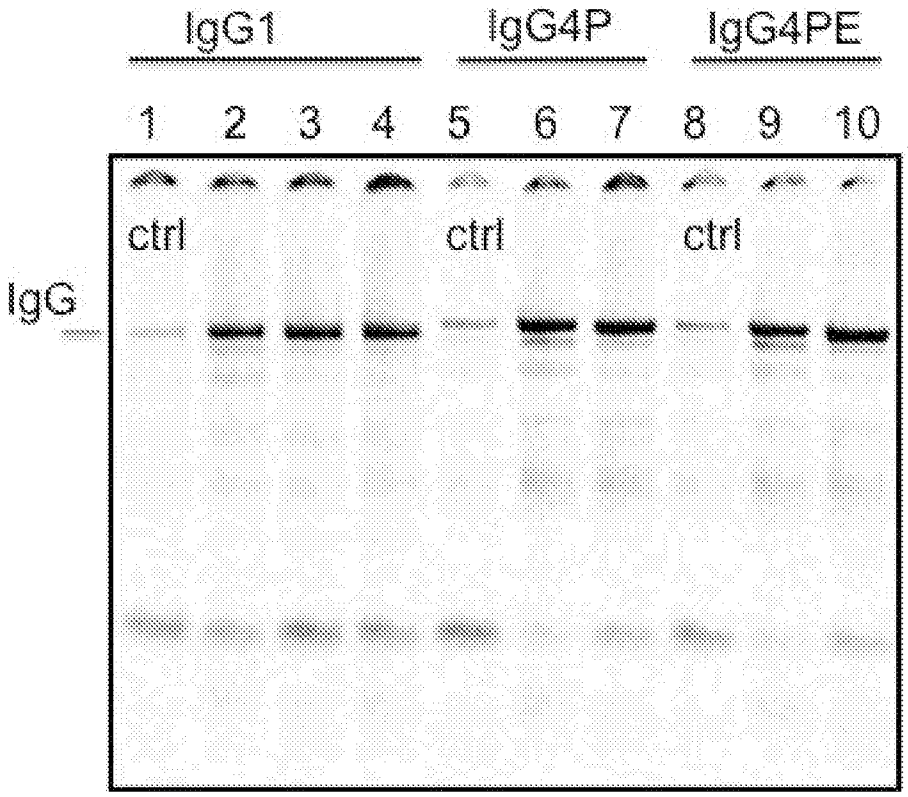
IgG1
IgG4P
IgG4PE
1 2 3 4 5 6 7 8 9 10
ctrl
ctrl
ctrl
IgG

Fig. 1A

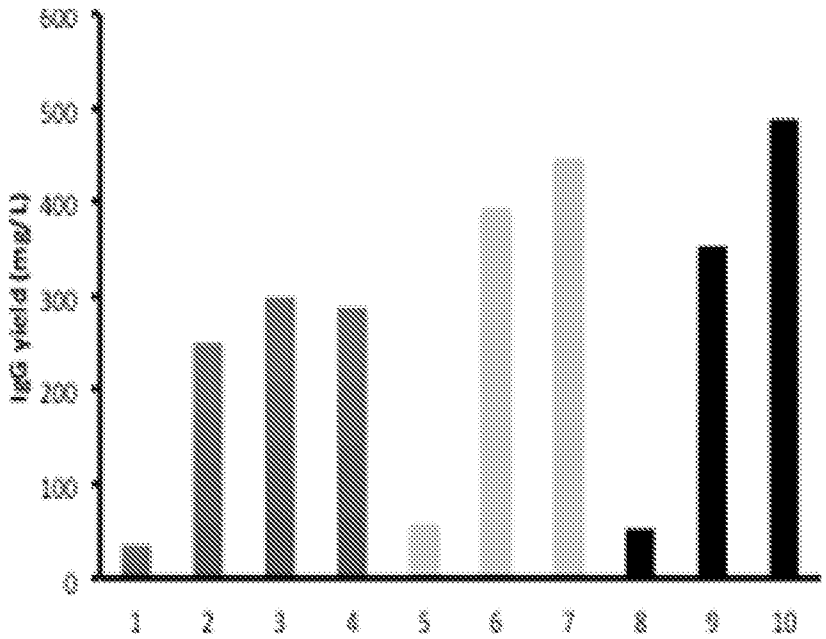
600
500
400
300
200
100
0
1 2 3 4 5 6 7 8 9 10

Fig. 1B

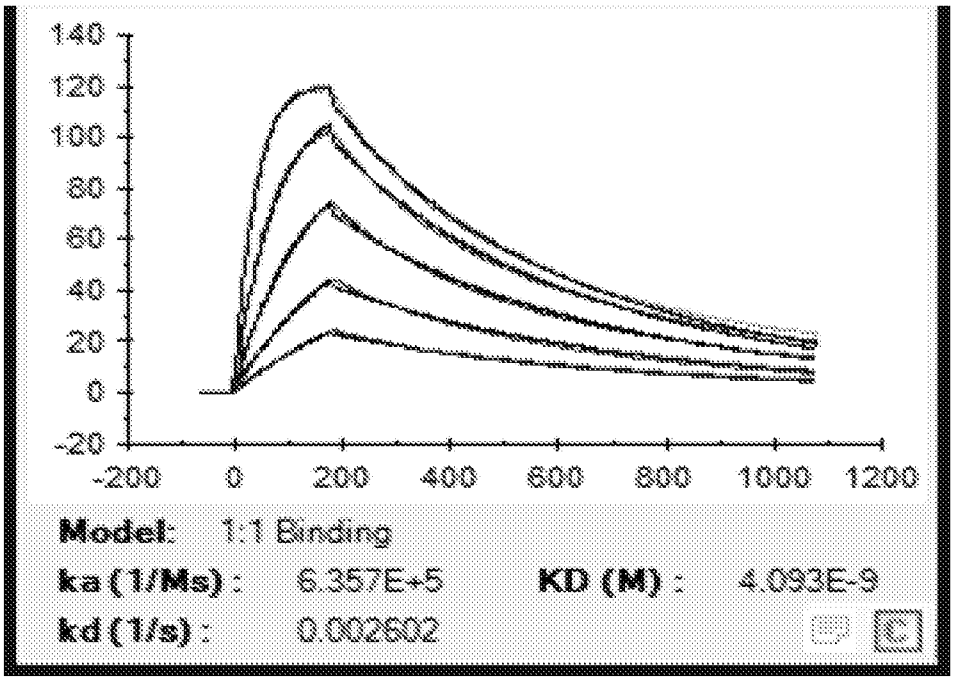
140
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms) : 6.357E+5
KD (M) : 4.093E-9
kd (1/s) : 0.002602

Fig. 2A

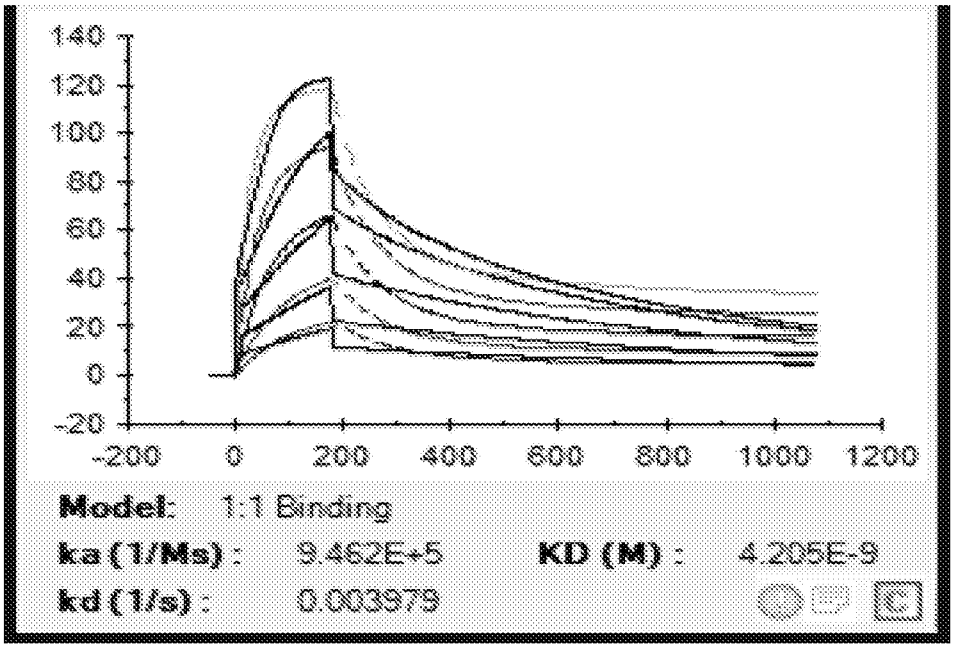
140
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms) : 9.462E+5
KD (M) : 4.205E-9
kd (1/s) : 0.003979

Fig. 2B

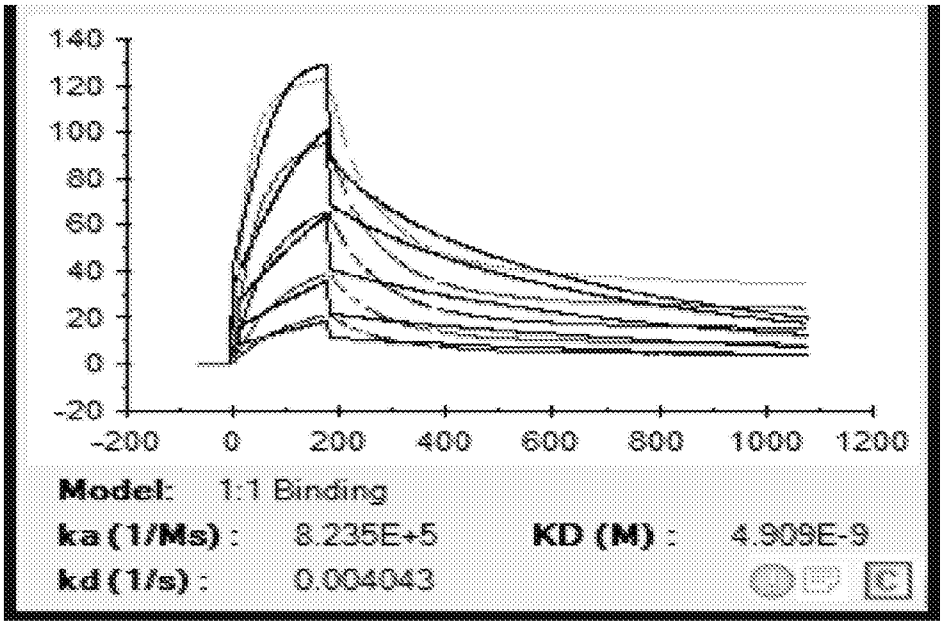
140
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms) : 8.235E+5
KD (M) : 4.909E-9
kd (1/s) : 0.004043

Fig. 2C

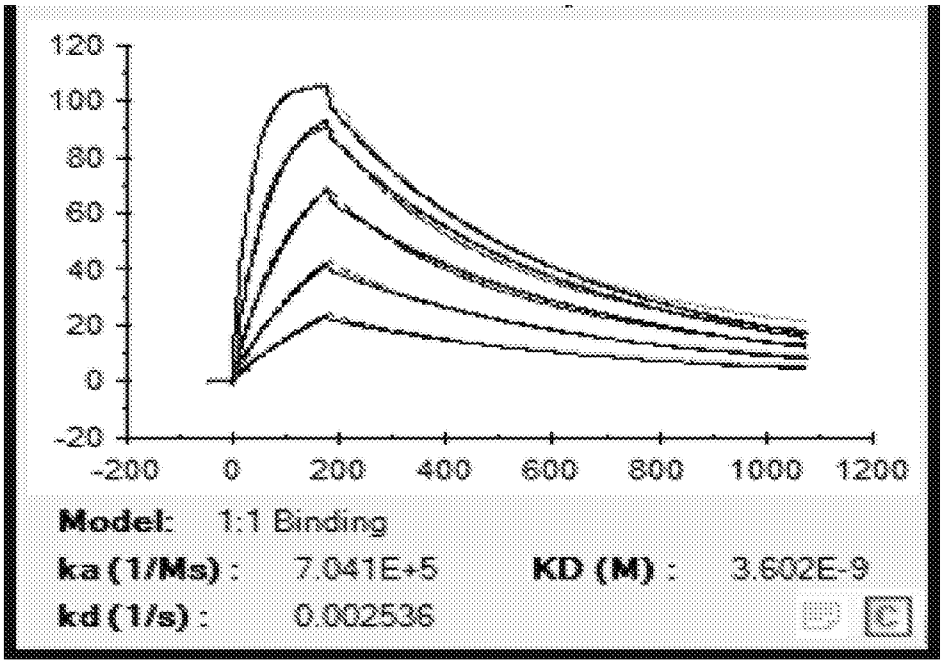
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms) : 7.041E+5
KD (M) : 3.602E-9
kd (1/s) : 0.002536

Fig. 2D

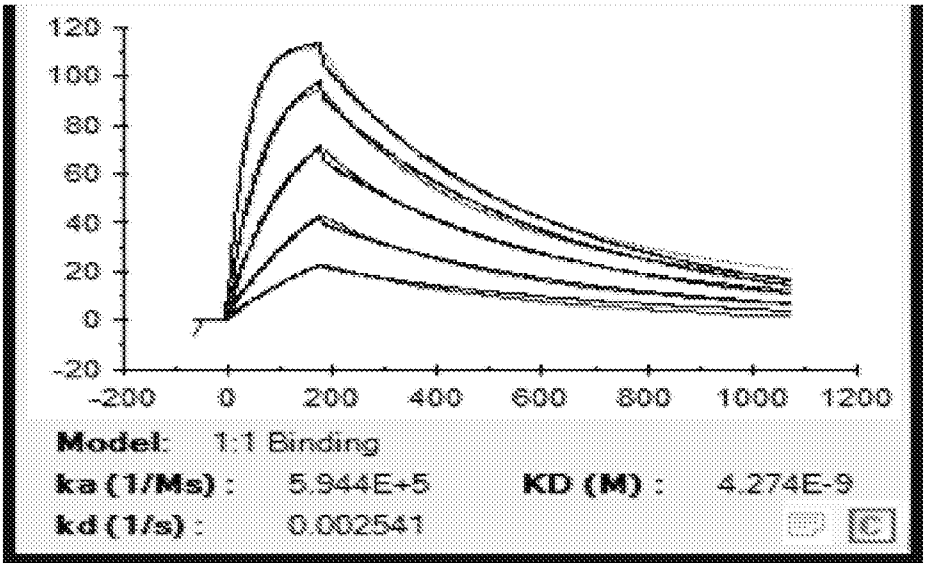
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms): 5.944E+5
KD (M): 4.274E-9
kd (1/s): 0.002541

Fig. 2E

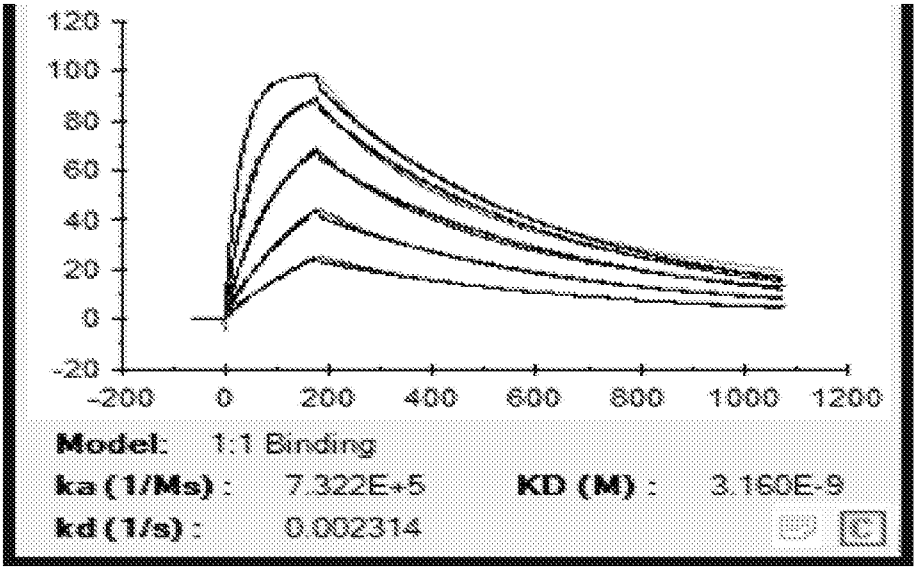
120
100
80
60
40
20
0
-20
-200
0
200
400
600
800
1000
1200
Model: 1:1 Binding
ka (1/Ms): 7.322E+5
KD (M): 3.160E-9
kd (1/s): 0.002314

Fig. 2F

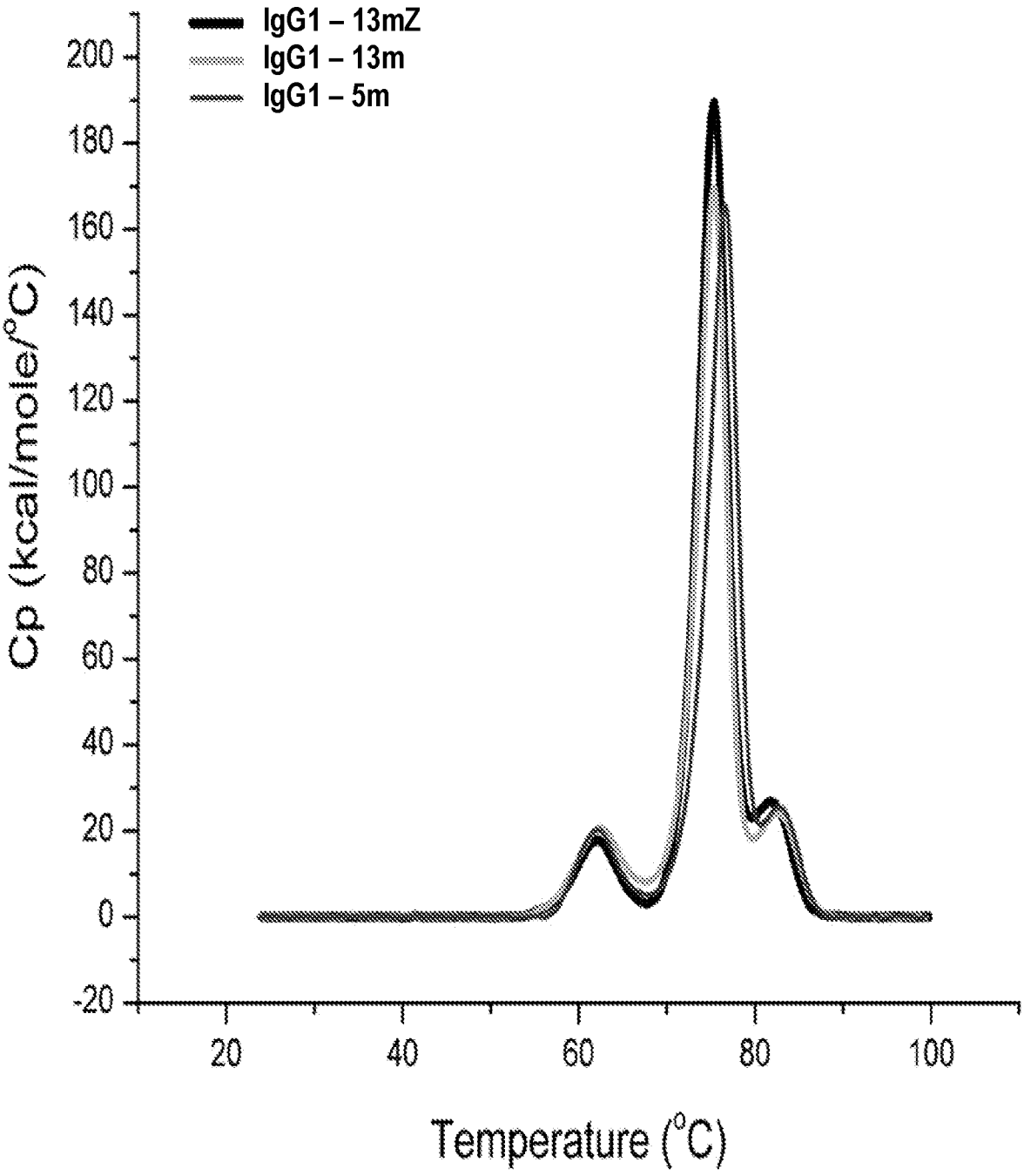
IgG1 – 13mZ
IgG1 – 13m
IgG1 – 5m
Cp (kcal/mole/°C)
200
180
160
140
120
100
80
60
40
20
0
-20
20
40
60
80
100
Temperature (°C)

Fig. 3A

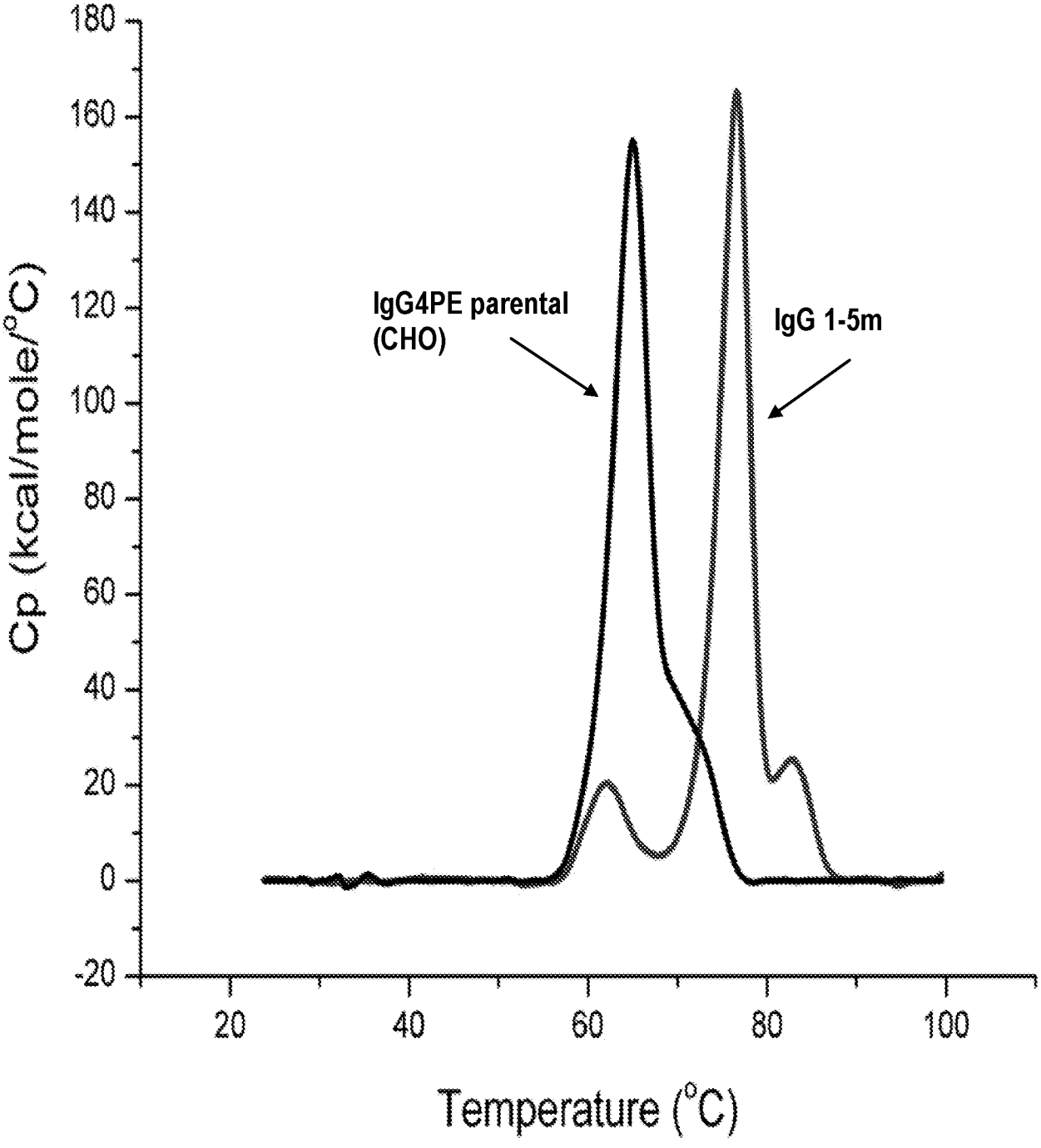
180
160
140
120
100
80
60
40
20
0
-20
Cp (kcal/mole/°C)
20
40
60
80
100
Temperature (°C)
IgG4PE parental
(CHO)
IgG 1-5m

Fig. 3B

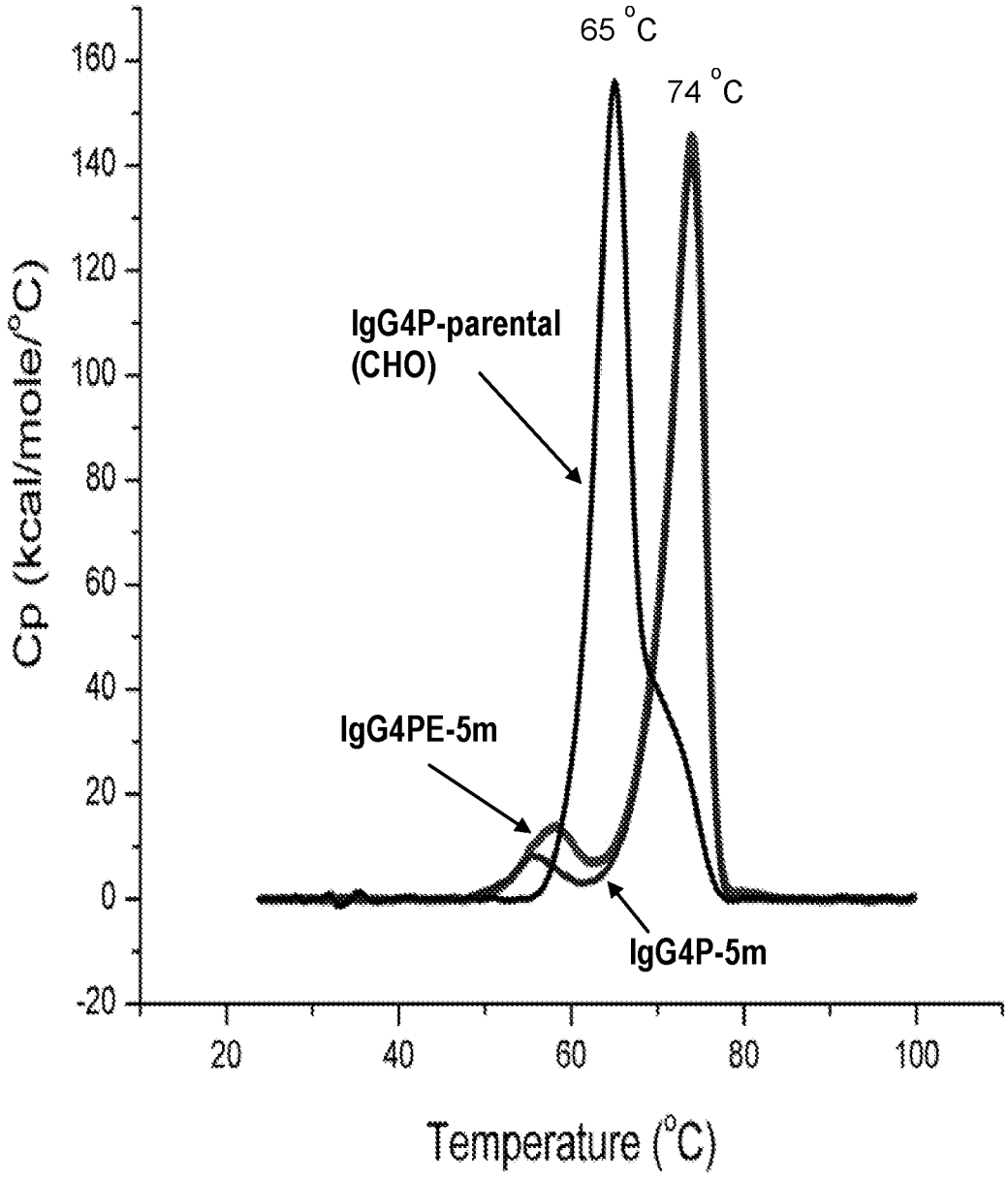
65 °C
74 °C
IgG4P-parental
(CHO)
IgG4PE-5m
IgG4P-5m
Cp (kcal/mole/°C)
Temperature (°C)
160
140
120
100
80
60
40
20
0
-20
20
40
60
80
100

Fig. 3C

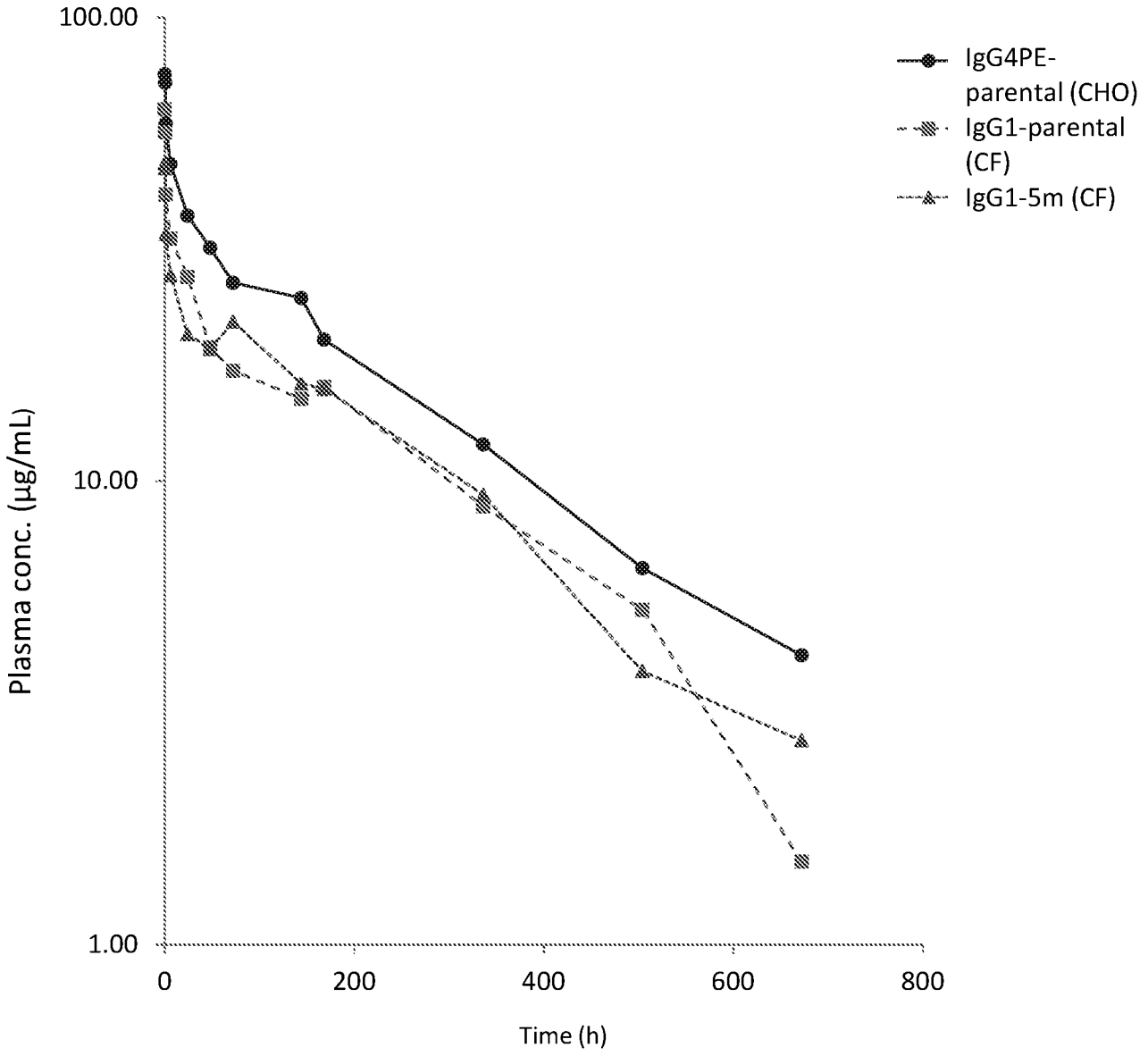
100.00
10.00
1.00
Plasma conc. (µg/mL)
0
200
400
600
800
Time (h)
IgG4PE-parental (CHO)
IgG1-parental (CF)
IgG1-5m (CF)

Fig. 4

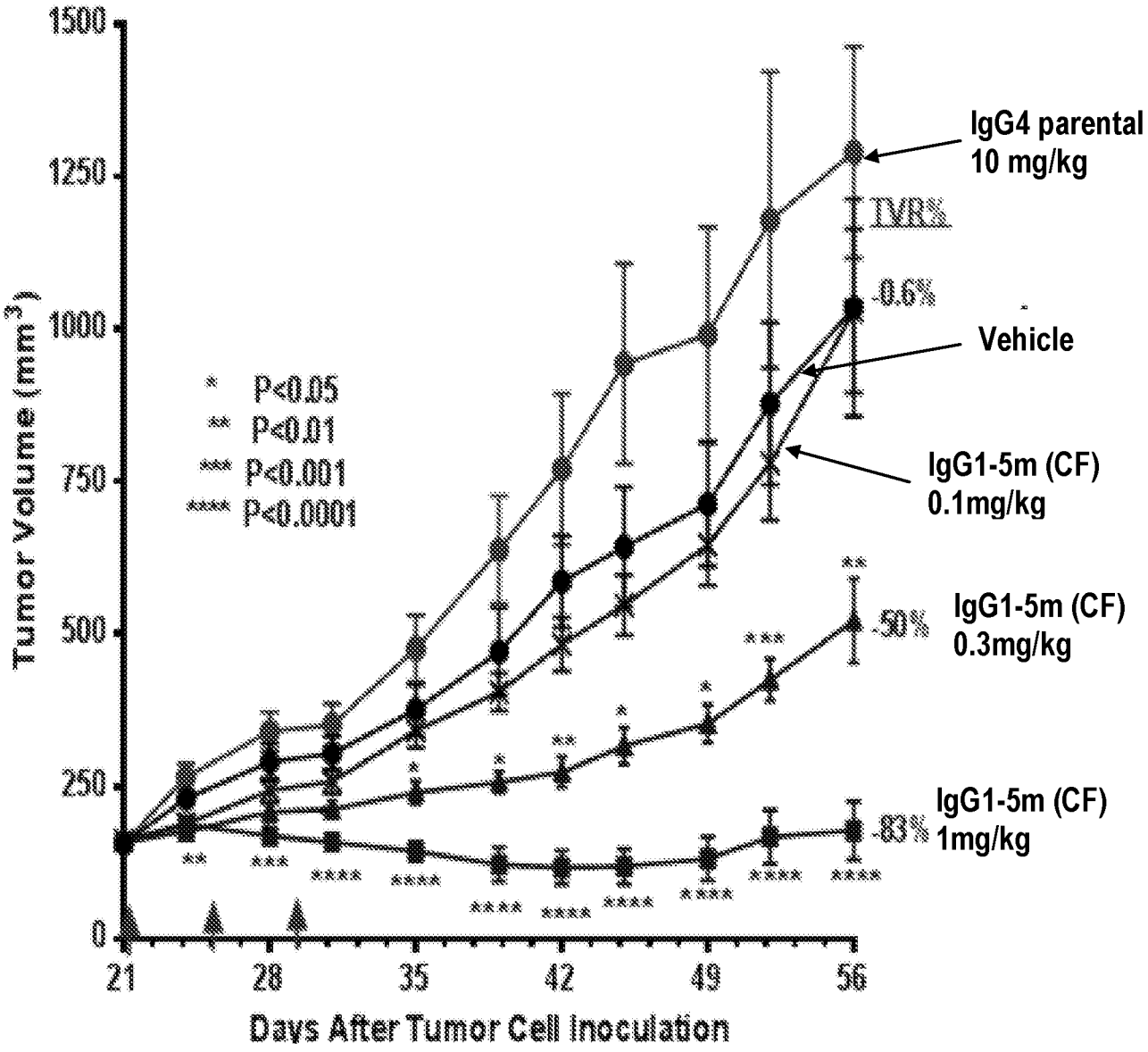
1500
1250
1000
750
500
250
0
Tumor Volume (mm3)
21
28
35
42
49
56
Days After Tumor Cell Inoculation
* P<0.05
** P<0.01
*** P<0.001
**** P<0.0001
IgG4 parental
10 mg/kg
TVR%
-0.6%
Vehicle
IgG1-5m (CF)
0.1mg/kg
-50%
IgG1-5m (CF)
0.3mg/kg
-83%
IgG1-5m (CF)
1mg/kg

Fig. 5