Fig. 1

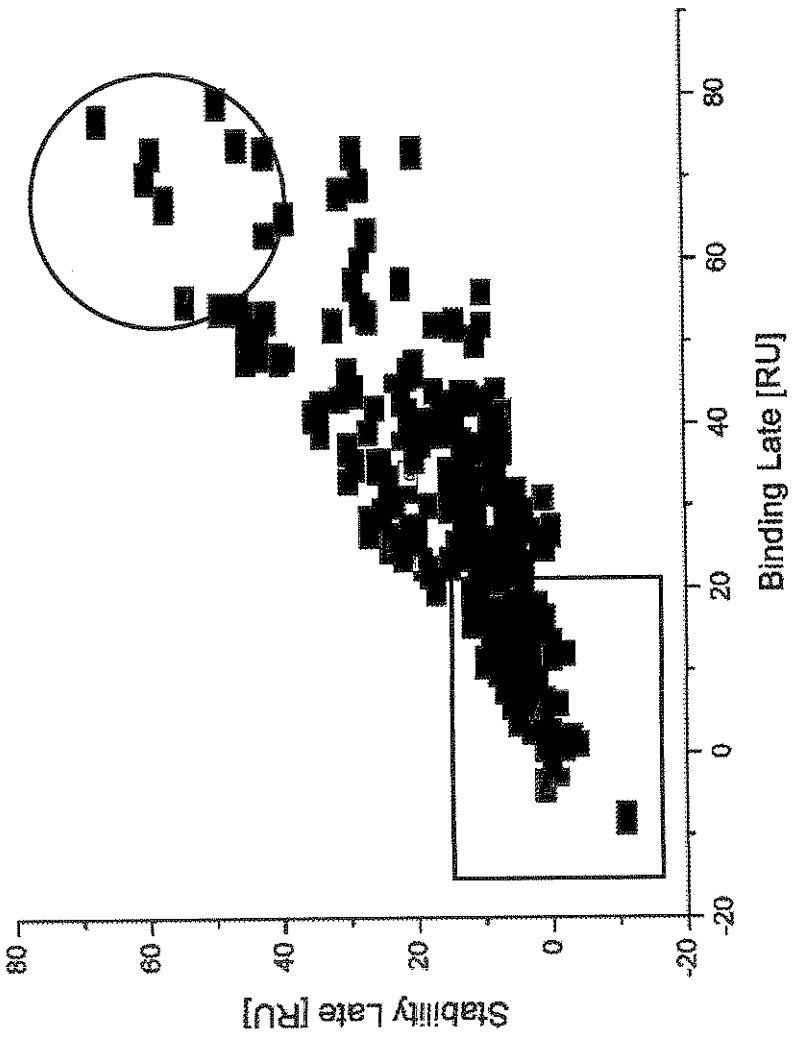

Stability Late [RU]
80
60
40
20
0
-20
Binding Late [RU]
-20
0
20
40
60
80

Fig. 2

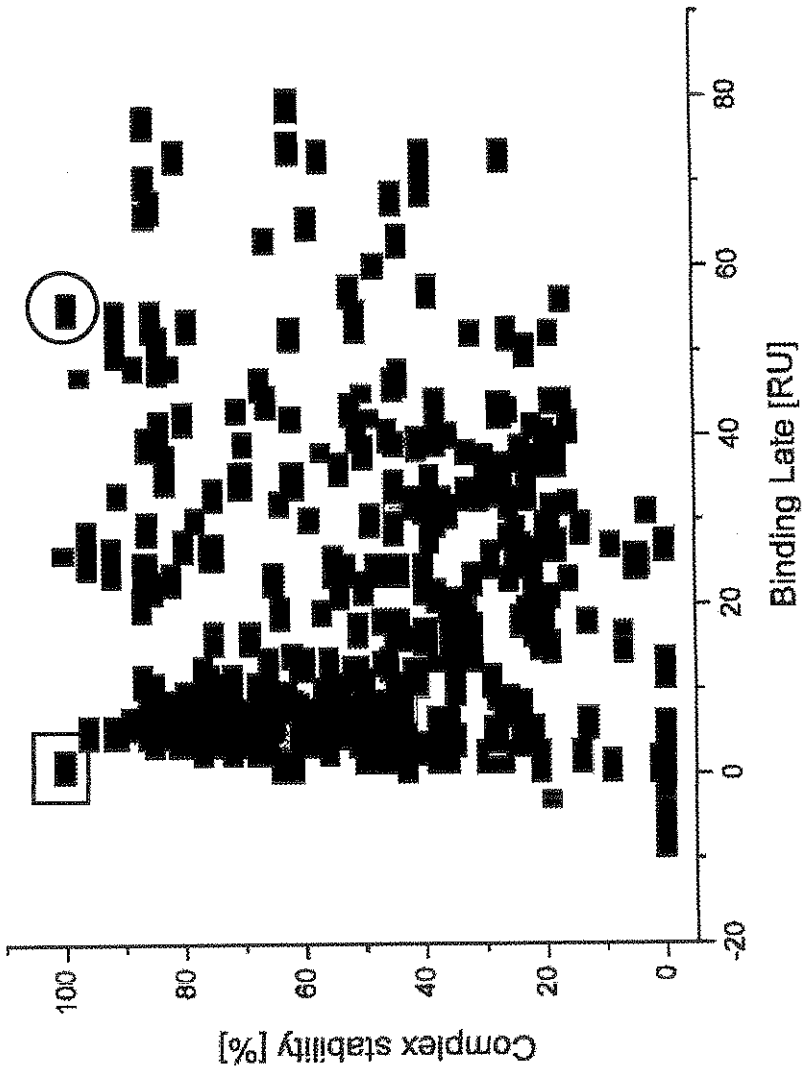

Complex stability [%]
100
80
60
40
20
0
Binding Late [RU]
80
60
40
20
0
-20

Fig. 3

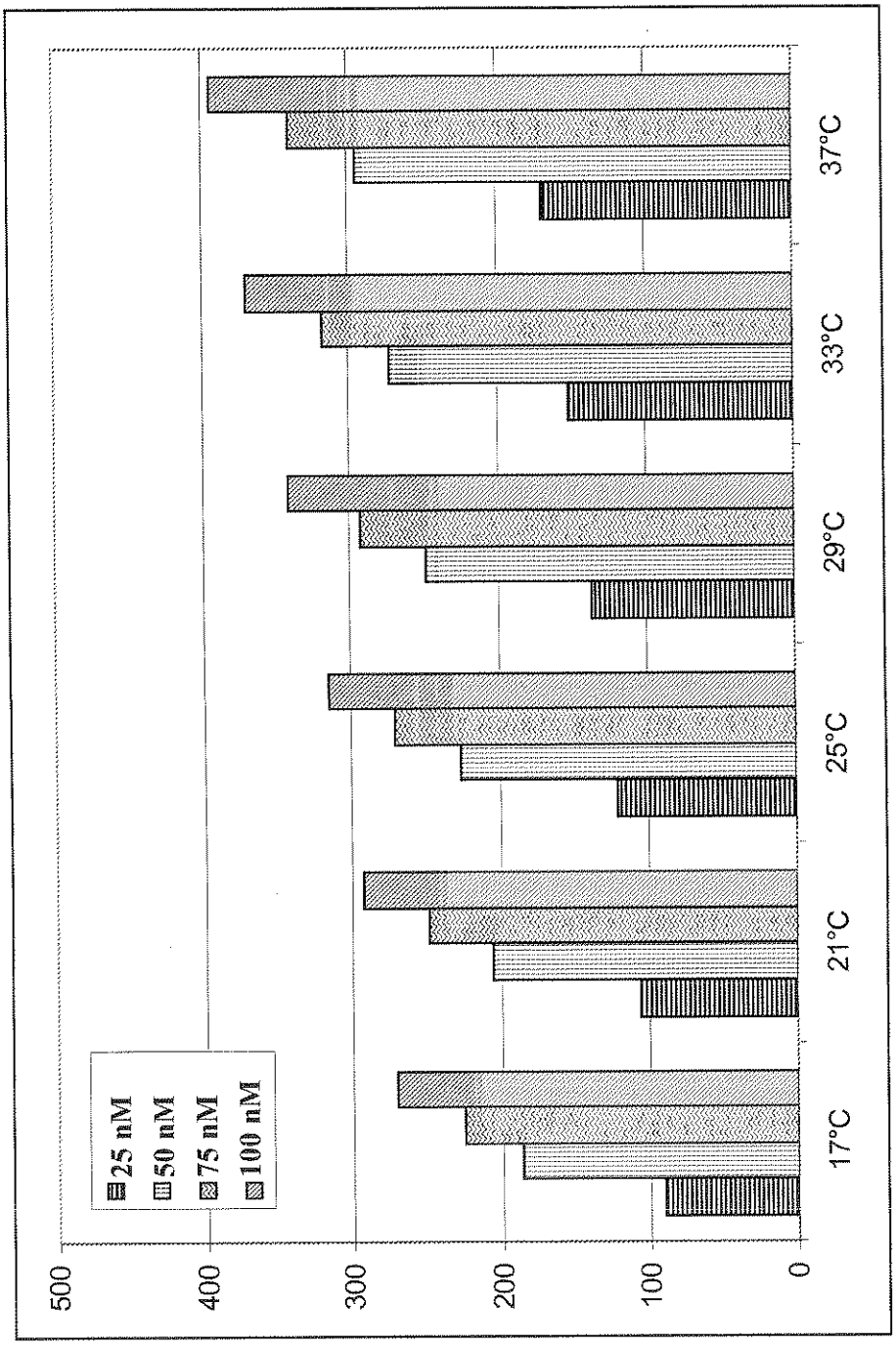

500
400
300
200
100
0
25 nM
50 nM
75 nM
100 nM
17°C
21°C
25°C
29°C
33°C
37°C

Fig. 4a

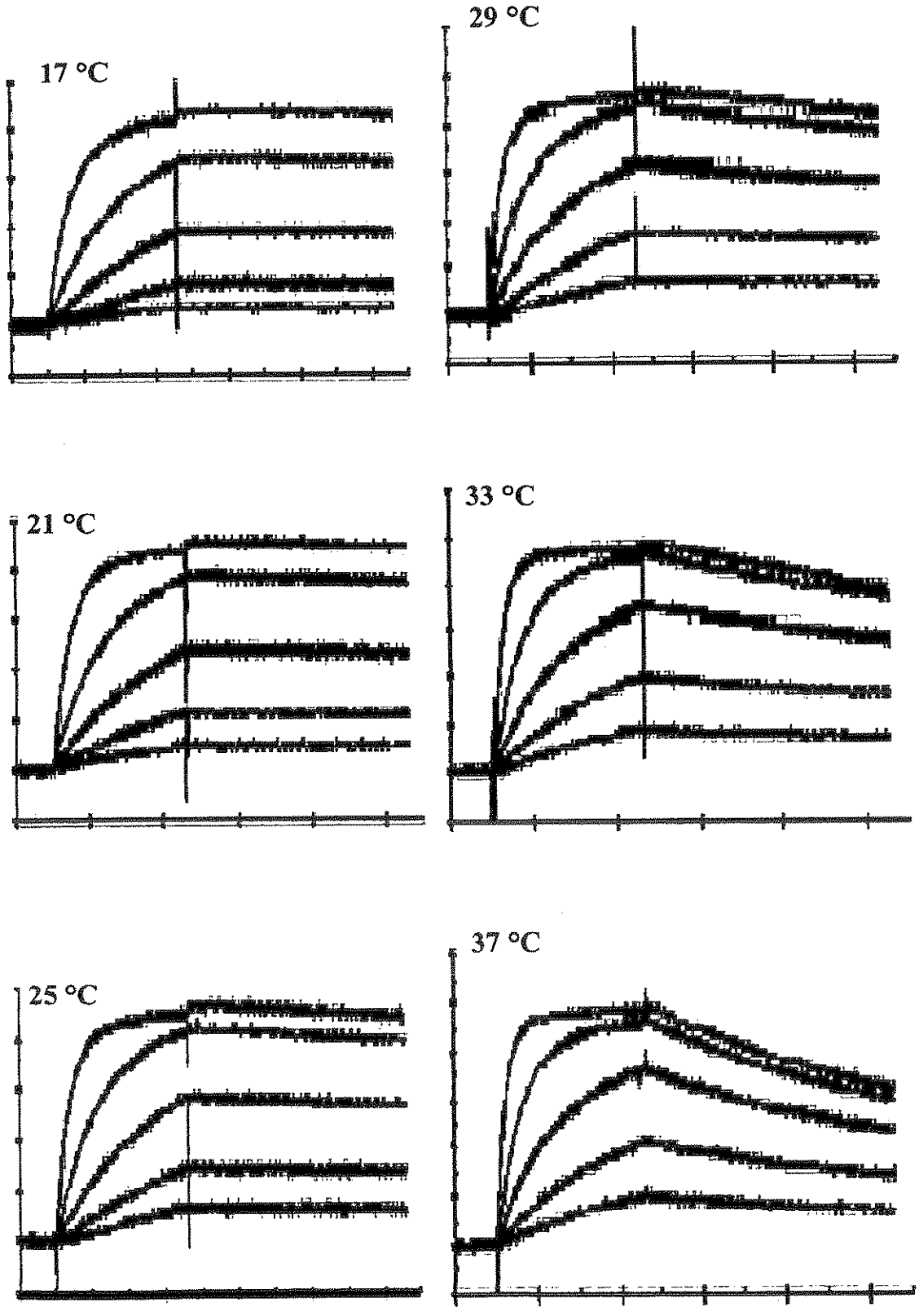


Fig. 4b

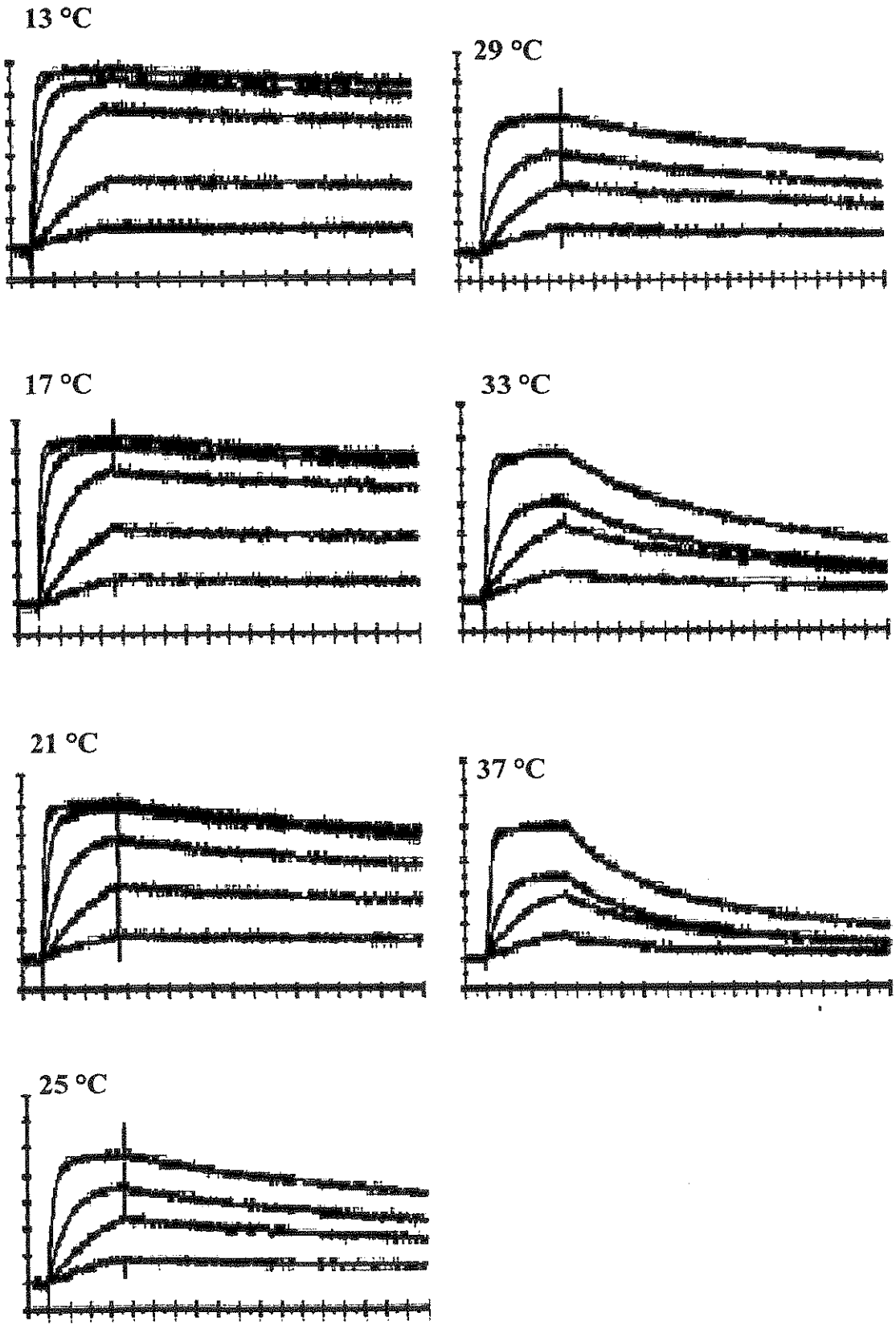


Fig. 5a

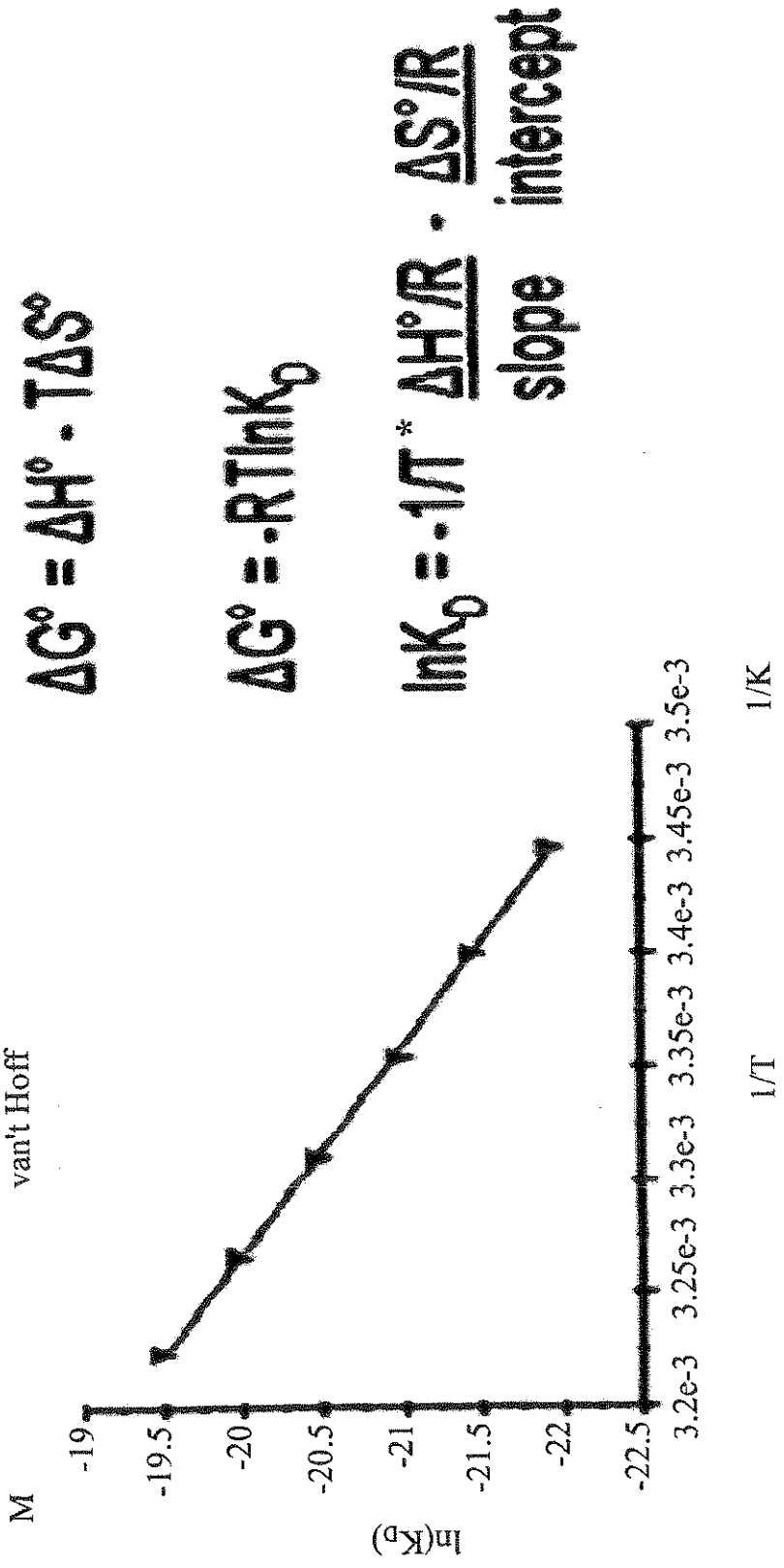

ΔG° = ΔH° - TΔS°
ΔG° = -RTlnK_D
lnK_D = -1/T * ΔH°/R - ΔS°/R
slope
intercept
van't Hoff
M
ln(K_D)
-19
-19.5
-20
-20.5
-21
-21.5
-22
-22.5
3.2e-3
3.25e-3
3.3e-3
3.35e-3
3.4e-3
3.45e-3
3.5e-3
1/T
1/K

Fig. 5b

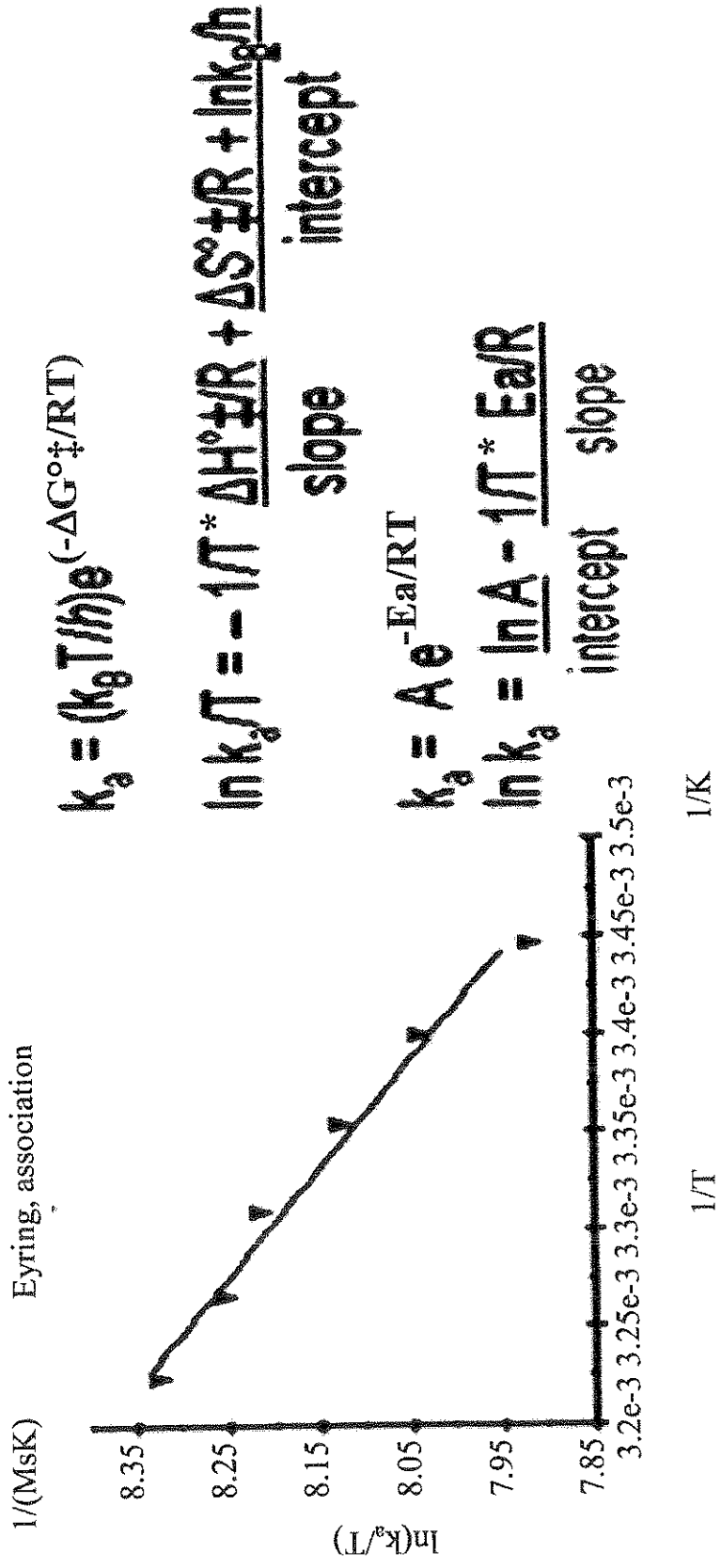

$k_a = (k_B T/h) e^{(-\Delta G^{\circ\ddagger}/RT)}$
$\ln k_a/T = -1/T * \frac{\Delta H^{\circ\ddagger}/R}{\text{slope}} + \frac{\Delta S^{\circ\ddagger}/R + \ln k_B/h}{\text{intercept}}$
$k_a = A e^{-Ea/RT}$
$\ln k_a = \frac{\ln A}{\text{intercept}} - 1/T * \frac{Ea/R}{\text{slope}}$
Eyring, association
1/(MsK)
8.35
8.25
8.15
8.05
7.95
7.85
ln(k_a/T)
3.2e-3 3.25e-3 3.3e-3 3.35e-3 3.4e-3 3.45e-3 3.5e-3
1/T
1/K

Fig. 5c

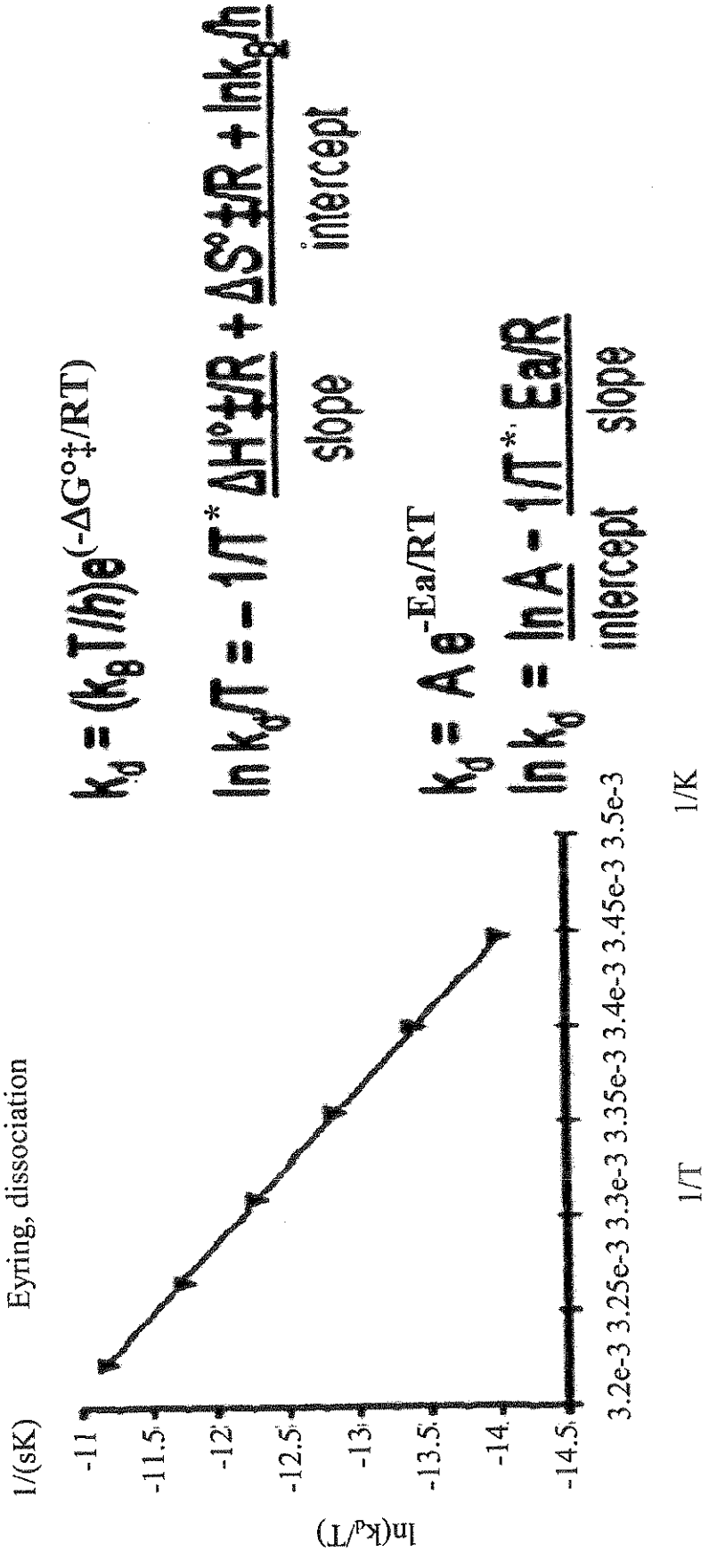

$k_d = (k_B T/h) e^{(-\Delta G^{\circ\ddagger}/RT)}$
$\ln k_d/T = -1/T^* \Delta H^{\circ\ddagger}/R + \Delta S^{\circ\ddagger}/R + \ln k_B/h$
slope
intercept
$k_d = A e^{-Ea/RT}$
$\ln k_d = \ln A - 1/T^* Ea/R$
intercept
slope
Eyring, dissociation
1/(sK)
-11
-11.5
-12
-12.5
-13
-13.5
-14
-14.5
ln(k_d/T)
3.2e-3 3.25e-3 3.3e-3 3.35e-3 3.4e-3 3.45e-3 3.5e-3
1/T
1/K

Fig. 6a

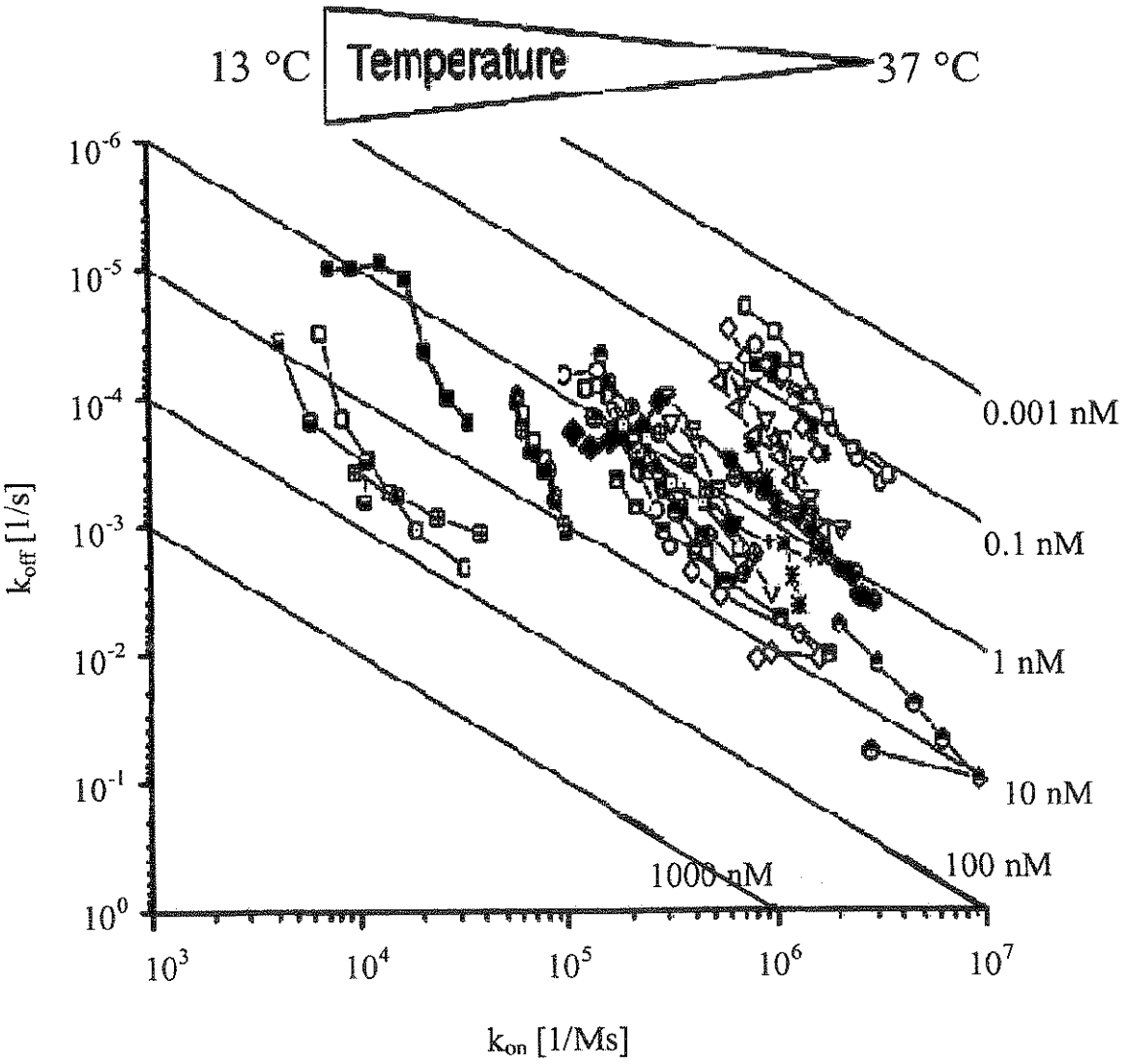

13 °C
Temperature
37 °C
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
k_{off} [1/s]
0.001 nM
0.1 nM
1 nM
10 nM
100 nM
1000 nM
10^{3}
10^{4}
10^{5}
10^{6}
10^{7}
k_{on} [1/Ms]

Fig. 6b

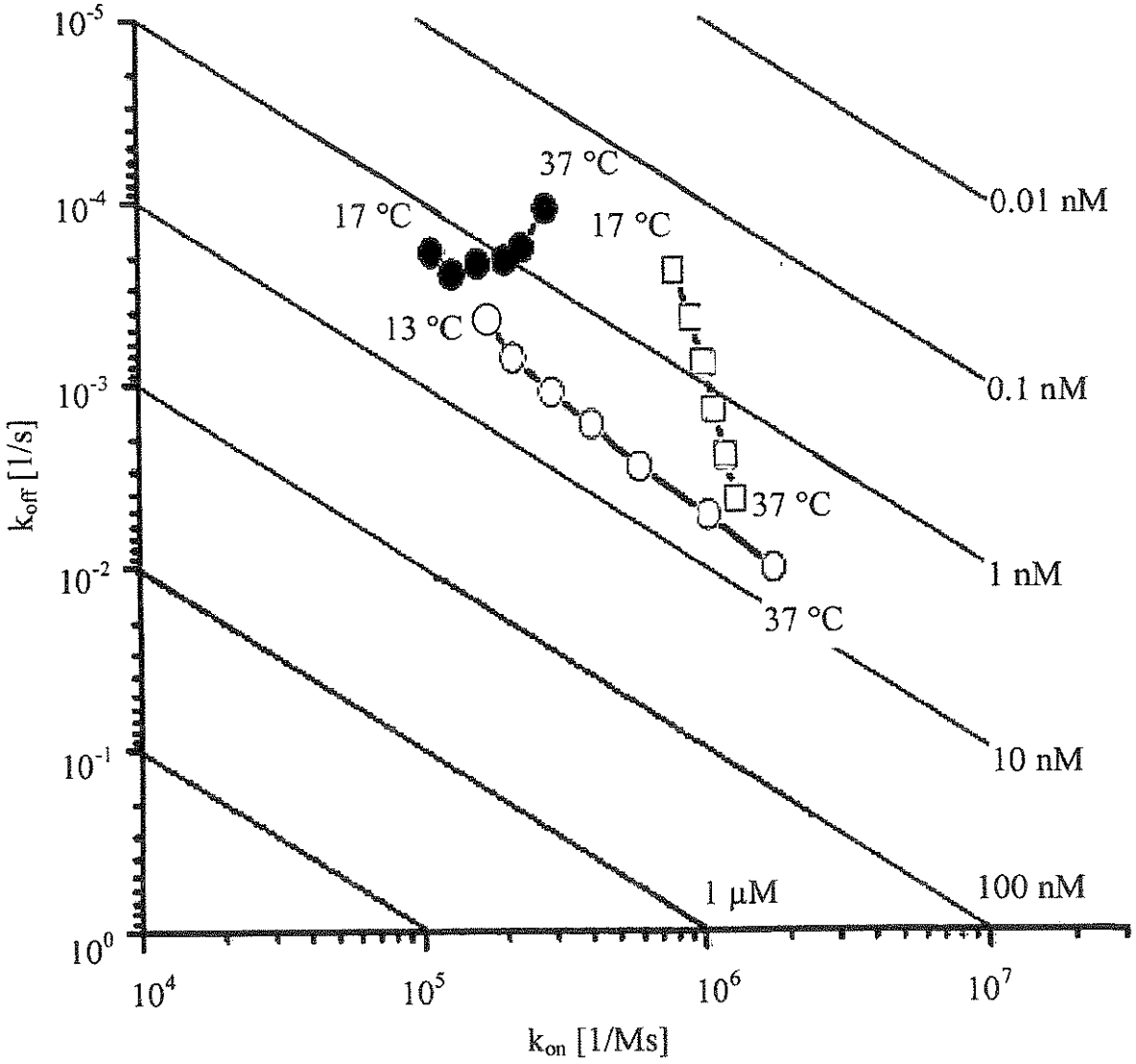

10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
k_{off} [1/s]
10^{4}
10^{5}
10^{6}
10^{7}
k_{on} [1/Ms]
37 °C
17 °C
17 °C
13 °C
37 °C
37 °C
0.01 nM
0.1 nM
1 nM
10 nM
100 nM
1 µM

Fig. 7

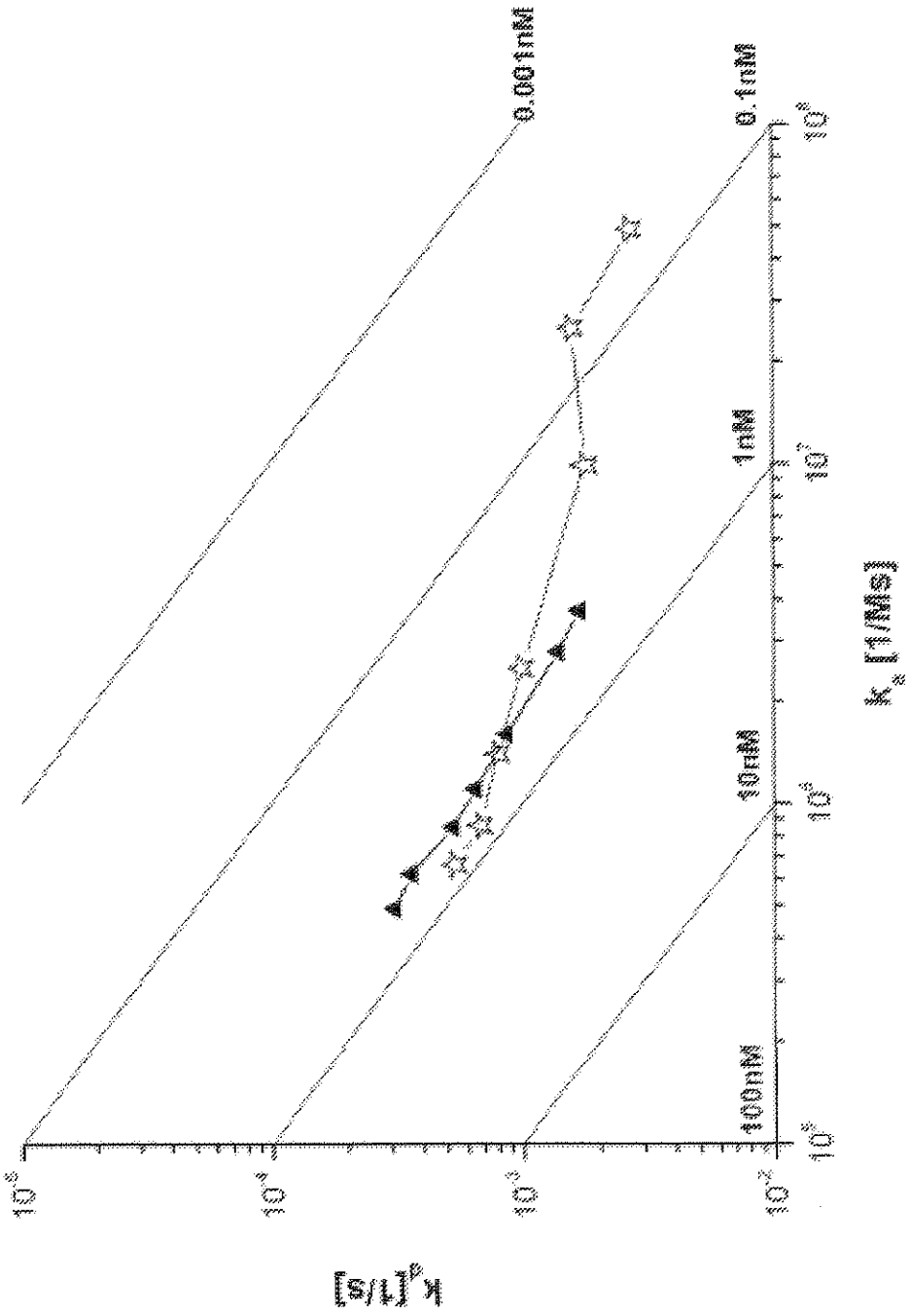


Fig. 8

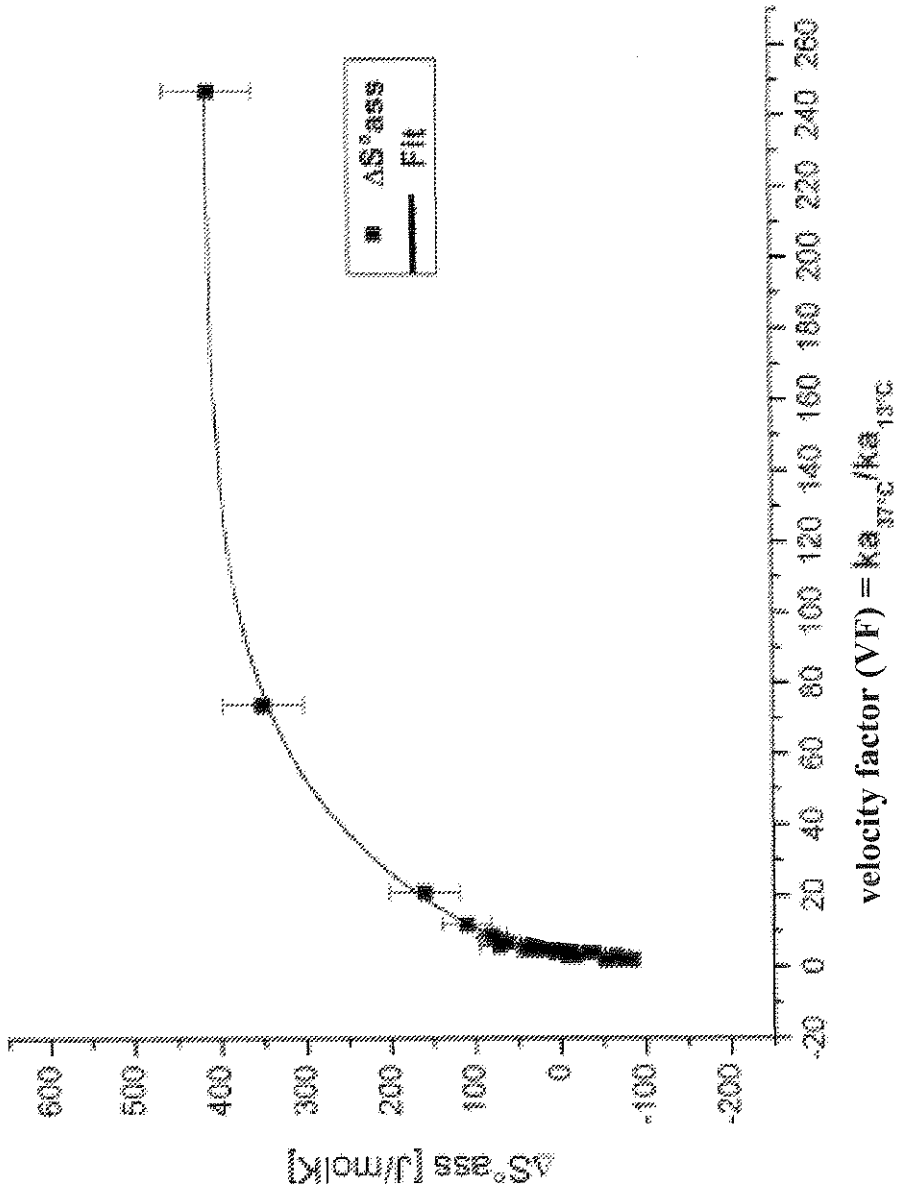
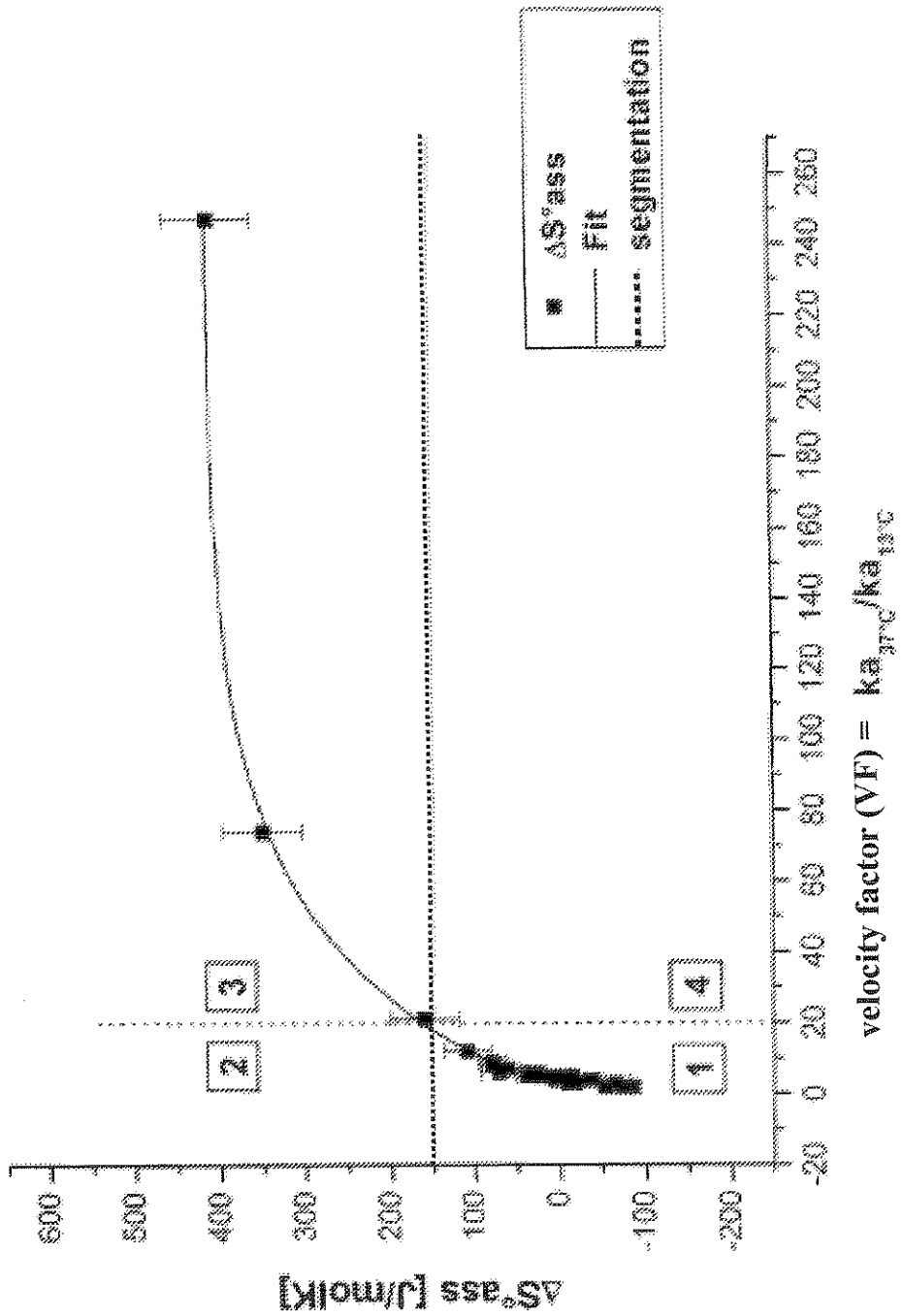

ΔS°ass
fit
ΔS°ass [J/mol/K]
600
500
400
300
200
100
0
-100
-200
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260
velocity factor (VF) = ka37°C/ka18°C

Fig. 9


ΔS°ass
Fit
segmentation
1
2
3
4
ΔS°ass [J/mol/K]
velocity factor (VF) = ka37°C/ka25°C
600
500
400
300
200
100
0
-100
-200
-20
0
20
40
60
80
100
120
140
160
180
200
220
240
260