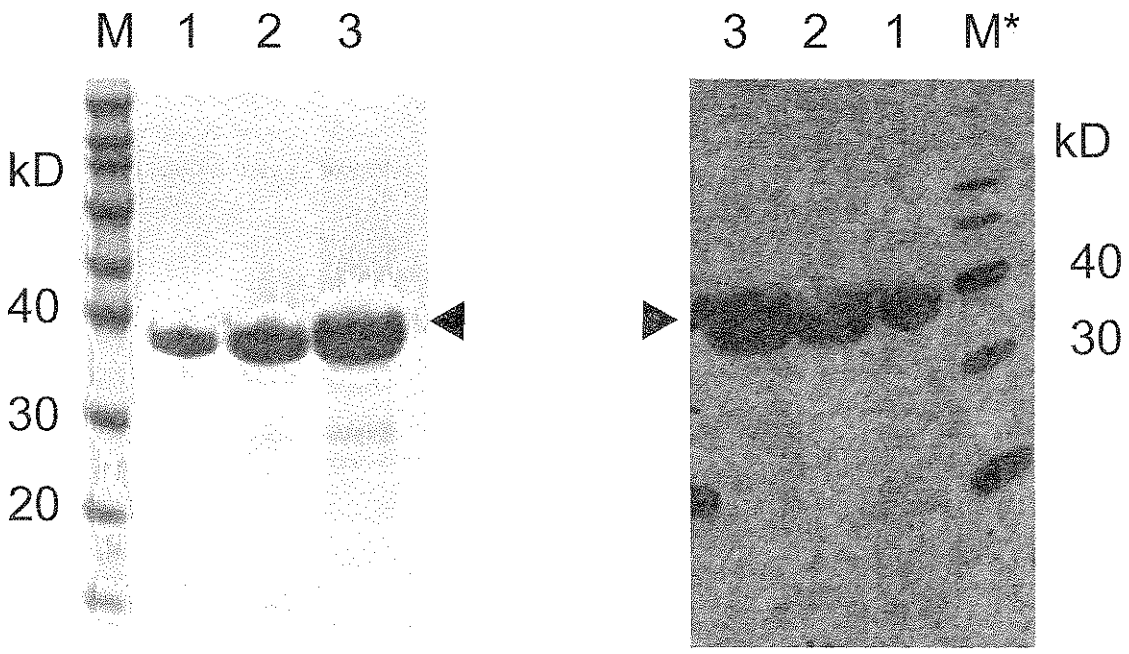
Figure 1



M - Novex Sharp Standard
1 - SlyD/FKBP12-crtl; 2.5µg
2 - SlyD/FKBP12-crtl; 5.0µg
3 - SlyD/FKBP12-crtl; 10µg
M* - MagicMark

MW: 33kD

Figure 2

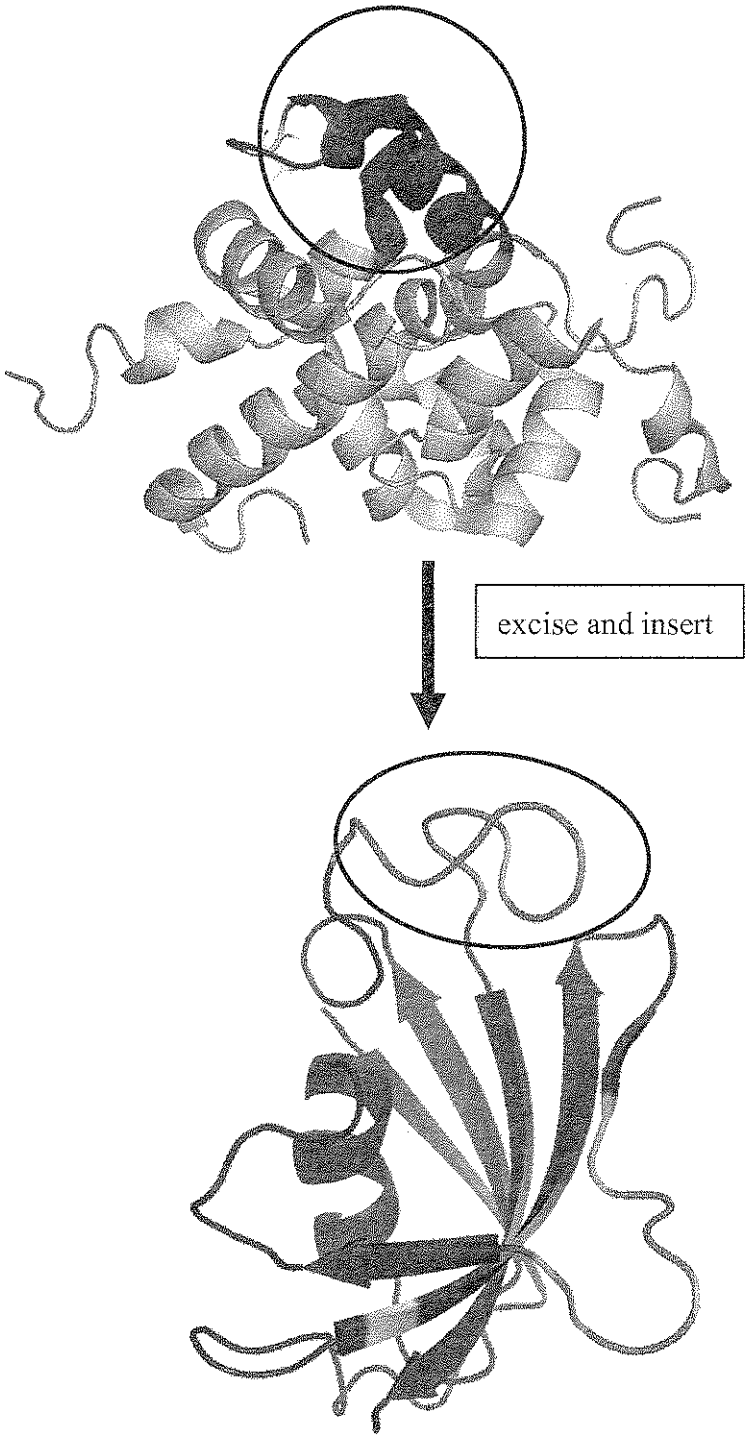
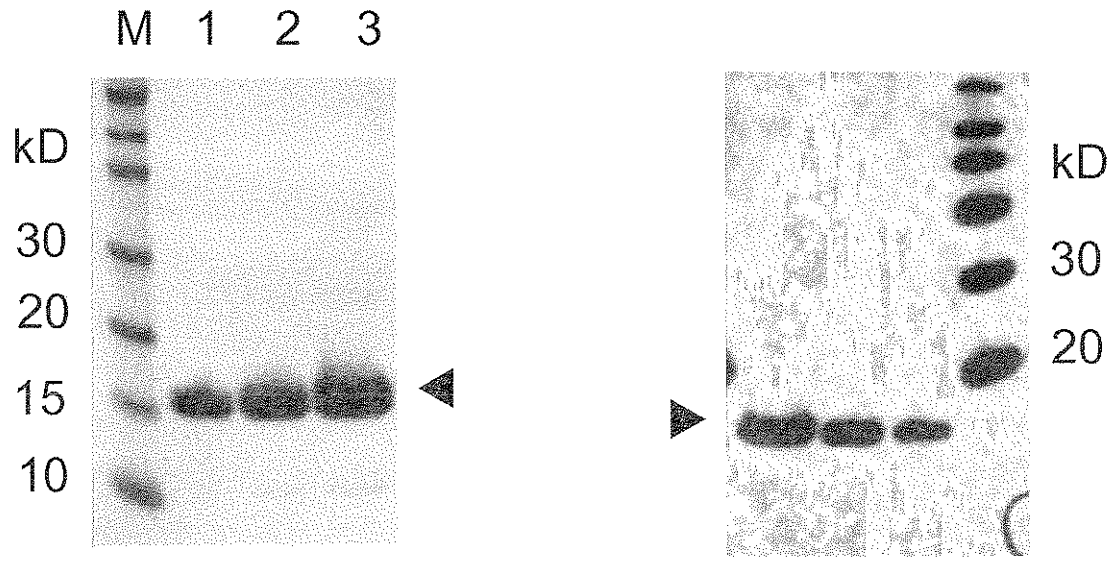


Figure 3



M - Novex Sharp Standard
1 - thermoSlyD-IGF1; 2.5µg
2 - thermoSlyD-IGF1; 5.0µg
3 - thermoSlyD-IGF1; 10µg
M* - MagicMark

MW: 14kD

Figure 4

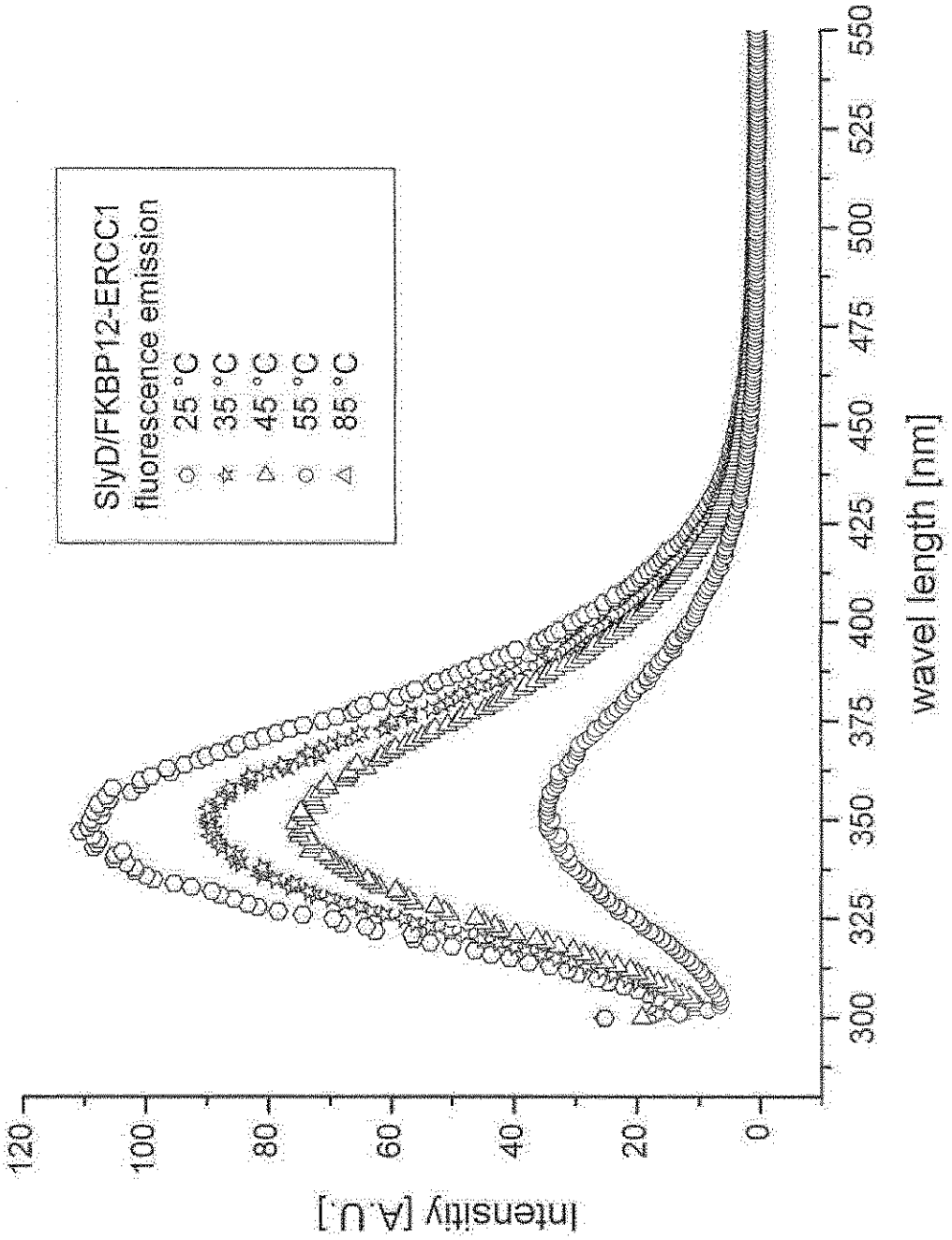

SlyD/FKBP12-ERCC1
fluorescence emission
25 °C
35 °C
45 °C
55 °C
85 °C
Intensity [A.U.]
0
20
40
60
80
100
120
wavel length [nm]
300
325
350
375
400
425
450
475
500
525
550

Figure 5

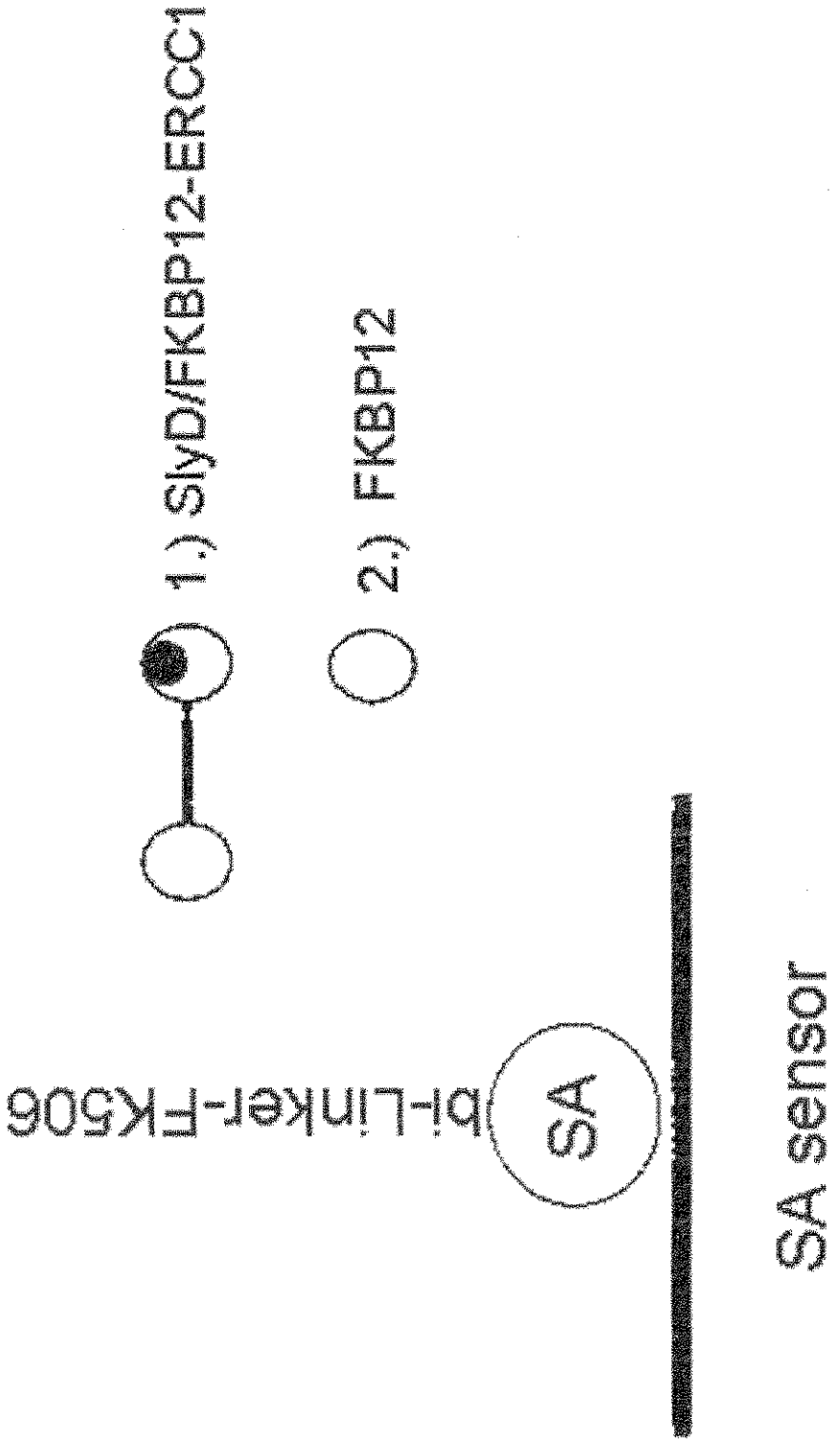


Figure 6

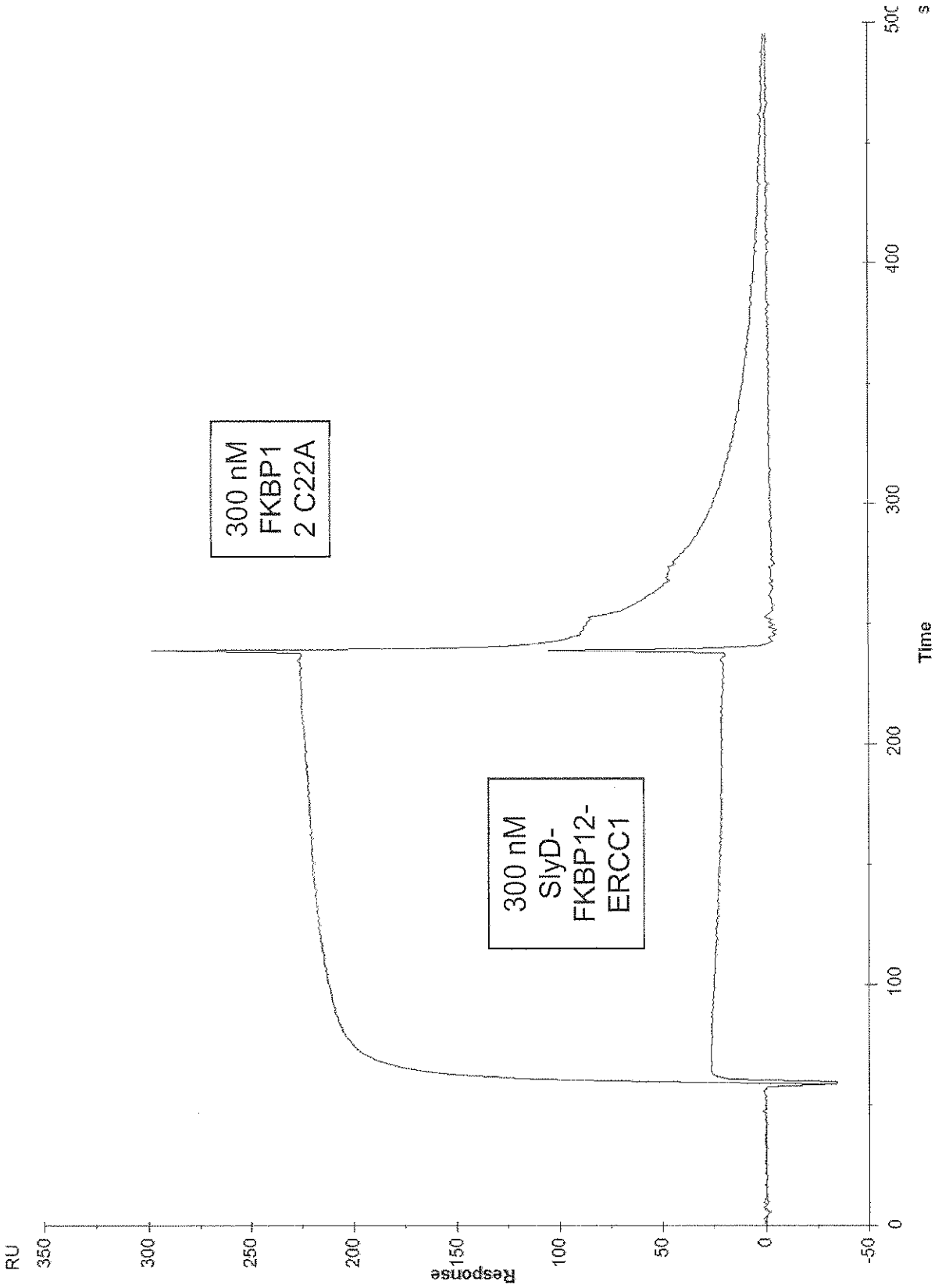

300 nM FKBP1 2 C22A
300 nM SlyD-FKBP12-ERCC1
RU
Response
Time
350
300
250
200
150
100
50
0
-50
0
100
200
300
400

Figure 7

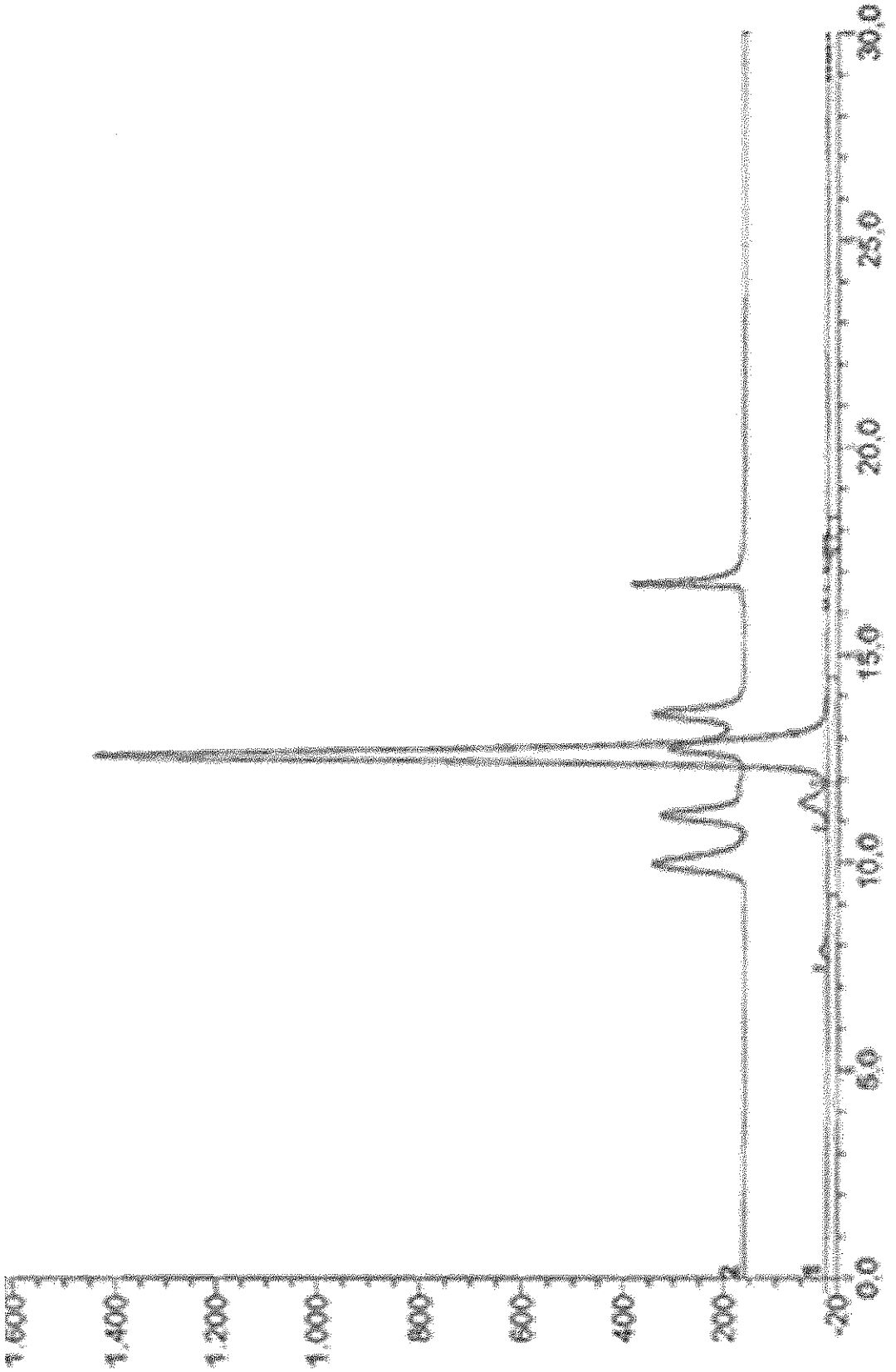


Figure 8

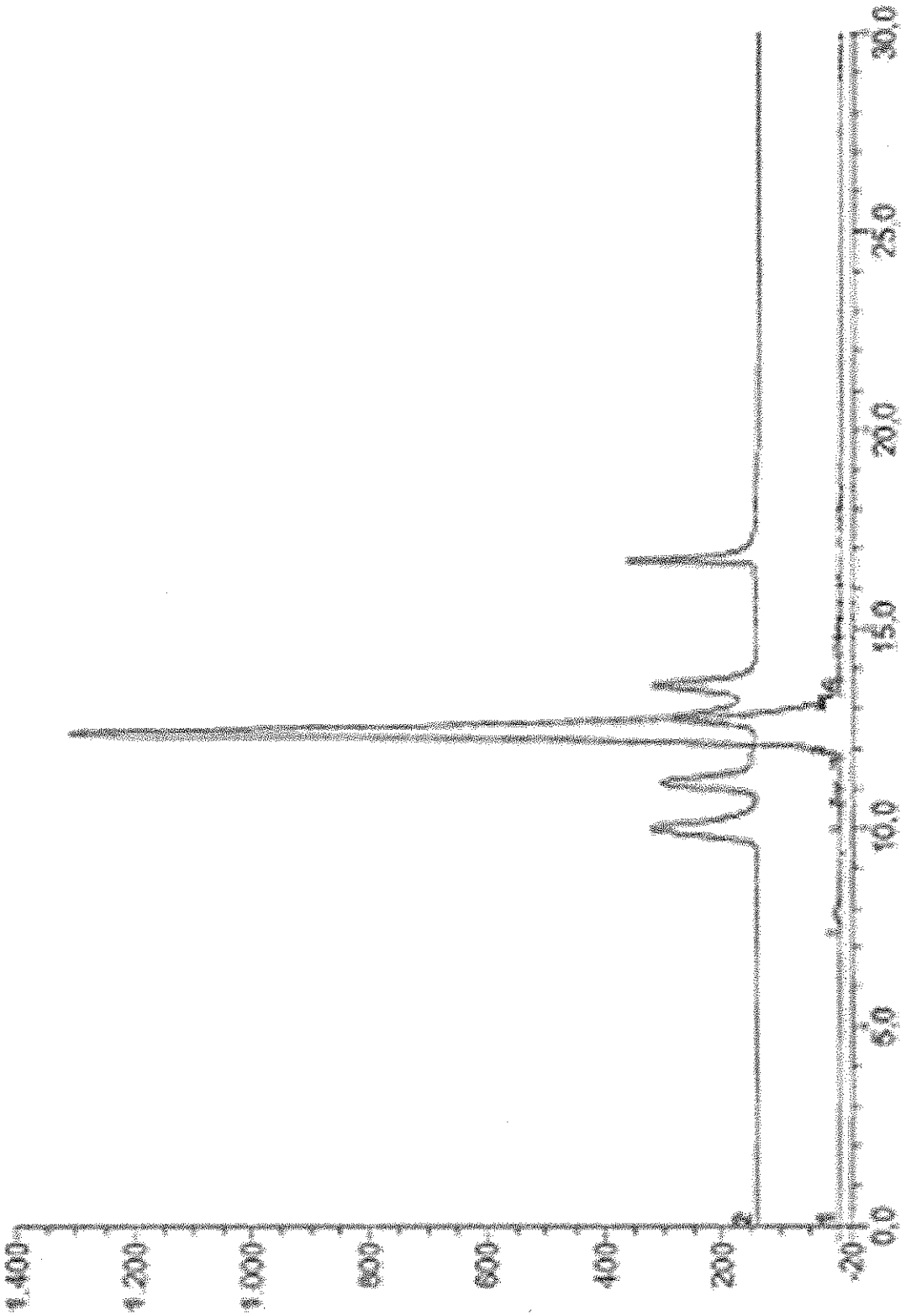


Figure 9

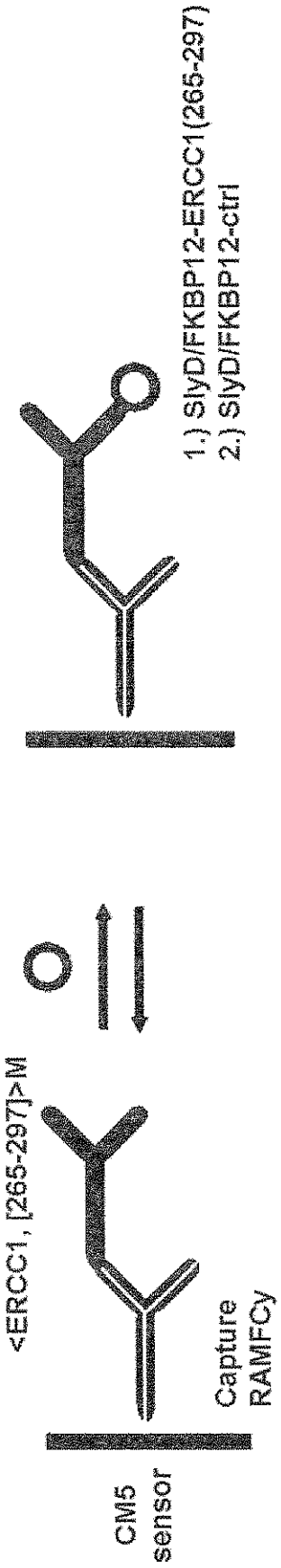

1.) SlyD/FKBP12-ERCC1(265-297)
2.) SlyD/FKBP12-ctrl
<ERCC1, [265-297]>M
Capture
RAMFCy
CM5
sensor

Figure 10

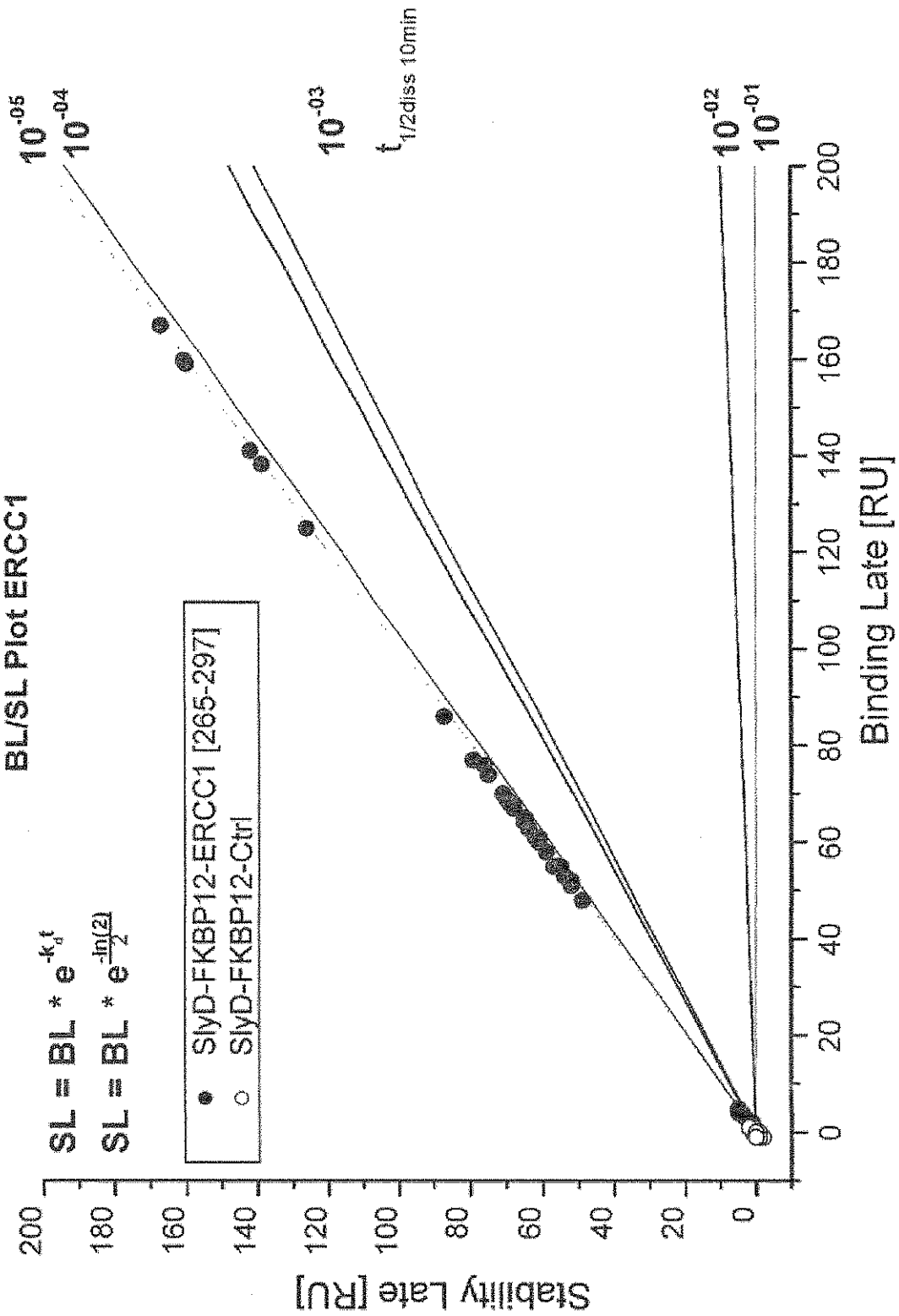

BL/SL Plot ERCC1
SL = BL * e^-k_d t
SL = BL * e^-ln(2)/t_1/2
SlyD-FKBP12-ERCC1 [265-297]
SlyD-FKBP12-Ctrl
t1/2diss 10min
10^-05
10^-04
10^-03
10^-02
10^-01
Stability Late [RU]
Binding Late [RU]
0
20
40
60
80
100
120
140
160
180
200

Figure 11

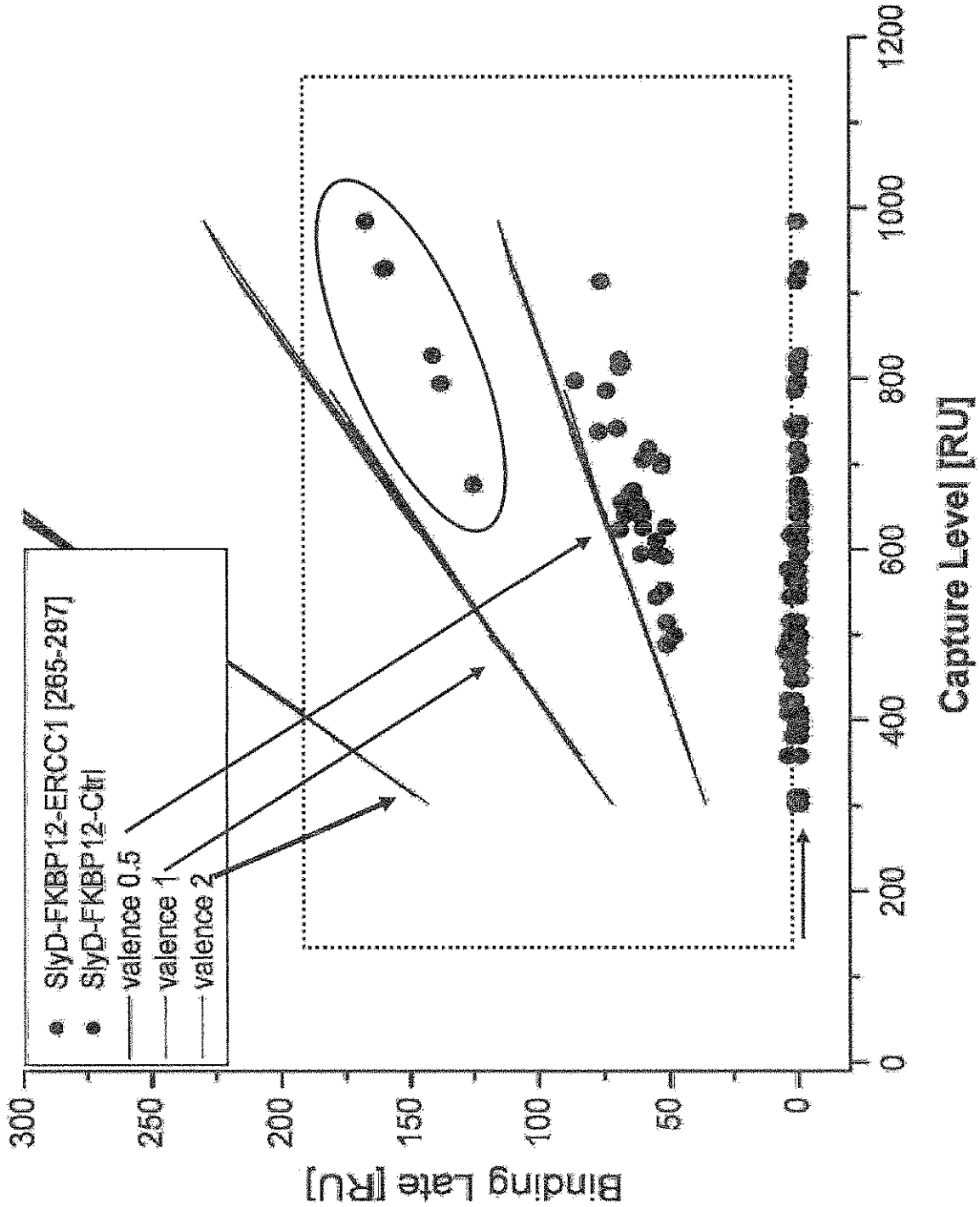

SlyD-FKBP12-ERCC1 [265-297]
SlyD-FKBP12-Ctrl
valence 0.5
valence 1
valence 2
Binding Late [RU]
Capture Level [RU]
300
250
200
150
100
50
0
0
200
400
600
800
1000
1200

Figure 12A

Antibody	Analyte	Binding Late (RU)	Stability Late (RU)	kd (1/s)	t1/2 (min)
5.001.015	SlyD/FKBP12-ERCC1	48	49	< 1E-05	> 1155
	SlyD/FKBP12-crtI	0	0	-	-
5.001.017	SlyD/FKBP12-ERCC1	68	69	5.86E-05	197
	SlyD/FKBP12-crtI	0	-1	-	-
5.001.019	SlyD/FKBP12-ERCC1	68	68	1.17E-04	99
	SlyD/FKBP12-crtI	-1	-1	-	-
5.001.025	SlyD/FKBP12-ERCC1	58	59	9.42E-05	123
	SlyD/FKBP12-crtI	0	0	-	-
5.001.035	SlyD/FKBP12-ERCC1	138.2	138.8	5.66E-05	204
	SlyD/FKBP12-crtI	-0.2	-0.1	-	-
5.001.041	SlyD/FKBP12-crtI	0	-1	-	-
	SlyD/FKBP12-ERCC1	0	0	-	-
5.001.060	SlyD/FKBP12-ERCC1	51	52	8.19E-05	141
	SlyD/FKBP12-crtI	0	0	-	-
5.001.062	SlyD/FKBP12-ERCC1	70	71	6.98E-05	165
	SlyD/FKBP12-crtI	0	1	-	-
5.002.015	SlyD/FKBP12-ERCC1	64	65	3.90E-05	296
	SlyD/FKBP12-crtI	0	0	-	-
5.002.017	SlyD/FKBP12-ERCC1	69	70	6.43E-05	180
	SlyD/FKBP12-crtI	0	0	-	-
5.002.019	SlyD/FKBP12-ERCC1	67	68	7.02E-05	165
	SlyD/FKBP12-crtI	0	0	-	-
5.002.025	SlyD/FKBP12-ERCC1	51	52	1.22E-04	95
	SlyD/FKBP12-crtI	-1	-1	-	-
5.002.035	SlyD/FKBP12-ERCC1	159	160	5.66E-05	204
	SlyD/FKBP12-crtI	-1	0	-	-
5.002.041	SlyD/FKBP12-crtI	0	1	-	-
	SlyD/FKBP12-ERCC1	1	1	-	-
5.002.060	SlyD/FKBP12-ERCC1	51	52	4.98E-05	232
	SlyD/FKBP12-crtI	0	0	-	-
5.002.062	SlyD/FKBP12-ERCC1	61	62	9.11E-05	127
	SlyD/FKBP12-crtI	-1	-1	-	-
5.005.015	SlyD/FKBP12-ERCC1	61	61	8.52E-05	136
	SlyD/FKBP12-crtI	-1	0	-	-
5.005.017	SlyD/FKBP12-ERCC1	60	61	1.19E-04	97
	SlyD/FKBP12-crtI	-1	0	-	-
5.005.019	SlyD/FKBP12-ERCC1	86	87	7.11E-05	163
	SlyD/FKBP12-crtI	0	0	-	-
5.005.025	SlyD/FKBP12-ERCC1	53	54	1.23E-04	94
	SlyD/FKBP12-crtI	0	0	-	-
5.005.035	SlyD/FKBP12-ERCC1	141	142	5.66E-05	204
	SlyD/FKBP12-crtI	-1	0	-	-
5.005.041	SlyD/FKBP12-crtI	0	0	-	-
	SlyD/FKBP12-ERCC1	4	4	-	-
5.005.062	SlyD/FKBP12-ERCC1	55	55	1.20E-04	96
	SlyD/FKBP12-crtI	0	0	-	-

Figure 12B

Antibody	Analyte	Binding Late (RU)	Stability Late (RU)	kd (1/s)	t1/2 (min)
5.003.015	SlyD/FKBP12-ERCC1	74	75	6.70E-05	172
	SlyD/FKBP12-crtI	1	2	-	-
5.003.017	SlyD/FKBP12-ERCC1	76	76	1.01E-04	115
	SlyD/FKBP12-crtI	0	0	-	-
5.003.019	SlyD/FKBP12-ERCC1	77	79	2.93E-05	394
	SlyD/FKBP12-crtI	0	0	-	-
5.003.025	SlyD/FKBP12-ERCC1	52	52	1.01E-04	114
	SlyD/FKBP12-crtI	0	-1	-	-
5.003.035	SlyD/FKBP12-ERCC1	167	167	5.66E-05	204
	SlyD/FKBP12-crtI	0	-1	-	-
5.003.041	SlyD/FKBP12-crtI	-1	-1	-	-
	SlyD/FKBP12-ERCC1	3	3	-	-
5.003.060	SlyD/FKBP12-ERCC1	55	56	8.52E-05	136
	SlyD/FKBP12-crtI	0	0	-	-
5.003.062	SlyD/FKBP12-ERCC1	60	61	1.04E-04	111
	SlyD/FKBP12-crtI	-1	-1	-	-
5.004.015	SlyD/FKBP12-ERCC1	60	61	6.07E-05	190
	SlyD/FKBP12-crtI	0	0	-	-
5.004.017	SlyD/FKBP12-ERCC1	69	70	7.52E-05	154
	SlyD/FKBP12-crtI	0	0	-	-
5.004.019	SlyD/FKBP12-ERCC1	69	70	2.23E-05	517
	SlyD/FKBP12-crtI	0	-1	-	-
5.004.025	SlyD/FKBP12-ERCC1	53	54	1.52E-04	76
	SlyD/FKBP12-crtI	-1	-1	-	-
5.004.035	SlyD/FKBP12-ERCC1	159.7	160.6	5.66E-05	204
	SlyD/FKBP12-crtI	-0.8	0	-	-
5.004.041	SlyD/FKBP12-crtI	1	1	-	-
	SlyD/FKBP12-ERCC1	5	5	-	-
5.004.060	SlyD/FKBP12-ERCC1	52	52	7.89E-05	146
	SlyD/FKBP12-crtI	0	0	-	-
5.004.062	SlyD/FKBP12-ERCC1	61	62	1.03E-04	112
	SlyD/FKBP12-crtI	-1	-1	-	-
5.006.015	SlyD/FKBP12-ERCC1	65	65	8.99E-05	128
	SlyD/FKBP12-crtI	-1	0	-	-
5.006.017	SlyD/FKBP12-ERCC1	55	57	8.14E-05	142
	SlyD/FKBP12-crtI	-1	0	-	-
5.006.035	SlyD/FKBP12-ERCC1	125	126	5.66E-05	204
	SlyD/FKBP12-crtI	0	0	-	-
5.006.041	SlyD/FKBP12-crtI	1	2	-	-
	SlyD/FKBP12-ERCC1	4	5	-	-
5.006.060	SlyD/FKBP12-ERCC1	63	64	2.02E-05	573
	SlyD/FKBP12-crtI	0	-1	-	-
5.006.062	SlyD/FKBP12-ERCC1	64	65	1.14E-04	101
	SlyD/FKBP12-crtI	0	0	-	-

Figure 13

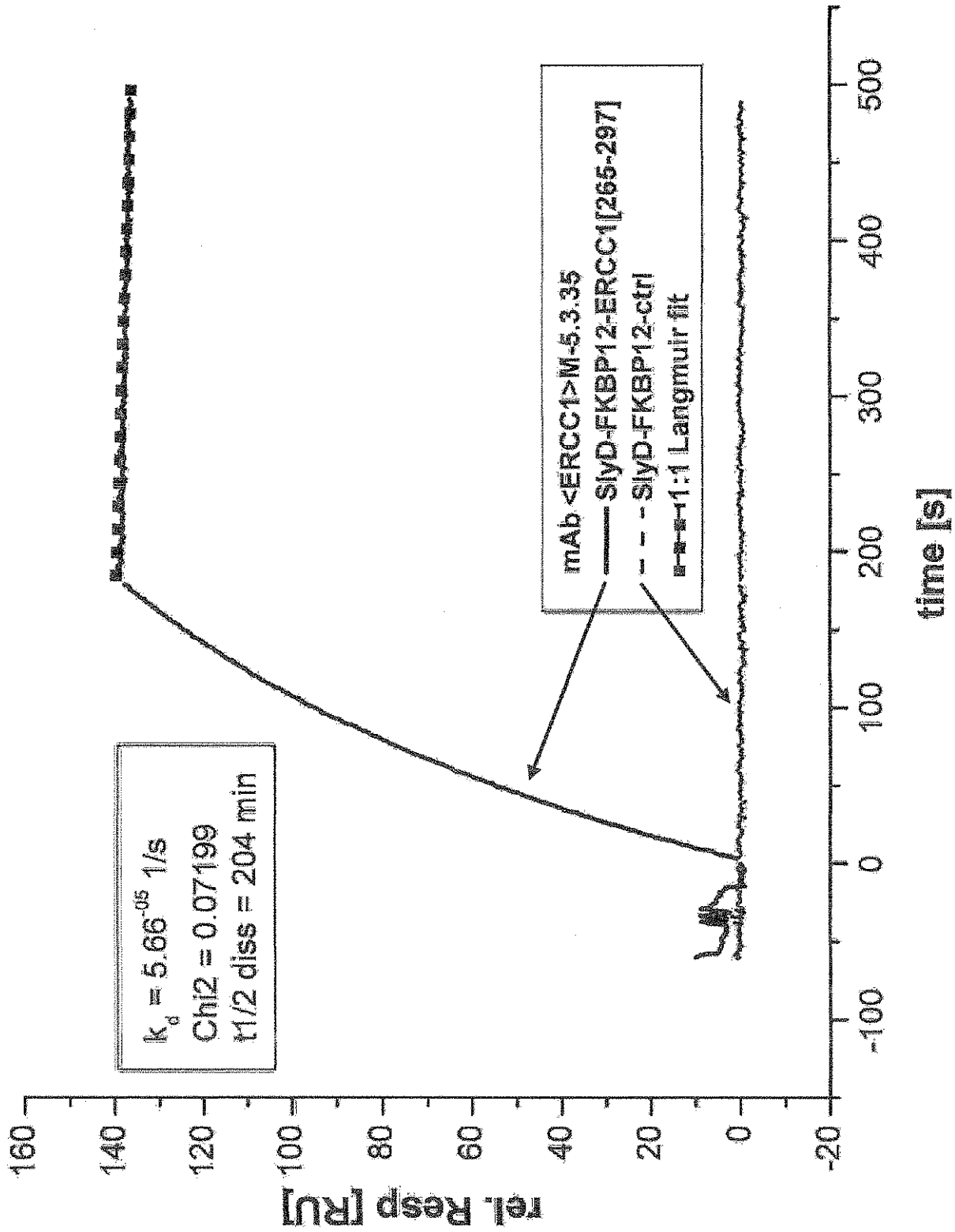
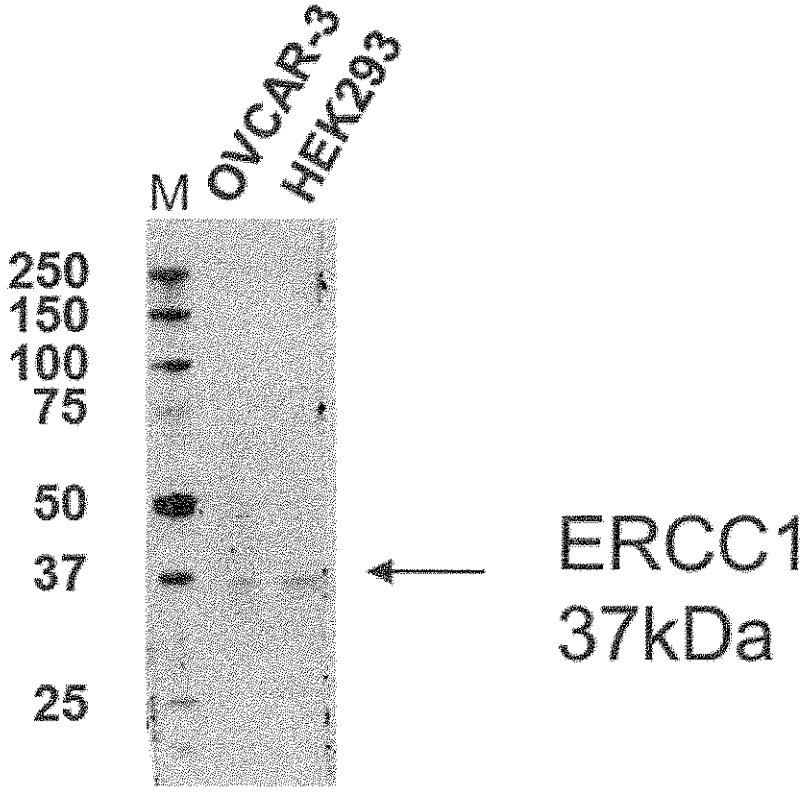

rel. Resp [RU]
time [s]
mAb <ERCC1>M-5.3.35
SlyD-FKBP12-ERCC1[265-297]
SlyD-FKBP12-ctrl
1:1 Langmuir fit
k_d = 5.66^{-05} 1/s
Chi2 = 0.07199
t1/2 diss = 204 min

Figure 14



<ERCC1>-M-5.1.035

Figure 15

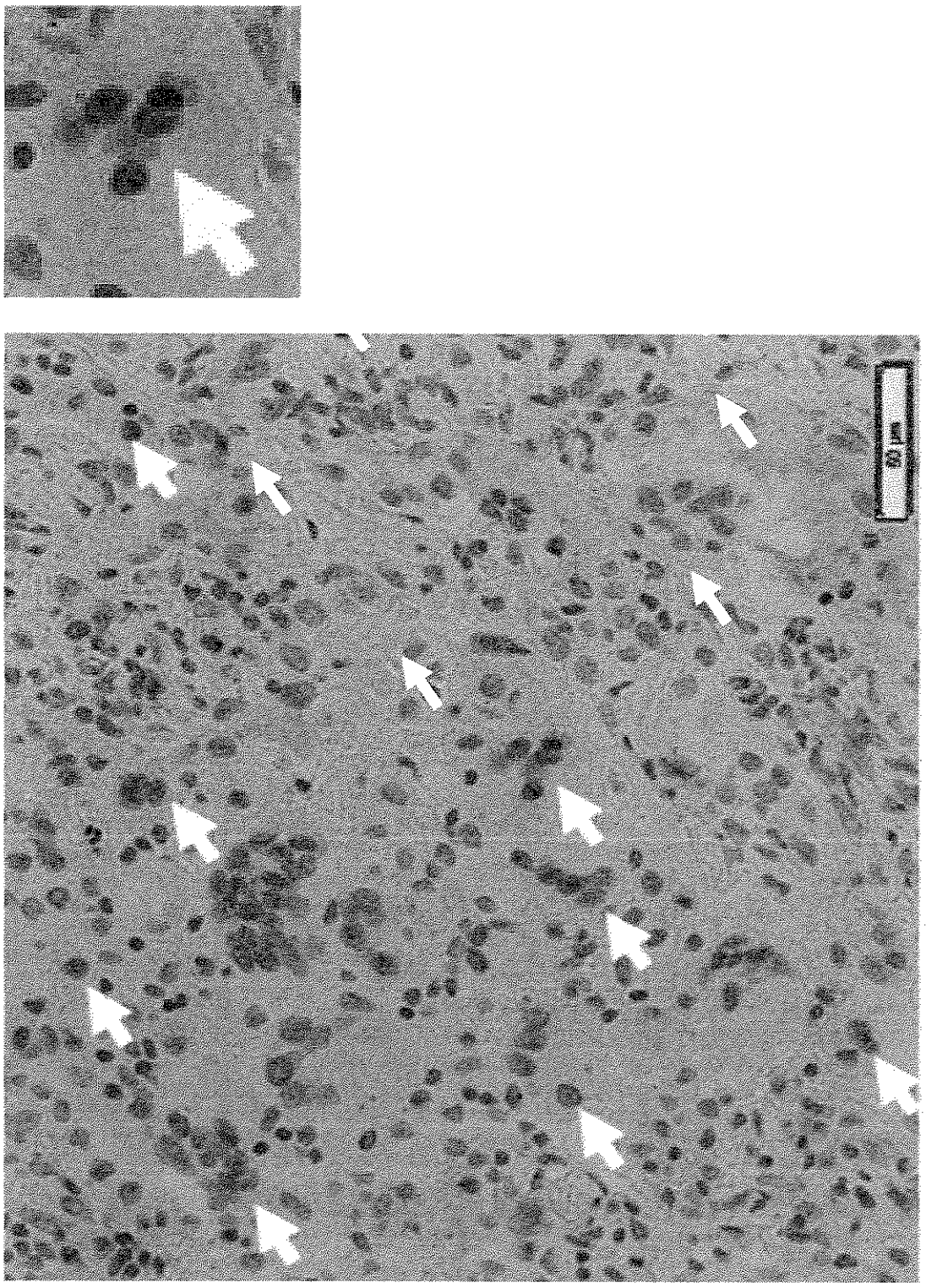
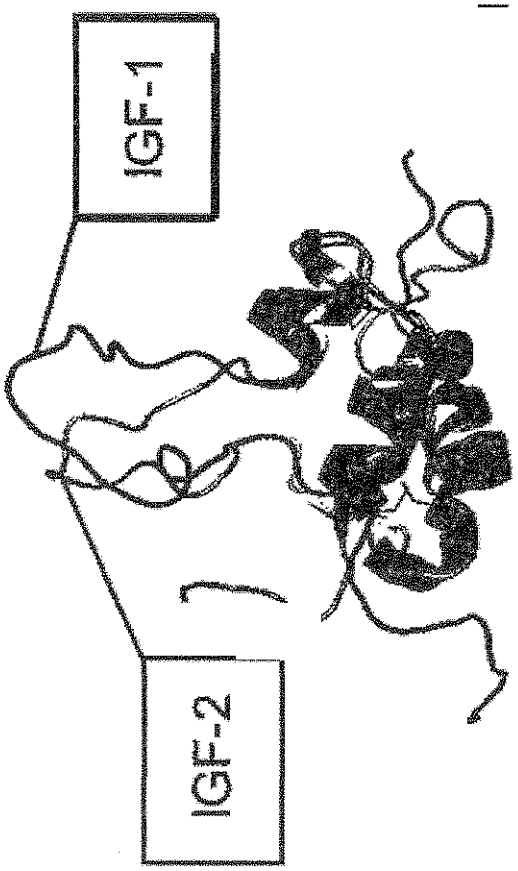


Figure 16



IGF-1: 1PMX

IGF-2 : 1IGL

```
IGF-13  ETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAKS  69
        ||||||.||||.|||||||||||||||:|.  ...||||:  .|| |:|||||||||..||.|||  .|||| 
IGF-26  ETLCGGELVDTLQFVCGDRGFYFSRPA--SRVSRRS--RGIVEECCFRSCDLALLETYCA--TPAKS  66
```

Figure 17

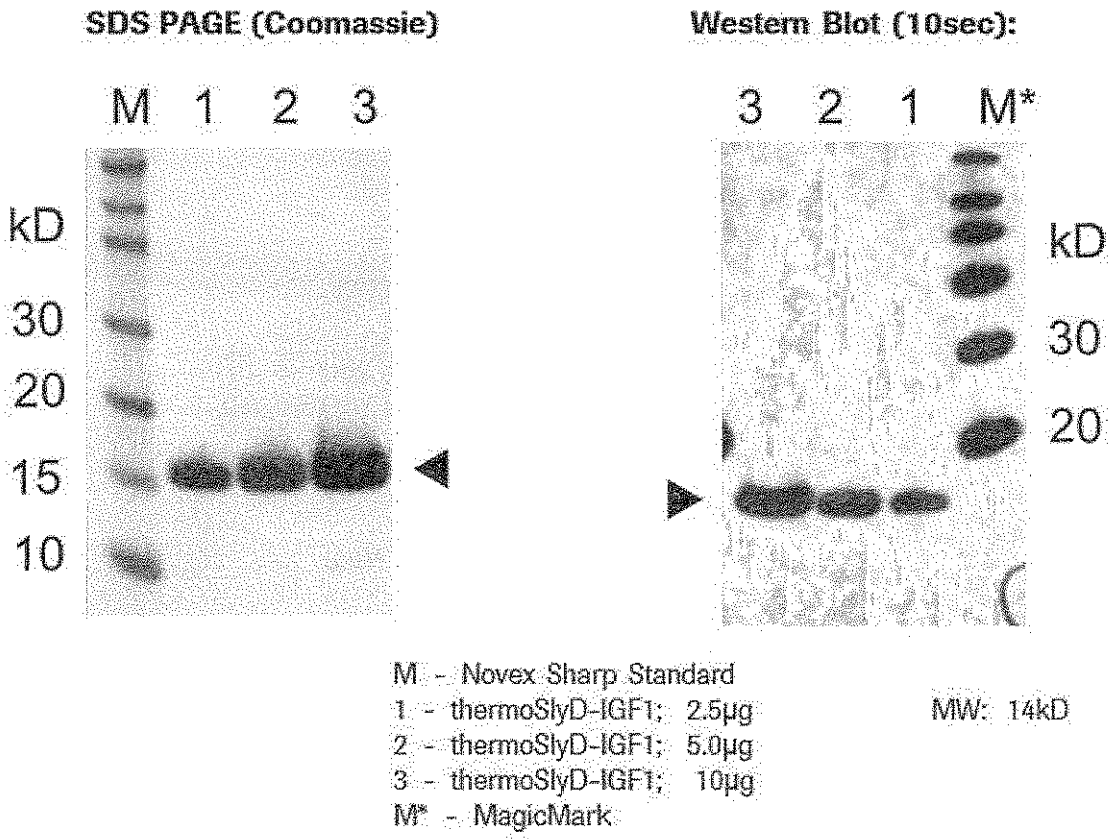

SDS PAGE (Coomassie)
M 1 2 3
kD
30
20
15
10
Western Blot (10sec):
3 2 1 M*
kD
30
20
M - Novex Sharp Standard
1 - thermoSlyD-IGF1; 2.5µg
2 - thermoSlyD-IGF1; 5.0µg
3 - thermoSlyD-IGF1; 10µg
M* - MagicMark
MW: 14kD

Figure 18

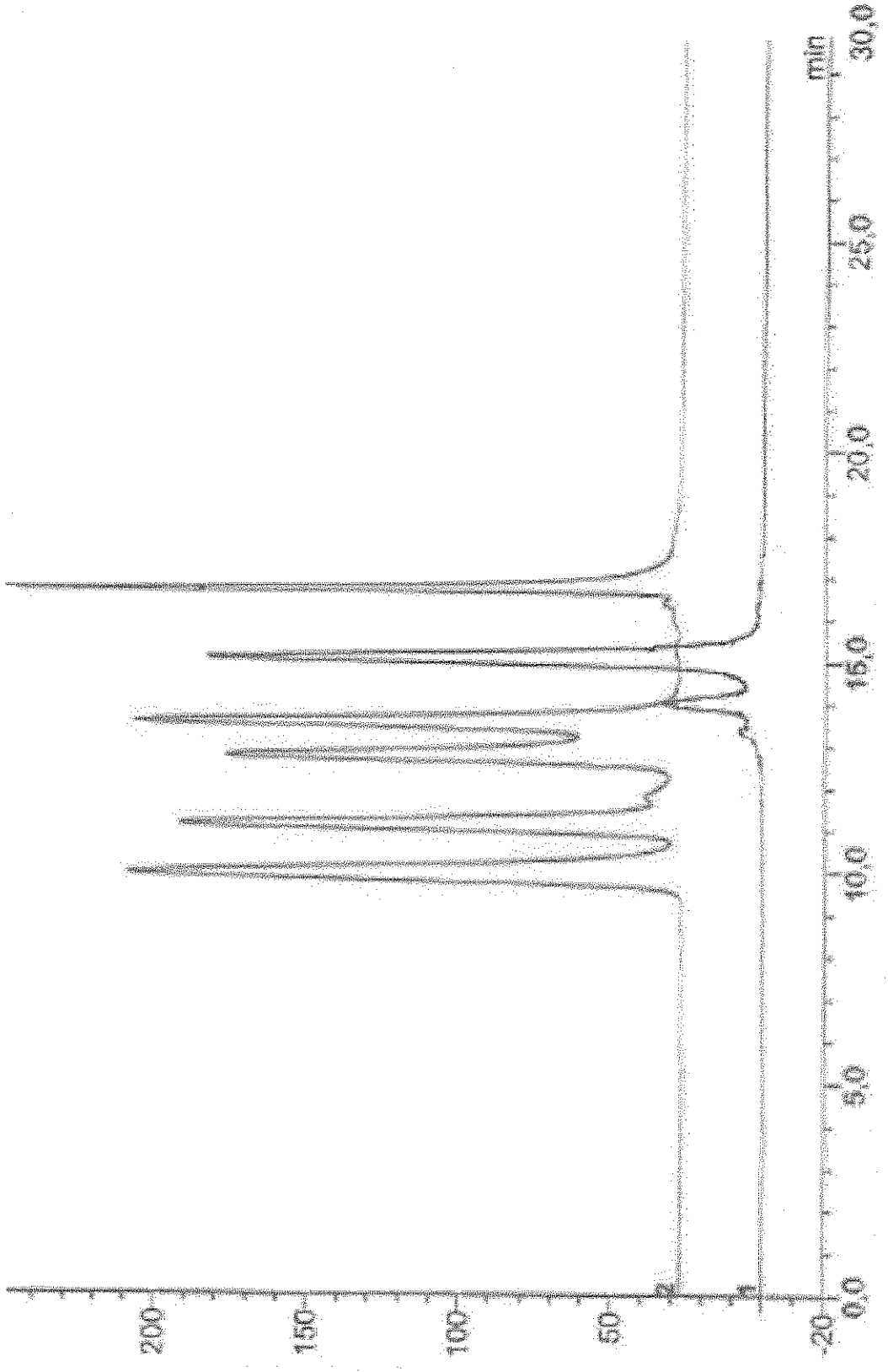


Figure 19

mice no.	mice IC50 serum titer IC50 [mE]	
	IGF-1	SlyD/FKBP12-IGF-1 (74-90)
K1575M1	189	2911
K1575M2	395	1470
K1575M3	465	4126
K1575M4	564	2426
K1576M1	2143	8302
K1576M2	-	2960
K1576M3	-	2978
K1576M4	-	6957
K1576M5	-	11221

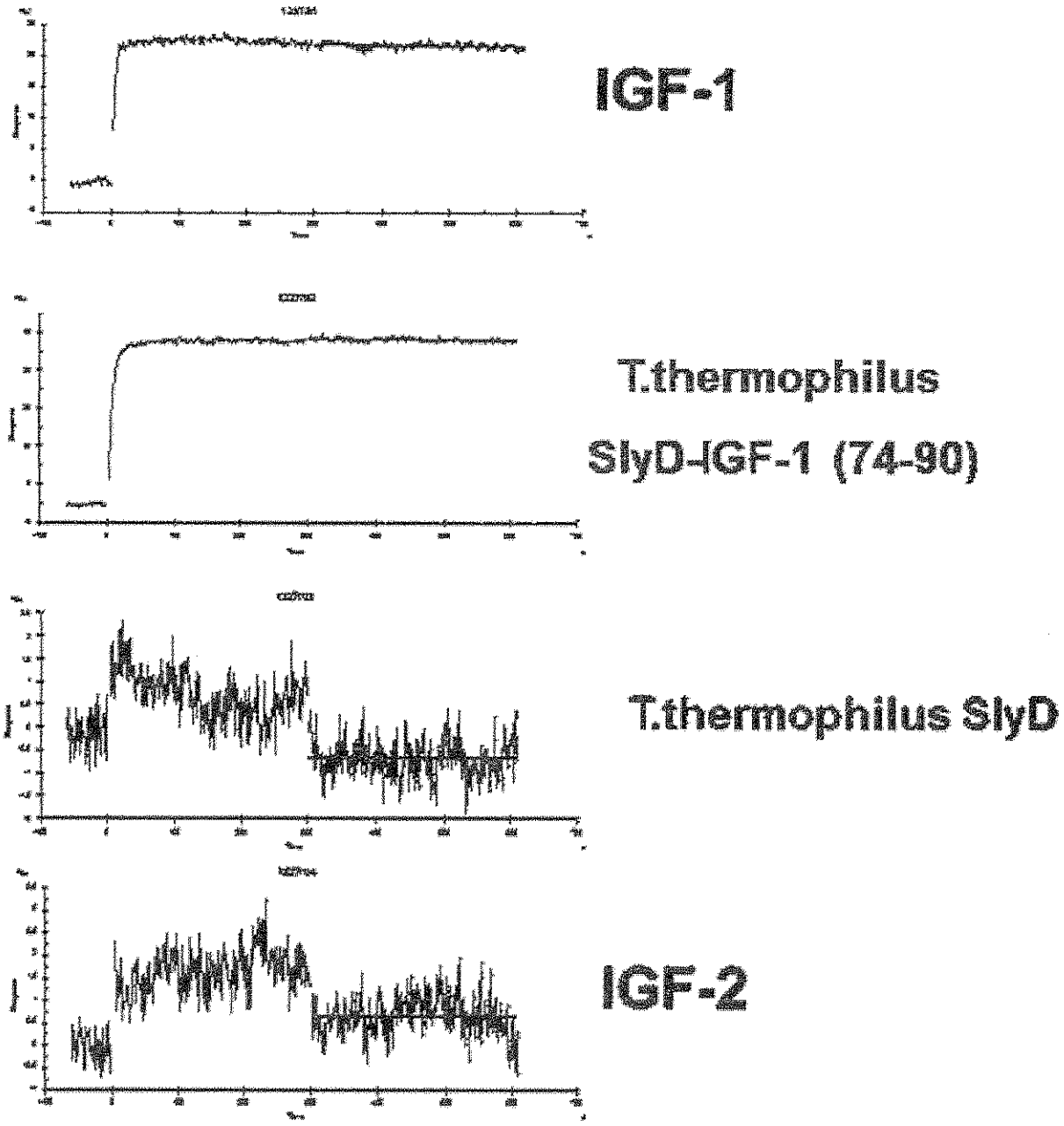
Figure 20

mice no.	mice IC50 serum titer IC50 [mE]	
	IGF-1	*T.thermophilus* SlyD-IGF-1(74-90)
K1643M1	800	10000
K1643M2	1000	15000
K1643M3	4700	50000
K1643M4	500	7000
K1643M5	2500	26000
K1644M1	2800	32000
K1644M2	280	-
K1644M3	250	300
K1644M4	150	800
K1644M5	150	-

Figure 21

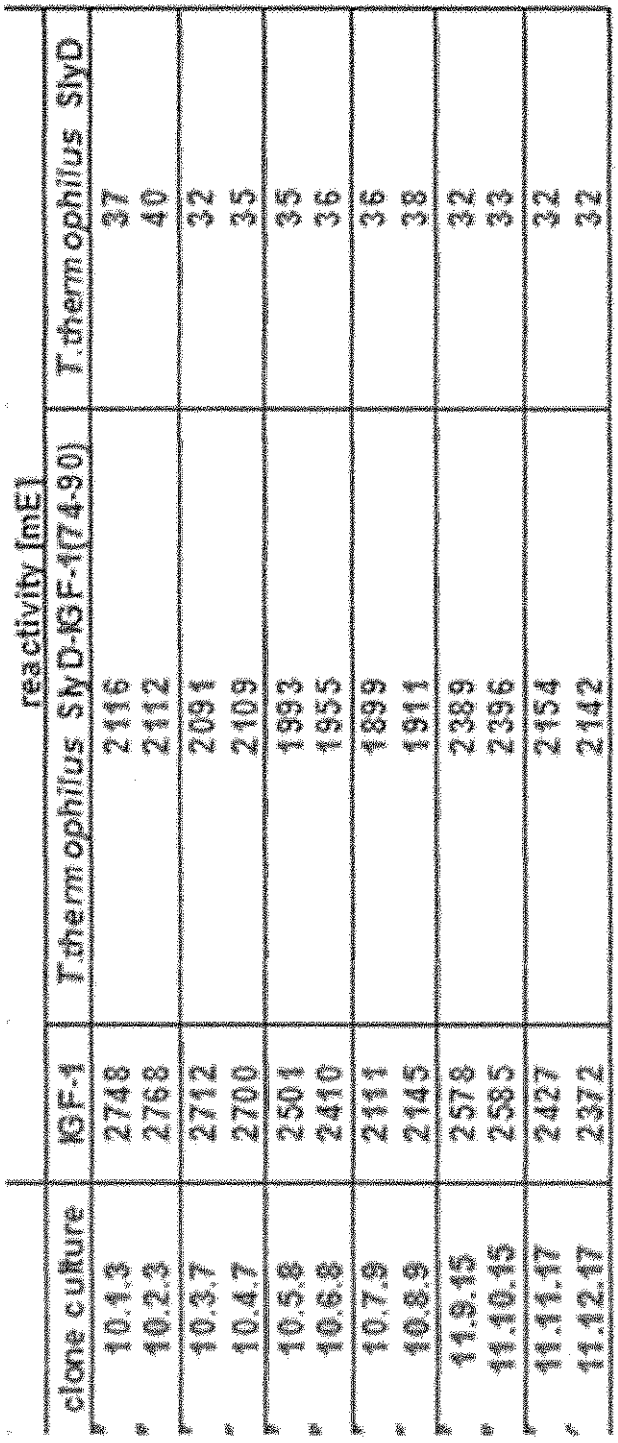
primary culture	*reactivity [mE]*		
no.	*IGF-1*	*T.thermophilus* SlyD-IGF-1(74-90)	*T.thermophilus* SlyD
10.0.1	1013	957	347
10.0.2	217	127	45
10.0.3	941	1061	50
10.0.4	993	1023	900
10.0.5	998	1084	1023
10.0.6	32	56	55
10.0.7	988	1032	64
10.0.8	973	992	46
10.0.9	818	943	35
10.0.10	819	734	35
10.0.11	809	848	160
10.0.12	729	848	42
10.0.13	140	961	741
11.0.14	30	32	33
11.0.15	1087	1156	30
11.0.16	982	977	33
11.0.17	922	1021	28

Figure 22



exemplary sensorgrams for <IGF-1>M-11.0.15

Figure 23



clone culture	reactivity [mE] IGF-1	T.thermophilus SlyD-IGF-1(74-90)	T.thermophilus SlyD
10.1.3	2748	2116	37
" 10.2.3	2768	2112	40
10.3.7	2712	2091	32
" 10.4.7	2700	2109	35
10.5.8	2501	1993	35
" 10.6.8	2410	1955	36
10.7.9	2111	1899	36
" 10.8.9	2145	1911	38
11.9.15	2578	2389	32
" 11.10.15	2585	2396	33
11.11.17	2427	2154	32
" 11.12.17	2372	2142	32

Figure 24

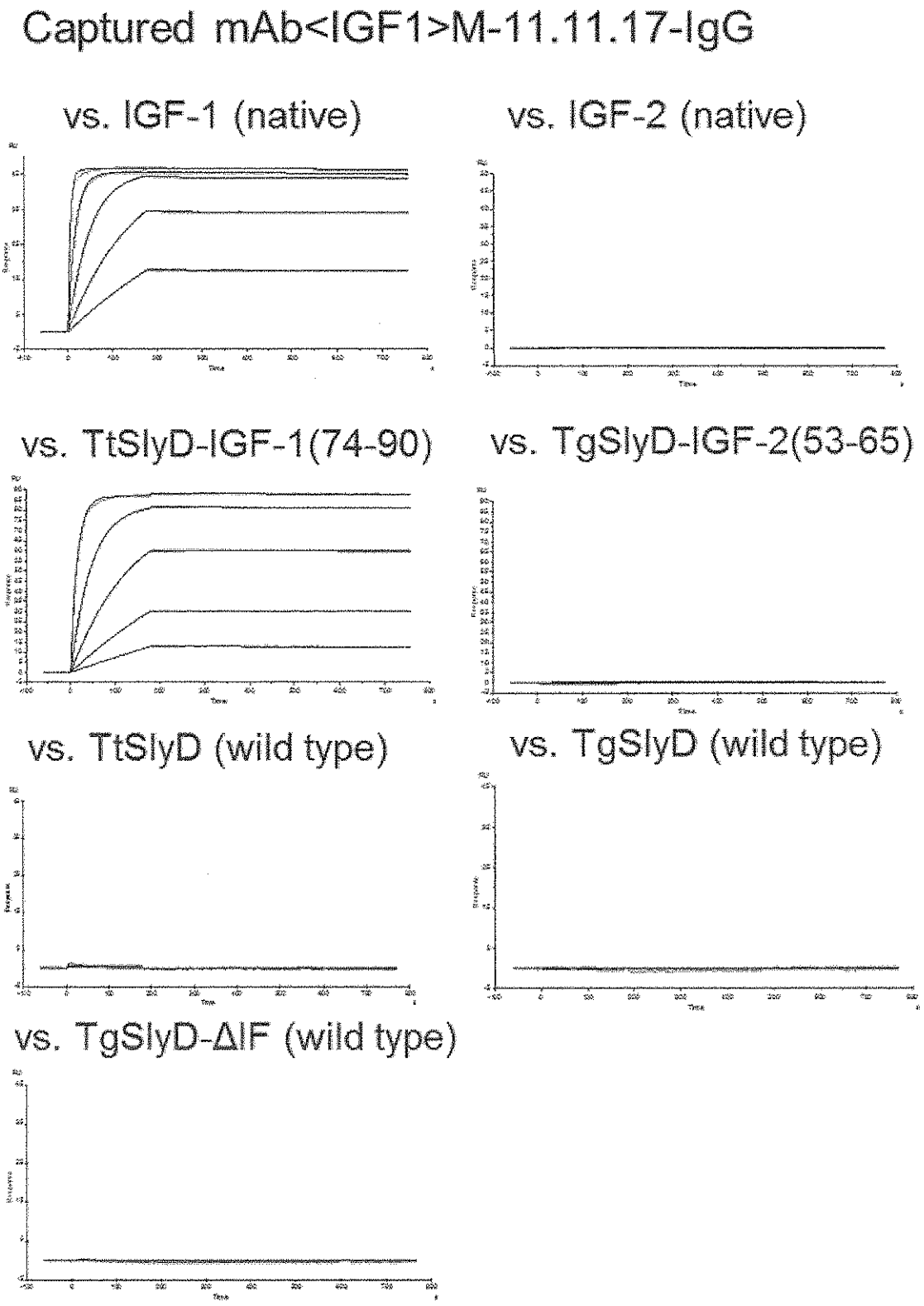

Captured mAb<IGF1>M-11.11.17-IgG
vs. IGF-1 (native)
vs. IGF-2 (native)
vs. TtSlyD-IGF-1(74-90)
vs. TgSlyD-IGF-2(53-65)
vs. TtSlyD (wild type)
vs. TgSlyD (wild type)
vs. TgSlyD-ΔIF (wild type)

Figure 25

mAb	RU	Antigen	kDa	°C	k_a 1/Ms	k_d 1/s	$t_{1/2}$-diss min	K_D nM	R_{max} RU	MR	Chi^2 RU^2
M-11.11.17	457	**IGF-I (native)**	8	25	2,0E+06	2,1E-05	560	**0,01**	46	2,0	0,0
	439	IGF-II (native)	8		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	432	**TtSlyD-IGF-1(74-90)**	14		7,1E+05	1,0E-05	1113	**0,01**	83	2,0	0,0
	427	TgSlyD-IGF-2(53-65)	14		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	421	TtSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	419	TgSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	418	TgSlyD-dIF-wt	15		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
M-10.7.9	512	**hIGF-I (native)**	8	25	9,2E+05	1,5E-03	8	**1,6**	44	1,7	0,0
	494	hIGF-II (native)	8		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	485	**TtSlyD-IGF-1(74-90)**	14		2,9E+05	6,9E-04	17	**2,4**	84	1,8	0,0
	479	TgSlyD-IGF-2(53-65)	14		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	470	TtSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	468	TgSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	465	TgSlyD-dIF-wt	15		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
M-2.28.44	731	**hIGF-I (native)**	8	25	3,9E+06	1,3E-04	92	**0,03**	68	1,8	0,0
	717	**hIGF-II (native)**	8		4,9E+06	2,4E-03	5	**0,5**	67	1,8	0,3
	704	TtSlyD-IGF-1(74-90)	14		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	693	TgSlyD-IGF-2(53-65)	14		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	673	TtSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	664	TgSlyD-wt	18		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	655	TgSlyD-dIF-wt	15		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Figure 26

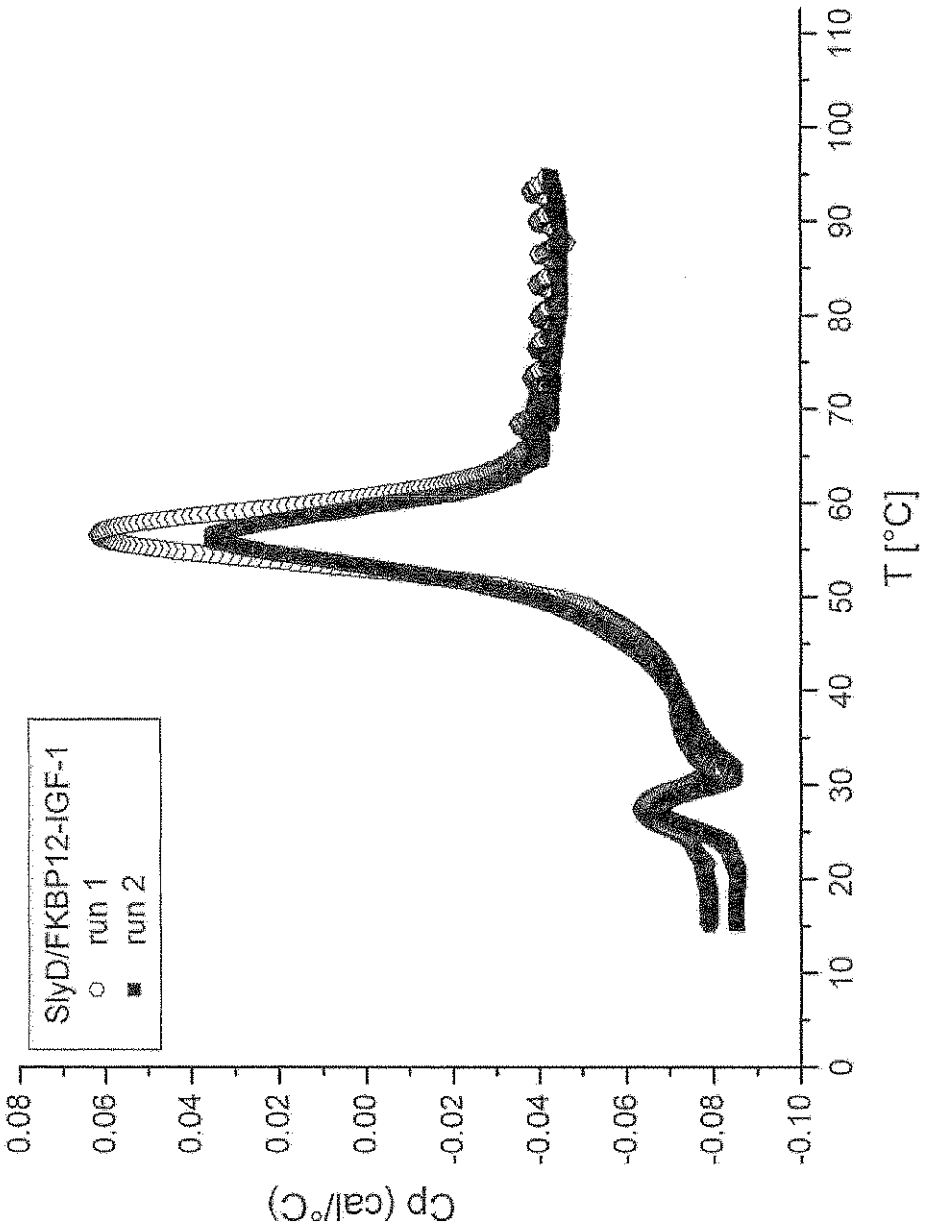

SlyD/FKBP12-IGF-1
run 1
run 2
Cp (cal/°C)
T [°C]
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
-0.10
0
10
20
30
40
50
60
70
80
90
100
110

Figure 27

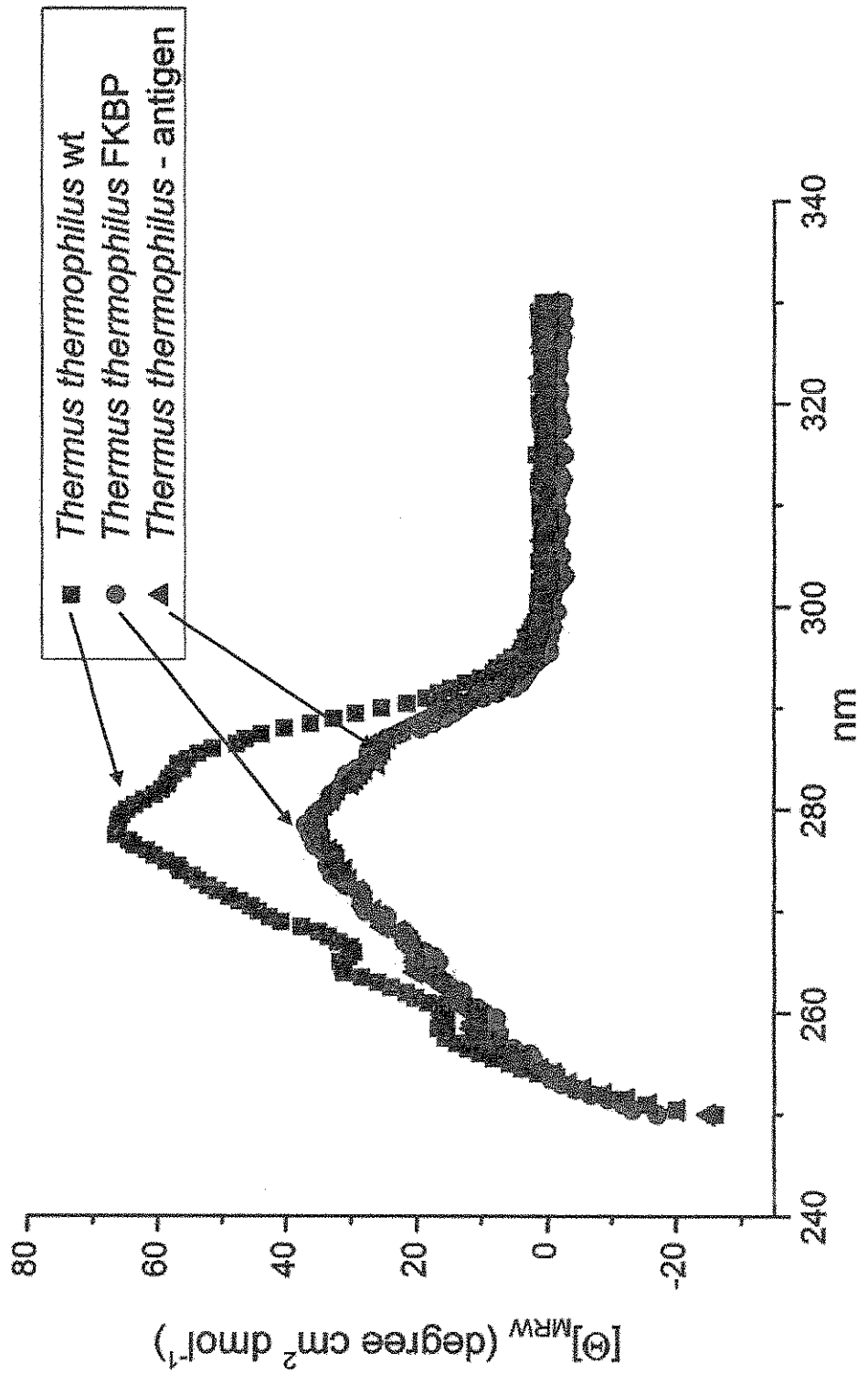

Thermus thermophilus wt
Thermus thermophilus FKBP
Thermus thermophilus - antigen
[Θ]MRW (degree cm² dmol⁻¹)
80
60
40
20
0
-20
240
260
280
300
320
340
nm

Figure 28

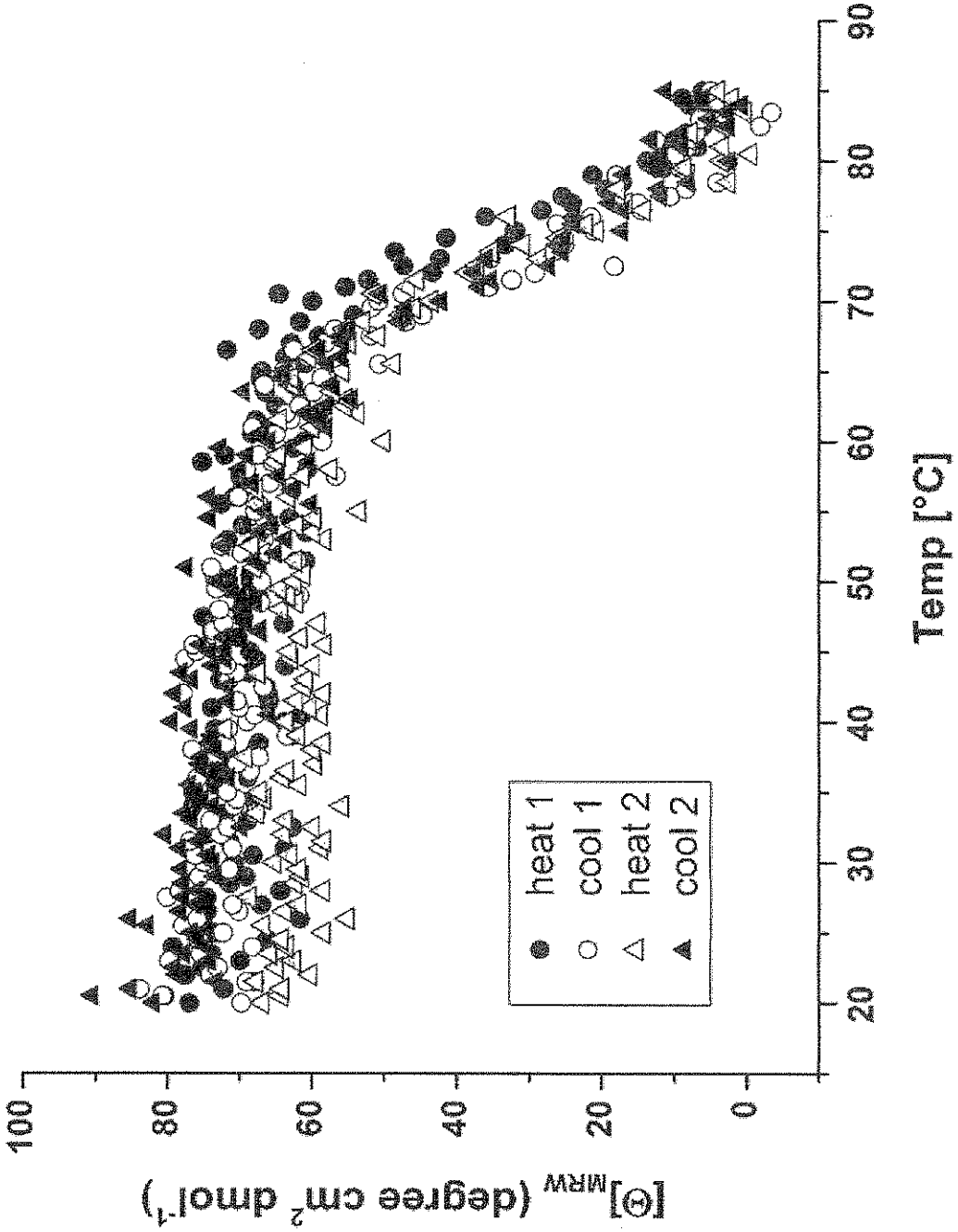

[Θ]MRW (degree cm2 dmol-1)
100
80
60
40
20
0
Temp [°C]
20
30
40
50
60
70
80
90
heat 1
cool 1
heat 2
cool 2

Figure 29

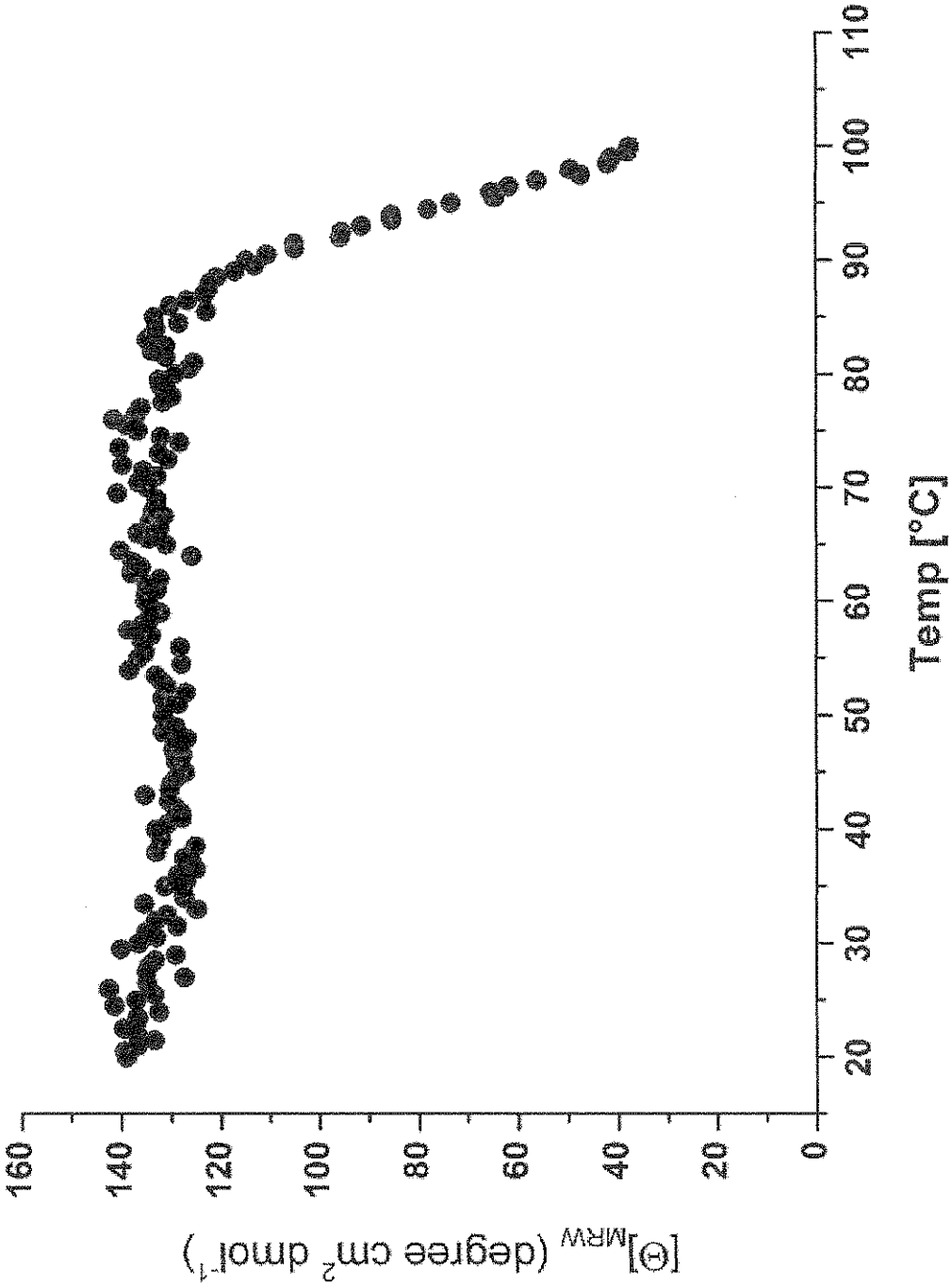

[Θ]MRW (degree cm2 dmol-1)
160
140
120
100
80
60
40
20
0
Temp [°C]
20
30
40
50
60
70
80
90
100
110

Figure 30

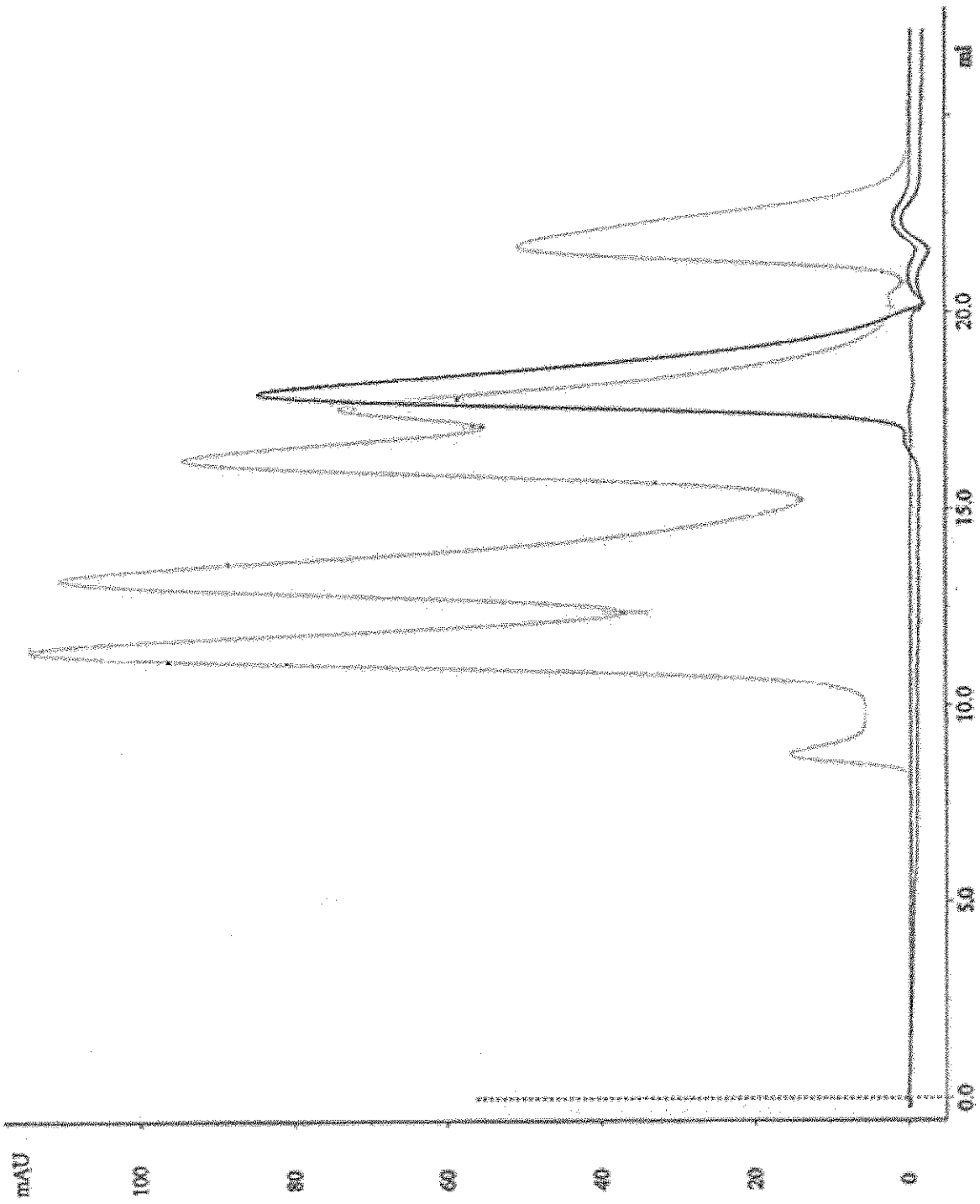
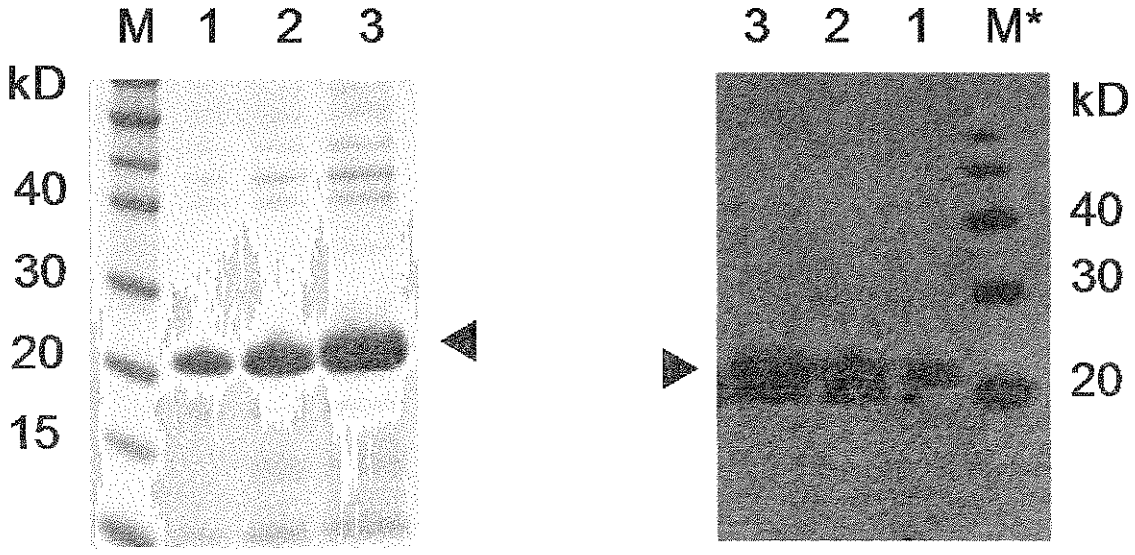


Figure 31



M - Novex Sharp Standard
1 - thermoSlyD-wt; 2.5µg
2 - thermoSlyD-wt; 5.0µg
3 - thermoSlyD-wt; 10µg
M* - MagicMark

MW: 18kD

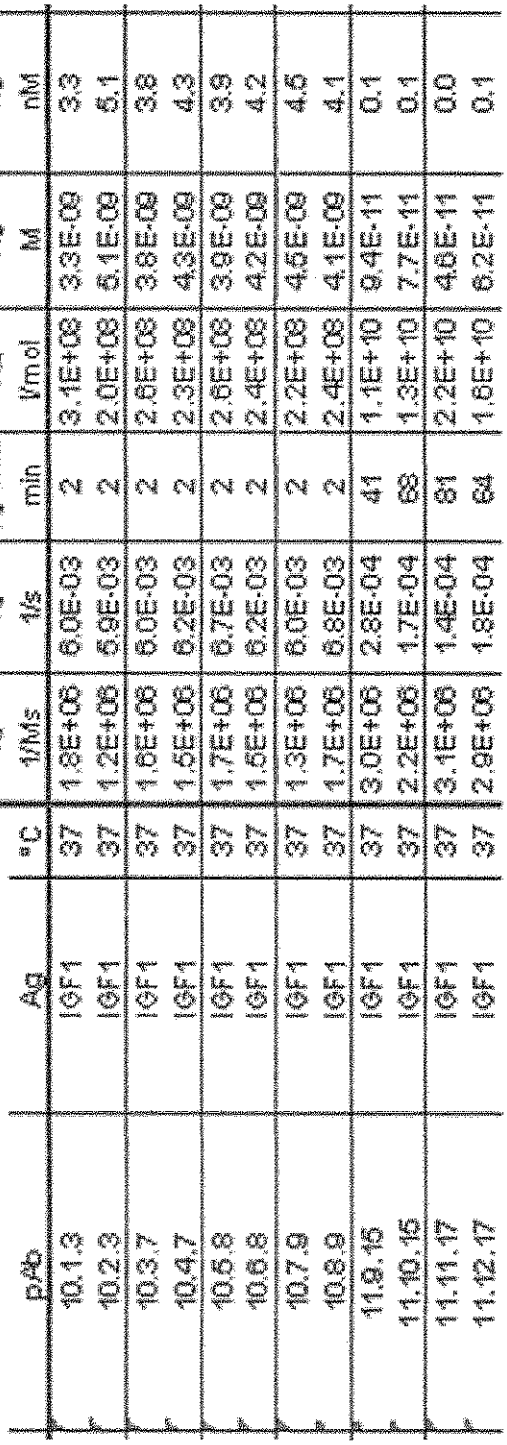
Figure 32A

Ligand	Analyte	BL [RU]	SL [RU]	kd [1/s]	t/2 diss [min]
10.0.15	**IGF1**	22	22	**4.08E-05**	**283**
10.0.15	thermoSlyD-IGF-1	43	43	**3.66E-05**	**315**
10.0.15	thermoSlyD (wildtyp)	1	-1	n.d.	n.d.
10.0.15	**IGF2**	2	0	n.d.	n.d.
10.0.17	**IGF1**	9	8	**1.33E-04**	**87**
10.0.17	thermoSlyD-IGF-1	18	17	**1.25E-04**	**92**
10.0.17	thermoSlyD (wildtyp)	2	-1	n.d.	n.d.
10.0.17	**IGF2**	2	0	n.d.	n.d.
10.0.01	IGF1	4	2	**1.43E-03**	**8**
10.0.01	thermoSlyD-IGF-1	18	16	**4.21E-04**	**27**
10.0.01	thermoSlyD (wildtyp)	13	12	**1.39E-04**	**83**
10.0.01	IGF2	1	0	n.d.	n.d.
10.0.03	IGF1	16	12	**7.43E-04**	**16**
10.0.03	thermoSlyD-IGF-1	35	31	**3.86E-04**	**30**
10.0.03	thermoSlyD (wildtyp)	3	1	n.d.	n.d.
10.0.03	IGF2	3	1	n.d.	n.d.
10.0.04	IGF1	6	5	**2.93E-04**	**39**
10.0.04	thermoSlyD-IGF-1	23	16	**6.58E-04**	**18**
10.0.04	thermoSlyD (wildtyp)	16	4	**2.40E-03**	**5**
10.0.04	IGF2	2	0	n.d.	n.d.
10.0.05	IGF1	7	6	**8.04E-04**	**14**
10.0.05	thermoSlyD-IGF-1	38	35	**3.02E-04**	**38**
10.0.05	thermoSlyD (wildtyp)	31	28	**1.96E-04**	**59**
10.0.05	IGF2	2	0	n.d.	n.d.
10.0.07	IGF1	18	13	**9.26E-04**	**12**
10.0.07	thermoSlyD-IGF-1	37	31	**5.08E-04**	**23**
10.0.07	thermoSlyD (wildtyp)	0	-2	n.d.	n.d.
10.0.07	IGF2	1	-1	n.d.	n.d.
10.0.08	IGF1	17	11	**1.31E-03**	**9**
10.0.08	thermoSlyD-IGF-1	35	29	**6.40E-04**	**18**
10.0.08	thermoSlyD (wildtyp)	2	1	n.d.	n.d.
10.0.08	IGF2	2	1	n.d.	n.d.

Figure 32B

3	2	1	M*		°C	K_d 1/s	$t_{1/2}$-diss in h
		10.1.3	IGF1		37	3.25E-04	36
		10.1.3	IGF2		37		
		10.1.3	IGF1/D-GF1		37	1.00E-05	1155
		10.1.3	IGF1/d-wt		37		
		10.2.3	IGF1		37	6.90E-04	13
		10.2.3	IGF2		37		
		10.2.3	IGF1/D-GF1		37	1.00E-05	1155
		10.2.3	IGF1/d-wt		37		
		10.3.7	IGF1		37	1.16E-03	10
		10.3.7	IGF2		37		
		10.3.7	IGF1/D-GF1		37	1.00E-05	1155
		10.3.7	IGF1/d-wt		37		
		10.4.7	IGF1		37	1.00E-05	1155
		10.4.7	IGF2		37		
		10.4.7	IGF1/D-GF1		37	1.00E-05	1155
		10.4.7	IGF1/d-wt		37		
		10.5.8	IGF1		37	1.00E-05	1155
		10.5.8	IGF2		37		
		10.5.8	IGF1/D-GF1		37	1.00E-05	1155
		10.5.8	IGF1/d-wt		37		
		10.6.8	IGF1		37	1.25E-04	92
		10.6.8	IGF2		37		
		10.6.8	IGF1/D-GF1		37	1.00E-05	1155
		10.6.8	IGF1/d-wt		37		
		10.7.9	IGF1		37	1.00E-05	1155
		10.7.9	IGF2		37		
		10.7.9	IGF1/D-GF1		37	1.00E-05	1155
		10.7.9	IGF1/d-wt		37		
		10.8.9	IGF1		37	1.00E-05	1155
		10.8.9	IGF2		37		
		10.8.9	IGF1/D-GF1		37	1.00E-05	1155
		10.8.9	IGF1/d-wt		37		
		11.9.15	IGF1		37	1.00E-05	1155
		11.9.15	IGF2		37		
		11.9.15	IGF1/D-GF1		37	1.00E-05	1155
		11.9.15	IGF1/d-wt		37		
		11.10.15	IGF1		37	1.00E-05	1155
		11.10.15	IGF2		37		
		11.10.15	IGF1/D-GF1		37	1.00E-05	1155
		11.10.15	IGF1/d-wt		37		
		11.11.17	IGF1		37	1.00E-05	1155
		11.11.17	IGF2		37		
		11.11.17	IGF1/D-GF1		37	1.00E-05	1155
		11.11.17	IGF1/d-wt		37		
		11.12.17	IGF1		37	1.00E-05	1155
		11.12.17	IGF2		37		
		11.12.17	IGF1/D-GF1		37	1.00E-05	1155
		11.12.17	IGF1/d-wt		37		

Figure 33



pAb	Ag	°C	k_a 1/Ms	k_d 1/s	$t_{1/2}$-diss min	K_A l/mol	K_D M	K_D nM
10.1.3	IGF1	37	1.8E+06	6.0E-03	2	3.1E+08	3.3E-09	3.3
10.2.3	IGF1	37	1.2E+06	5.9E-03	2	2.0E+08	5.1E-09	5.1
10.3.7	IGF1	37	1.6E+06	6.0E-03	2	2.6E+08	3.8E-09	3.8
10.4.7	IGF1	37	1.5E+06	6.2E-03	2	2.3E+08	4.3E-09	4.3
10.5.8	IGF1	37	1.7E+06	6.7E-03	2	2.6E+08	3.9E-09	3.9
10.6.8	IGF1	37	1.5E+06	6.2E-03	2	2.4E+08	4.2E-09	4.2
10.7.9	IGF1	37	1.3E+06	6.0E-03	2	2.2E+08	4.5E-09	4.5
10.8.9	IGF1	37	1.7E+06	6.8E-03	2	2.4E+08	4.1E-09	4.1
11.9.15	IGF1	37	3.0E+06	2.8E-04	41	1.1E+10	9.4E-11	0.1
11.10.15	IGF1	37	2.2E+06	1.7E-04	68	1.3E+10	7.7E-11	0.1
11.11.17	IGF1	37	3.1E+06	1.4E-04	81	2.2E+10	4.6E-11	0.0
11.12.17	IGF1	37	2.9E+06	1.8E-04	64	1.6E+10	6.2E-11	0.1

Figure 34

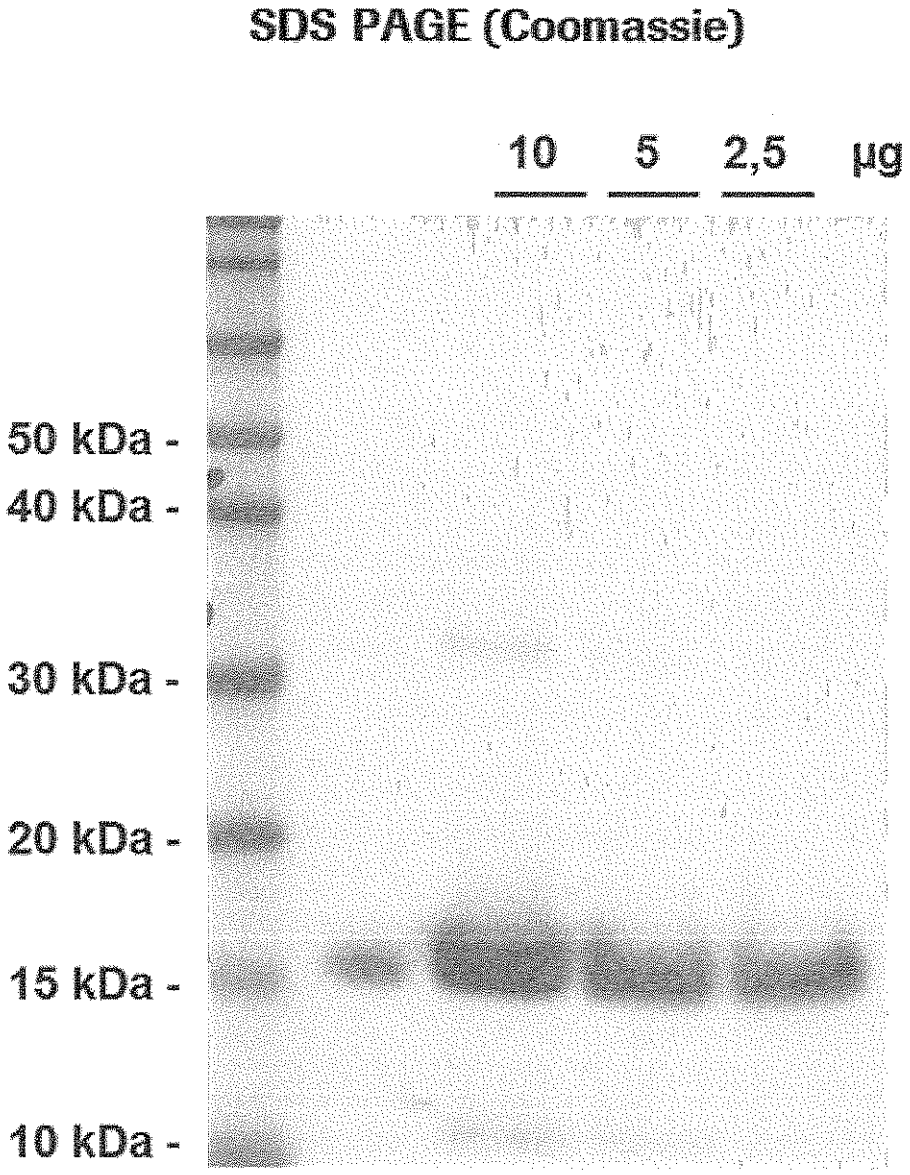

SDS PAGE (Coomassie)
10
5
2,5
µg
50 kDa -
40 kDa -
30 kDa -
20 kDa -
15 kDa -
10 kDa -

Figure 35

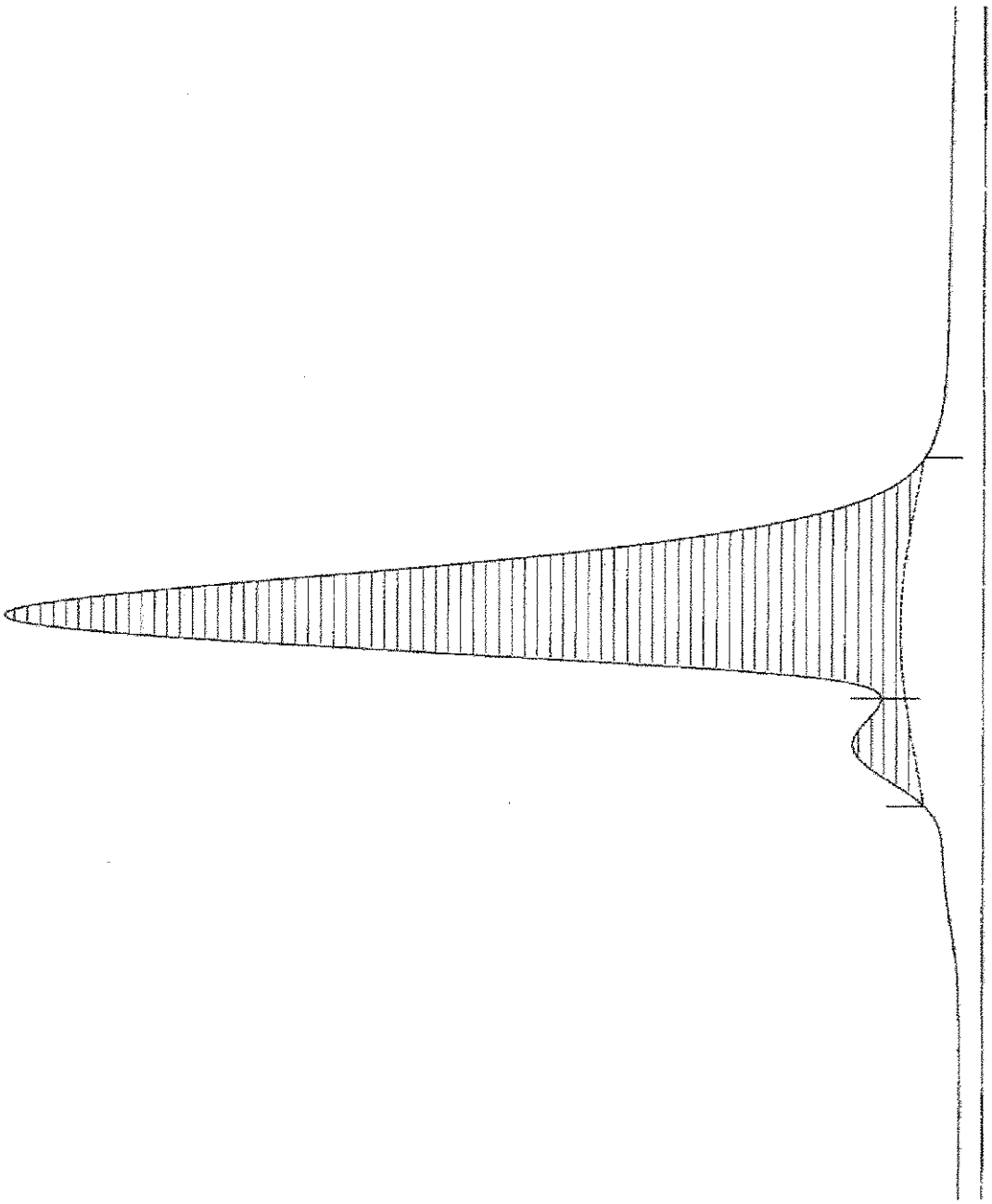


Figure 36

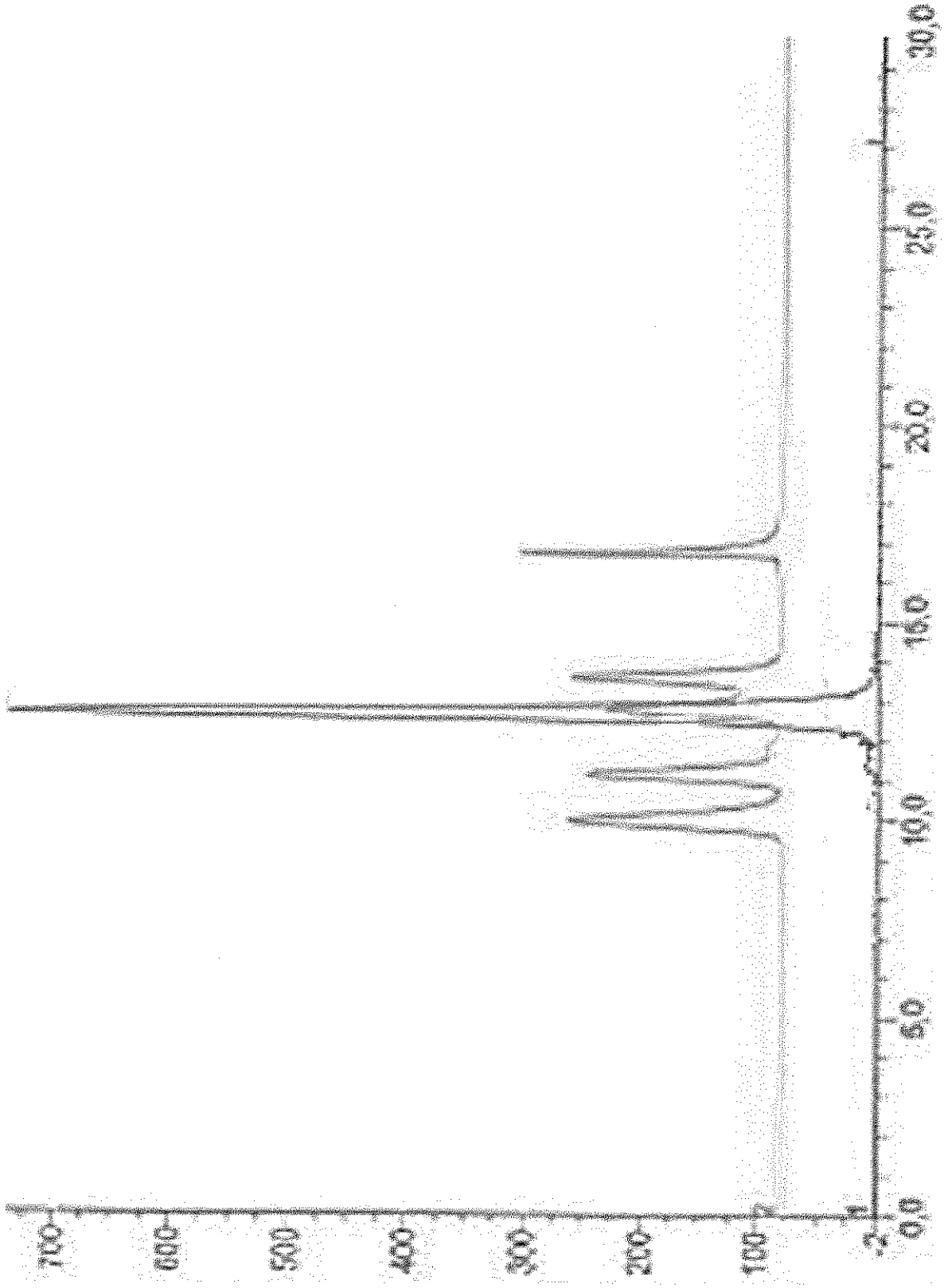


Figure 37

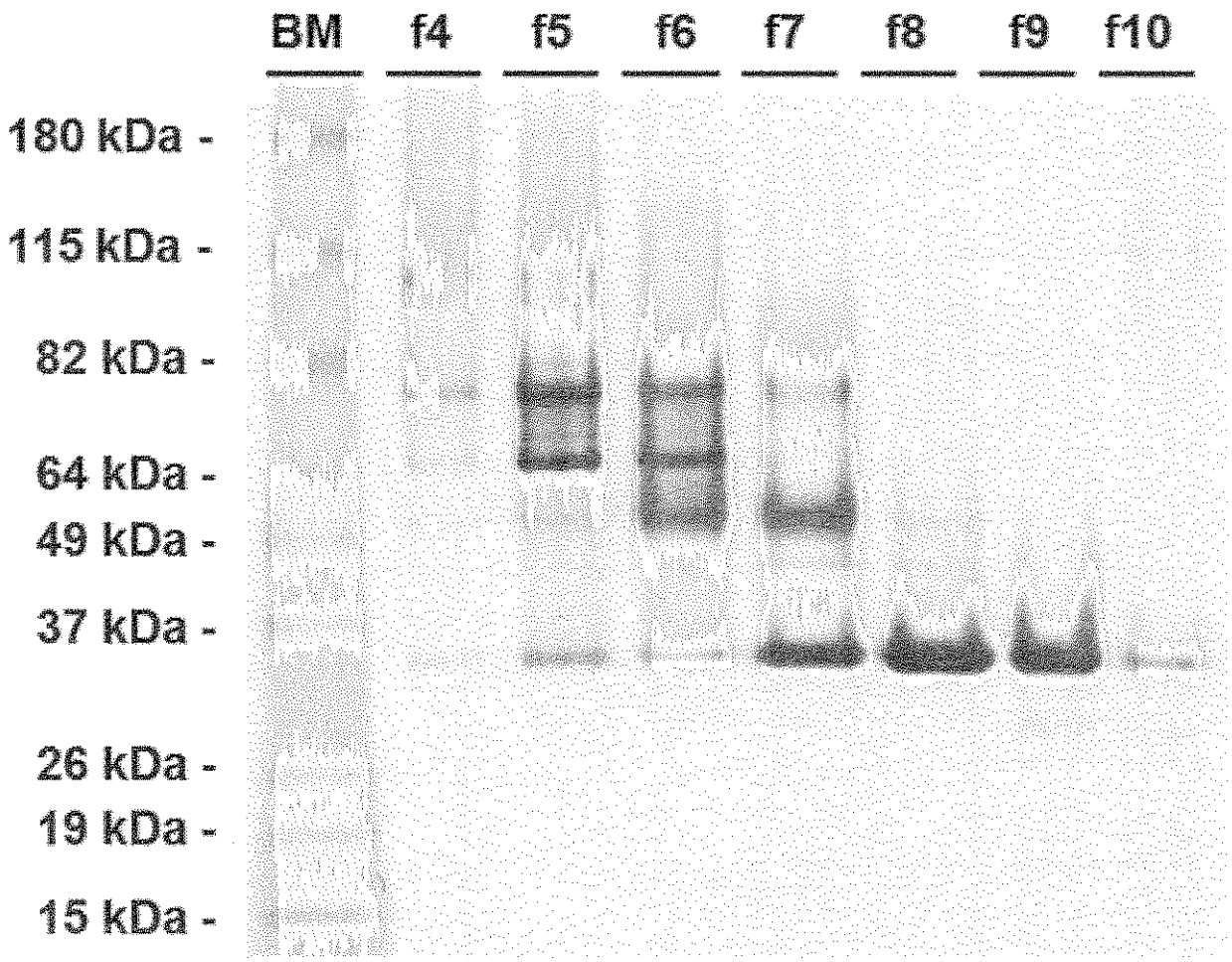

BM
f4
f5
f6
f7
f8
f9
f10
180 kDa -
115 kDa -
82 kDa -
64 kDa -
49 kDa -
37 kDa -
26 kDa -
19 kDa -
15 kDa -

Figure 38

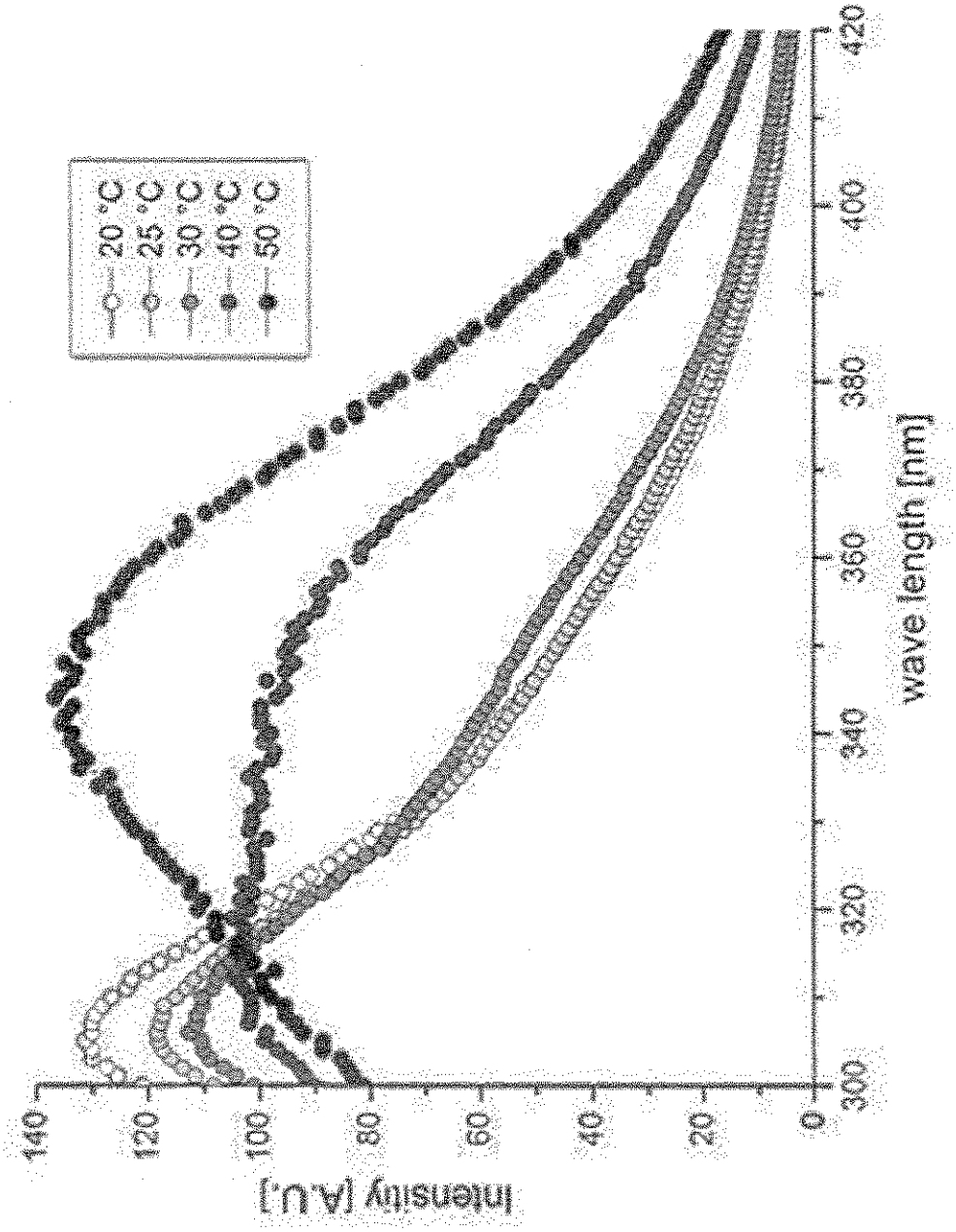

20 °C
25 °C
30 °C
40 °C
50 °C
wave length [nm]
300
320
340
360
380
400
420
Intensity [A.U.]
0
20
40
60
80
100
120
140

Figure 39

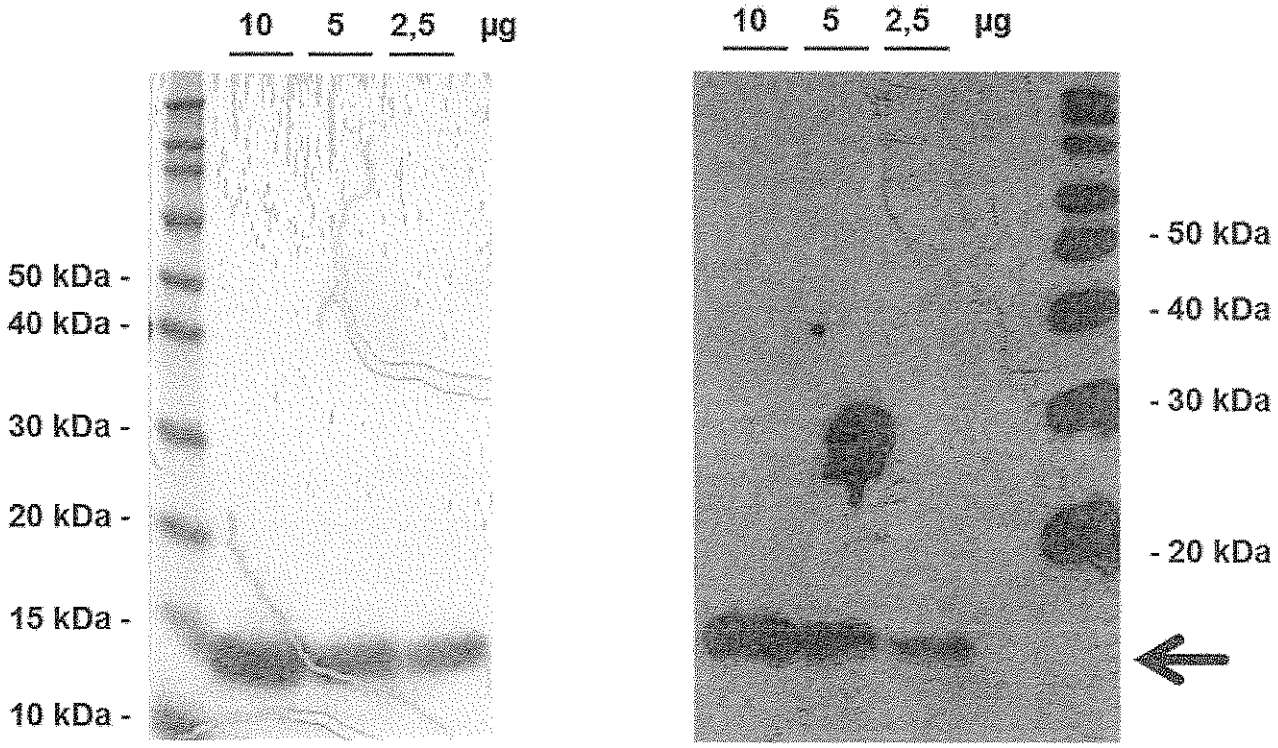

10 5 2,5 µg
50 kDa -
40 kDa -
30 kDa -
20 kDa -
15 kDa -
10 kDa -
10 5 2,5 µg
- 50 kDa
- 40 kDa
- 30 kDa
- 20 kDa

Figure 40

