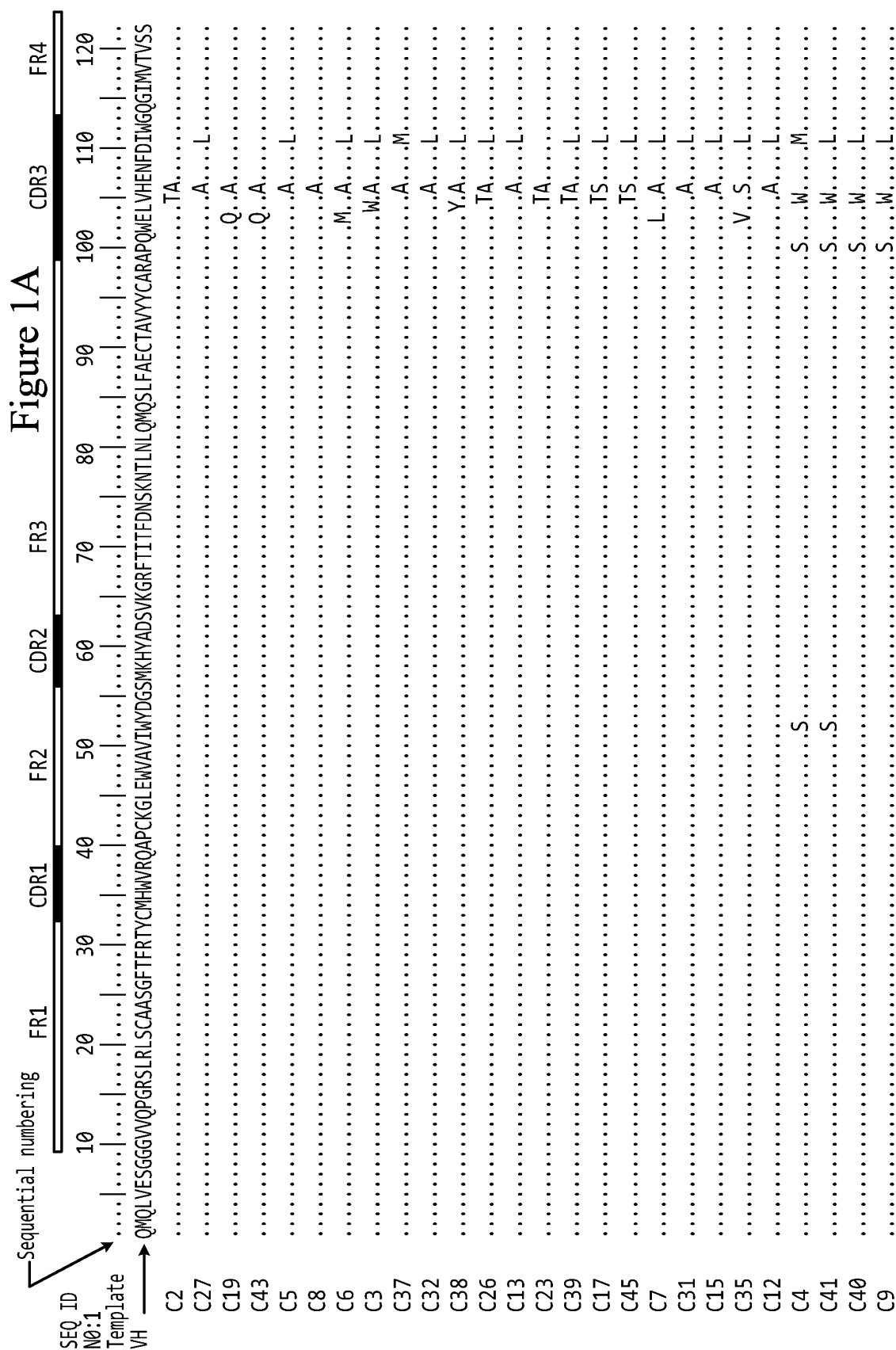
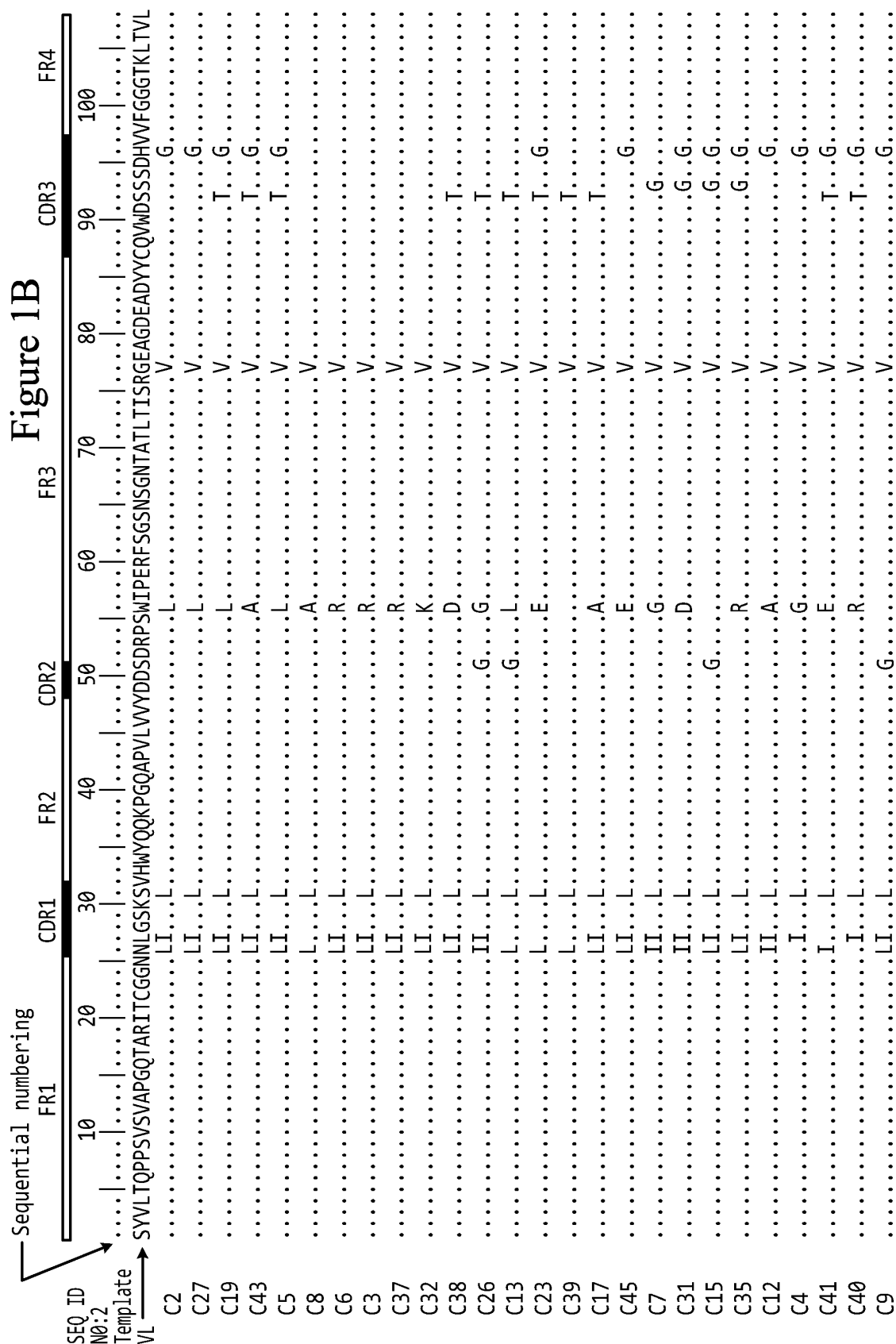
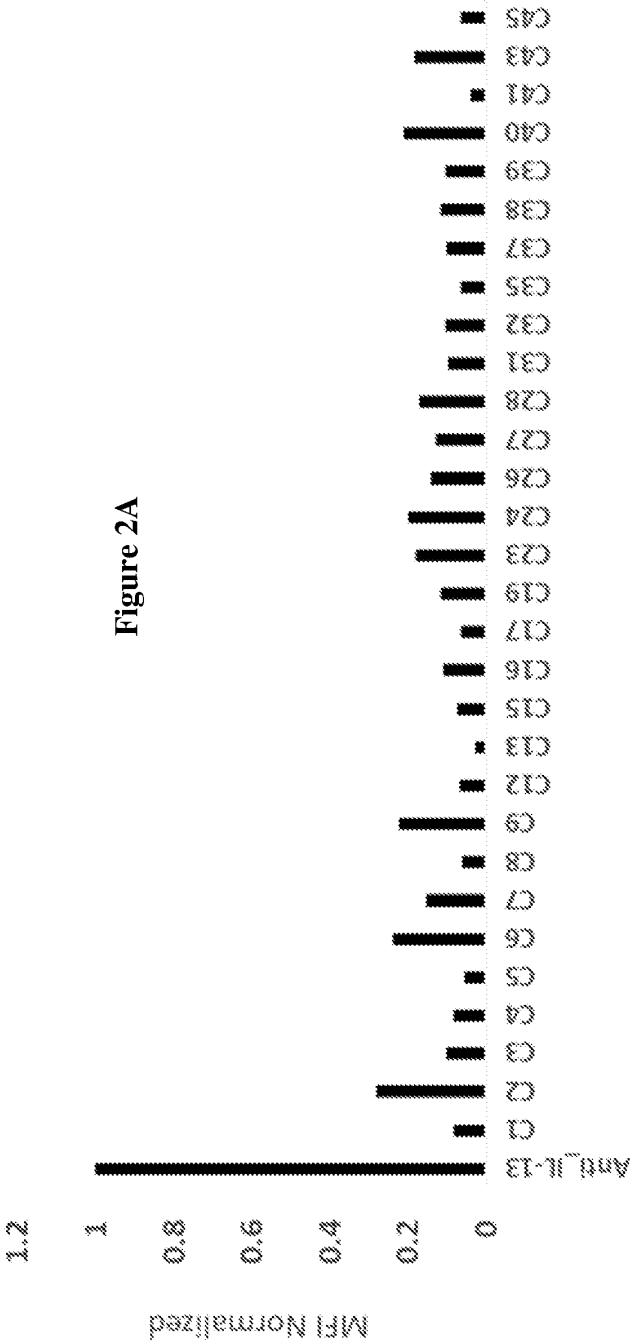






IL-13 YSD binding

Figure 2A



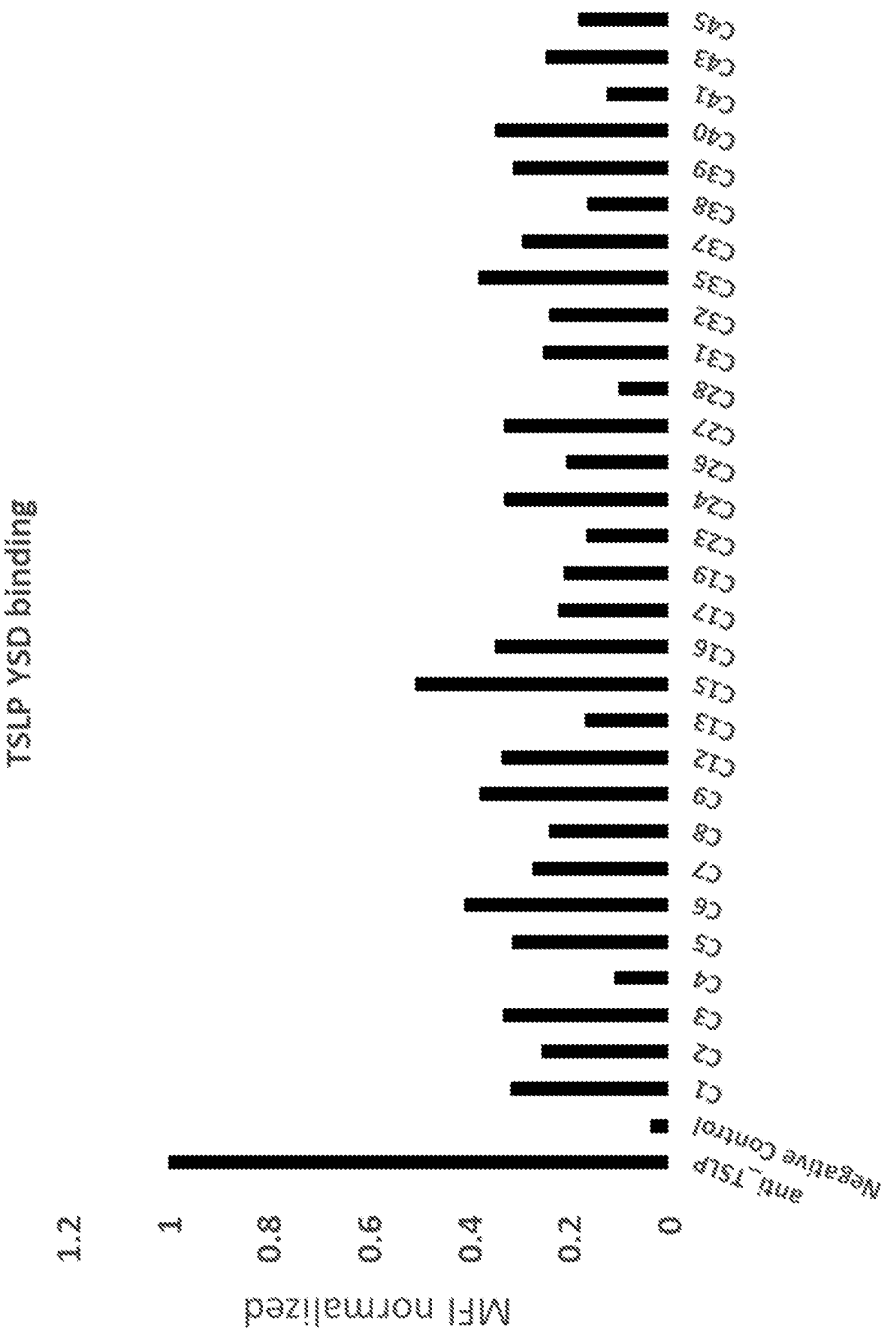


Figure 2B

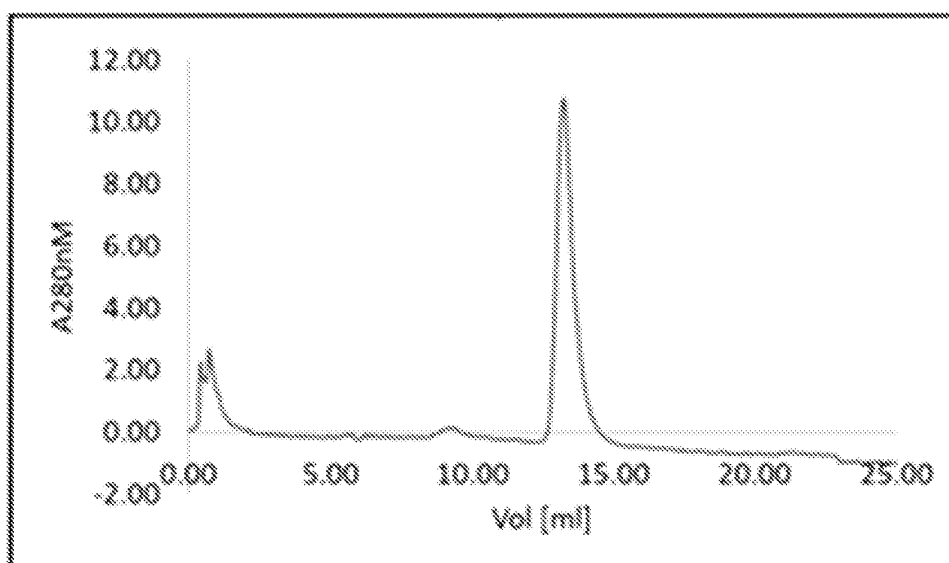


Figure 3A

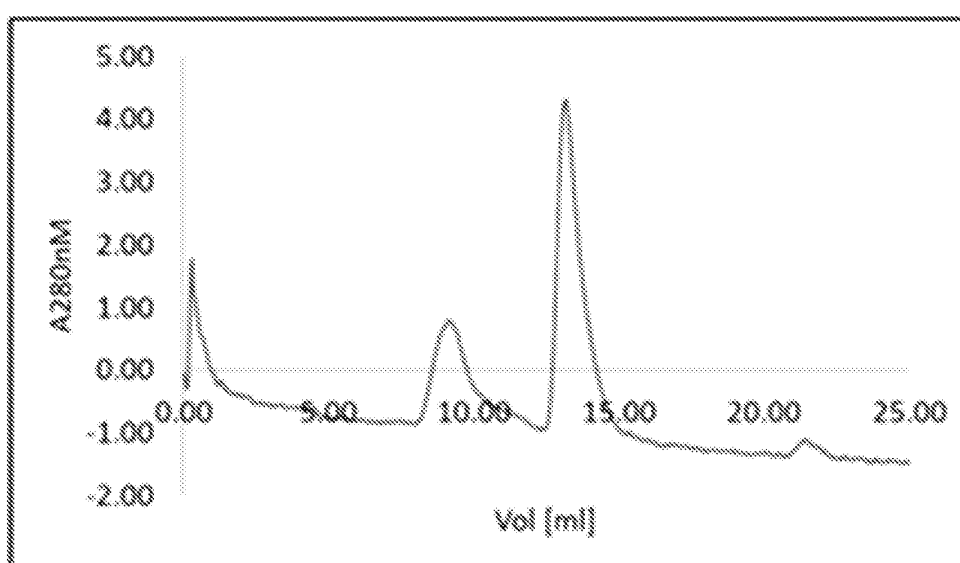


Figure 3B

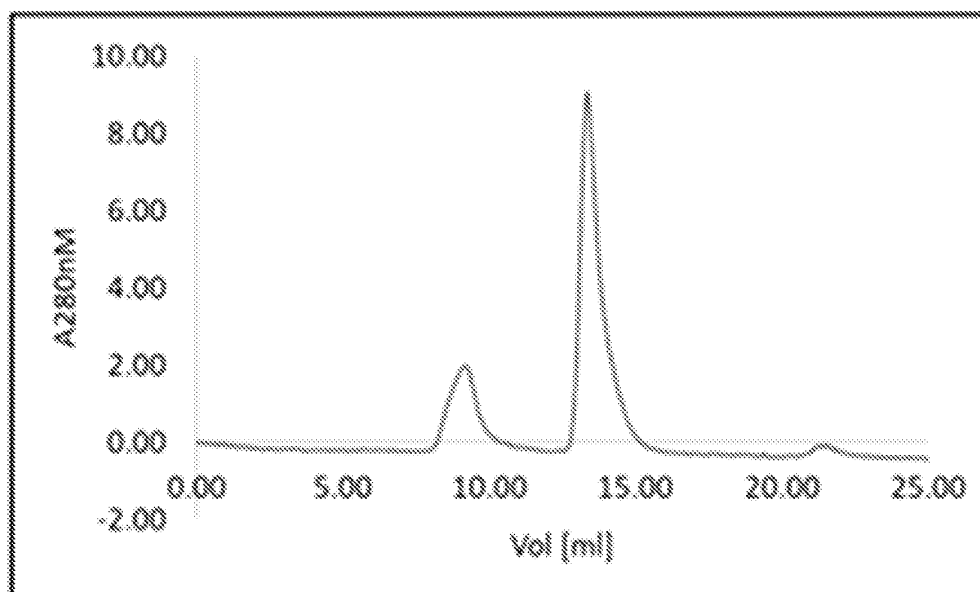


Figure 3C

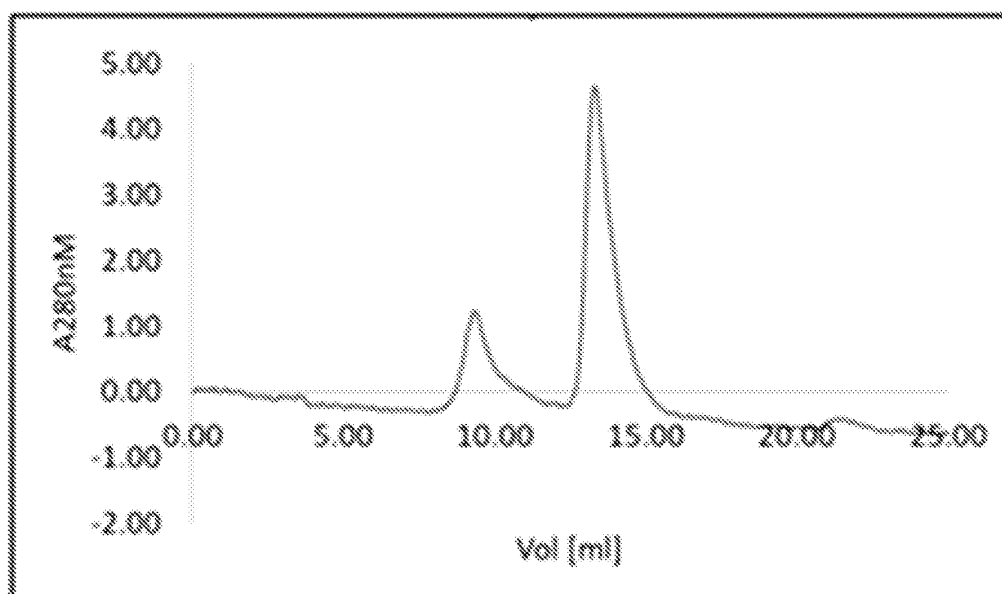


Figure 3D

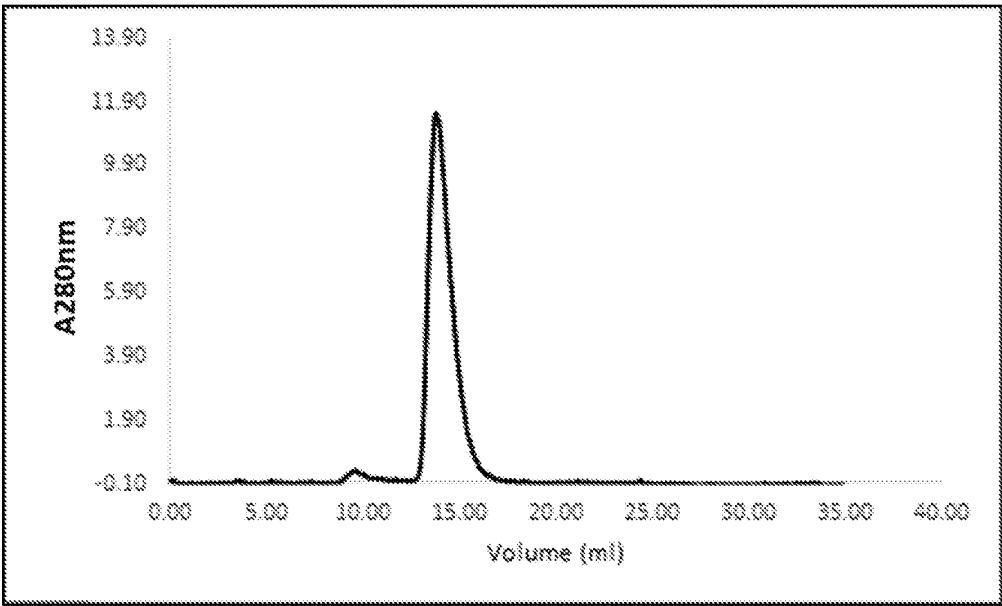


Figure 3E

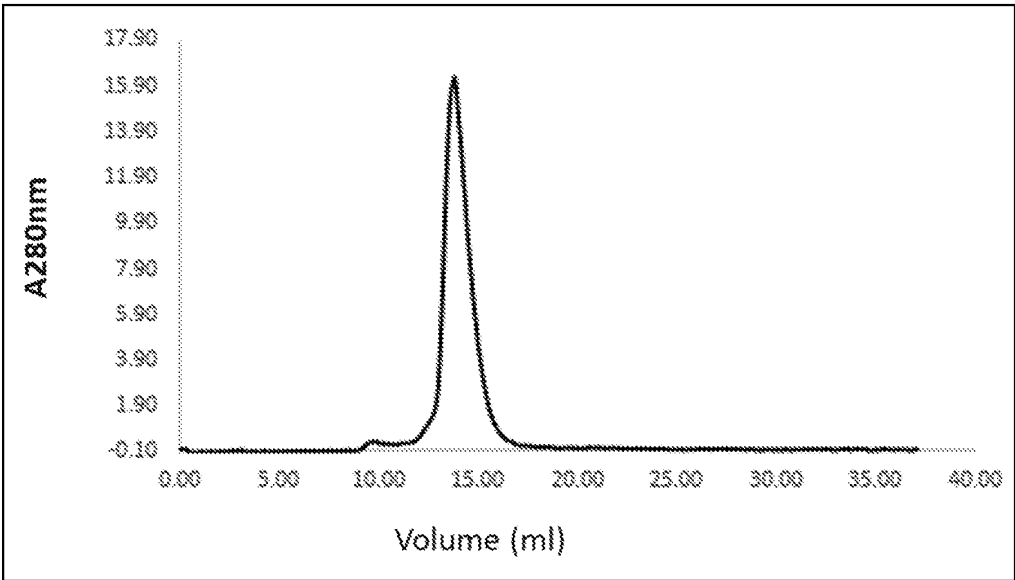


Figure 3F

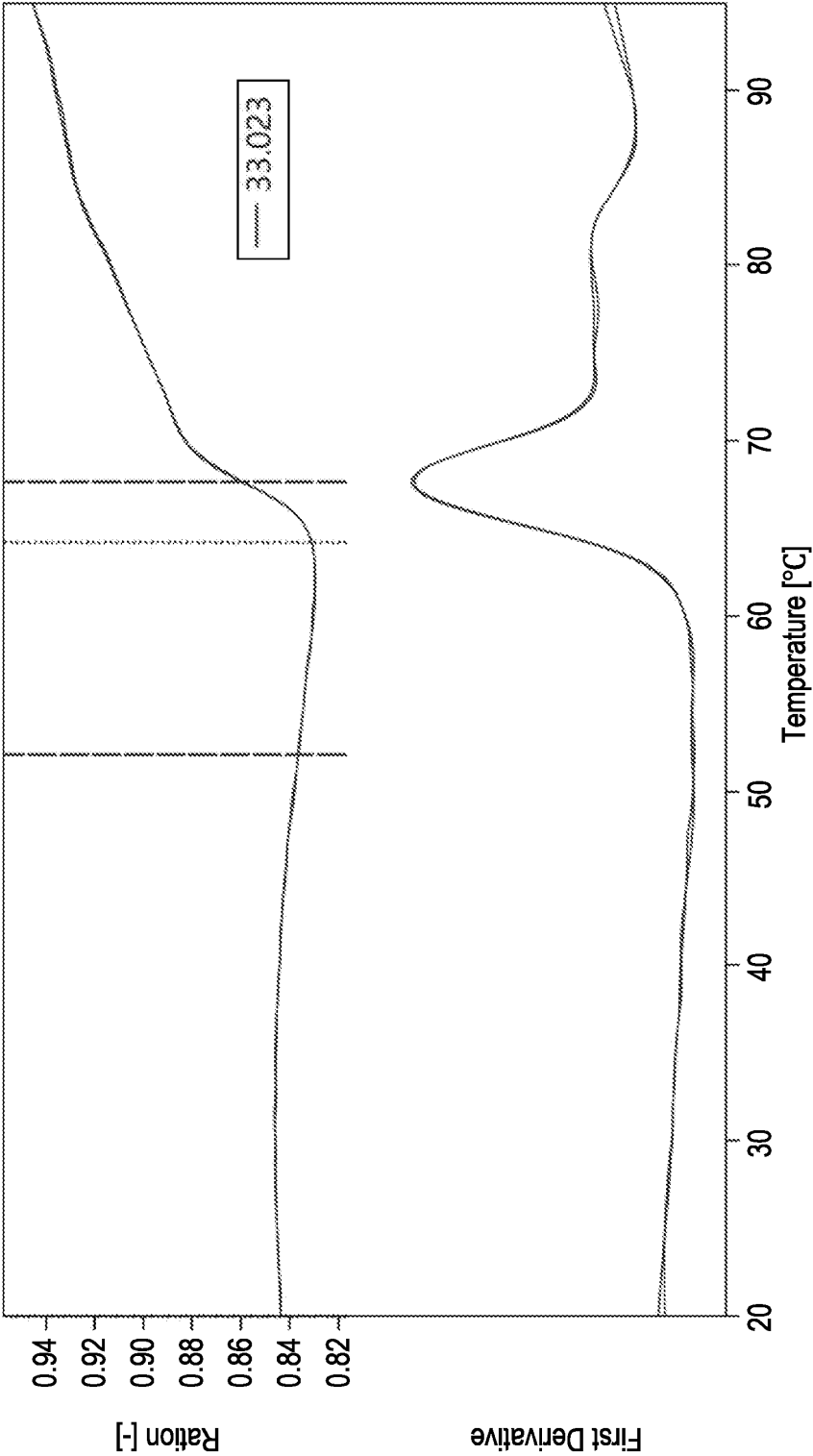


Figure 4A

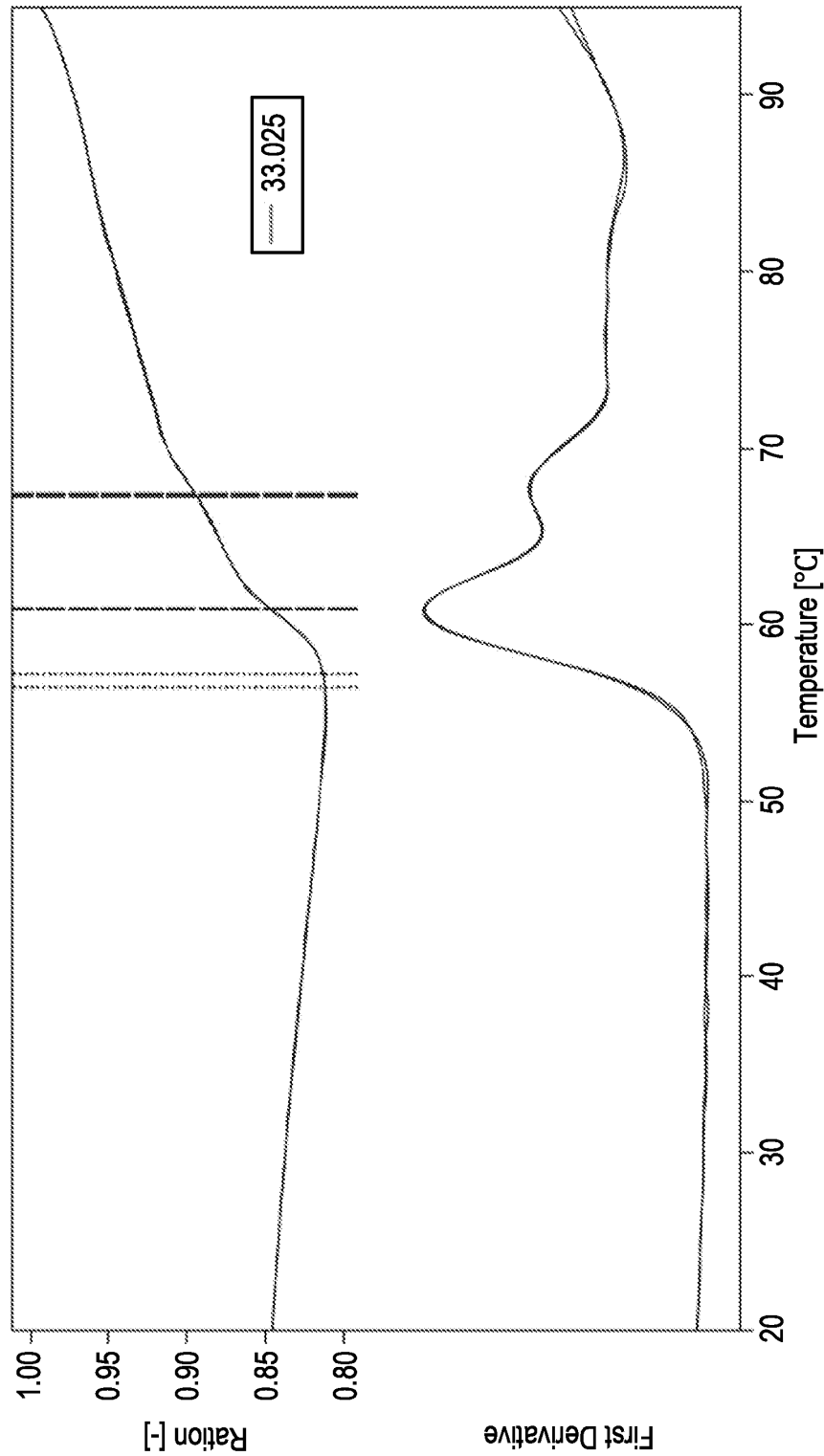


Figure 4B

C:\Users\User\Downloads\20201203 (3).prc 2021/11/08 14:49:07

BDG33.003-rh-IL-13

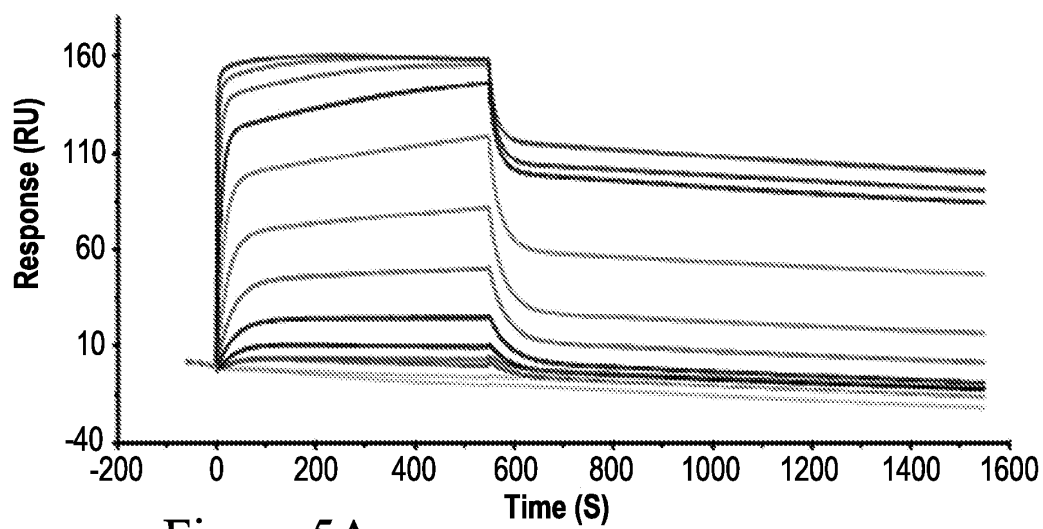


Figure 5A

BDG33.004-rh-IL-13

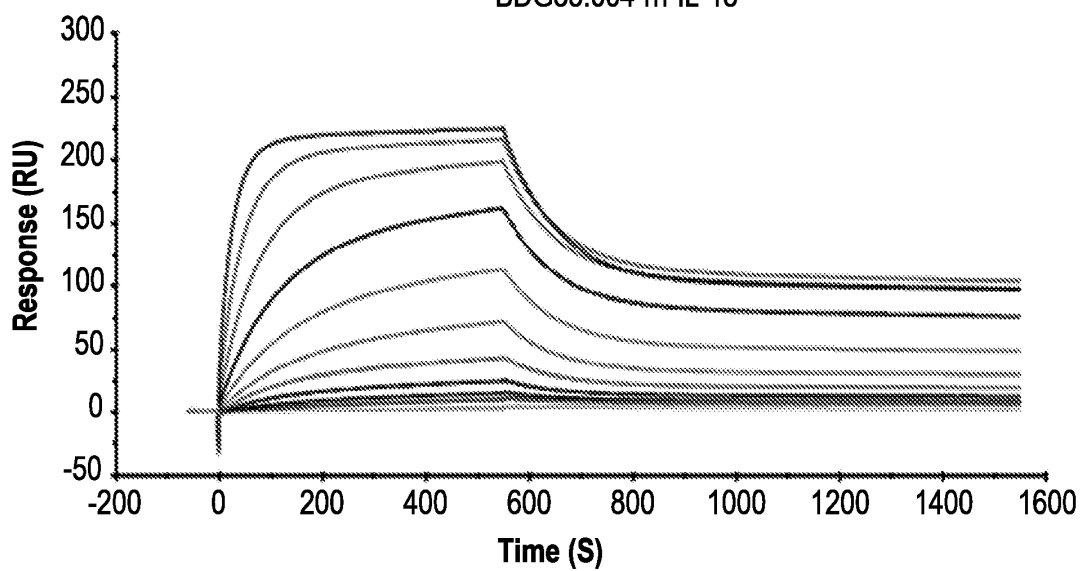


Figure 5B

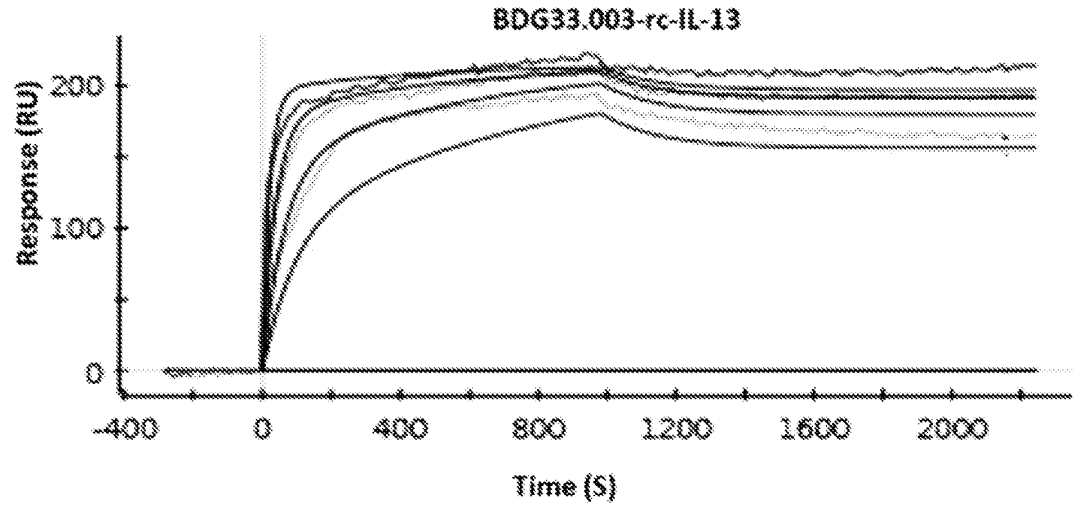


Figure 5C

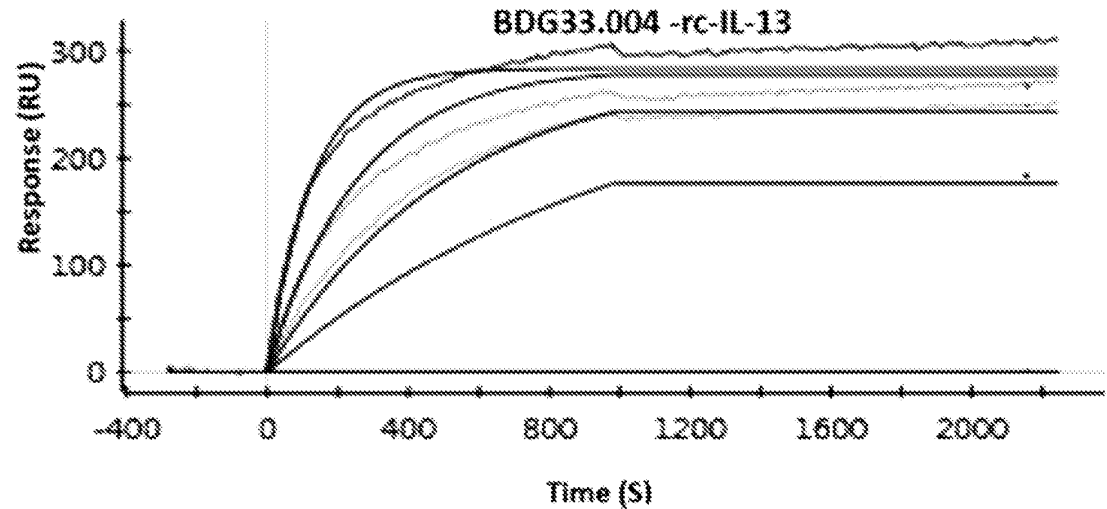


Figure 5D

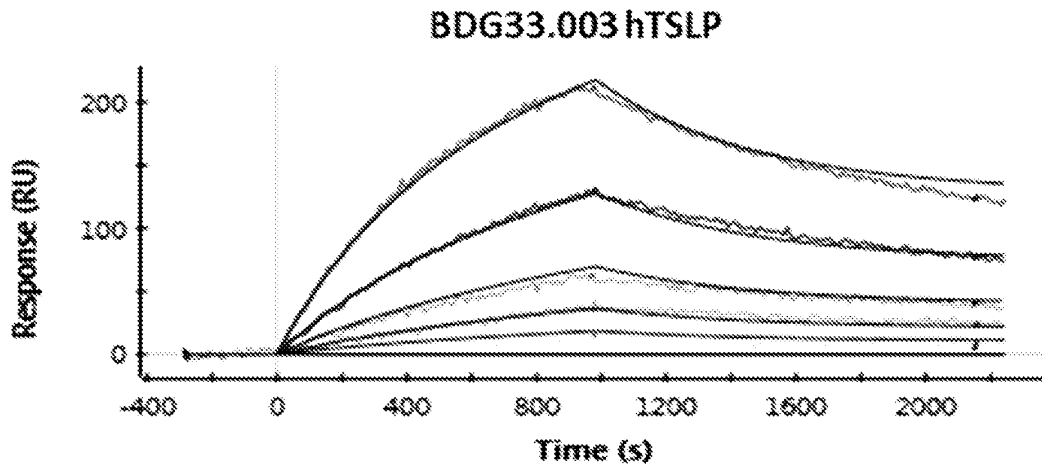


Figure 5E

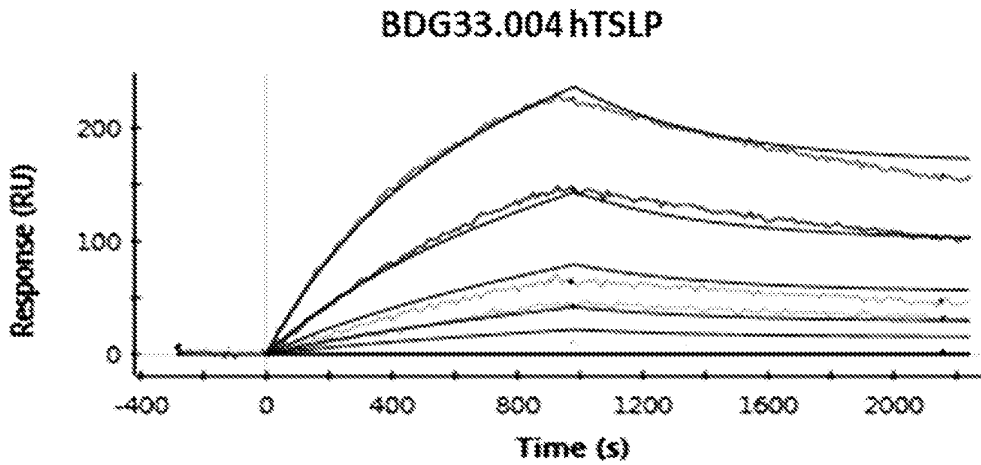


Figure 5F

Figure 5G

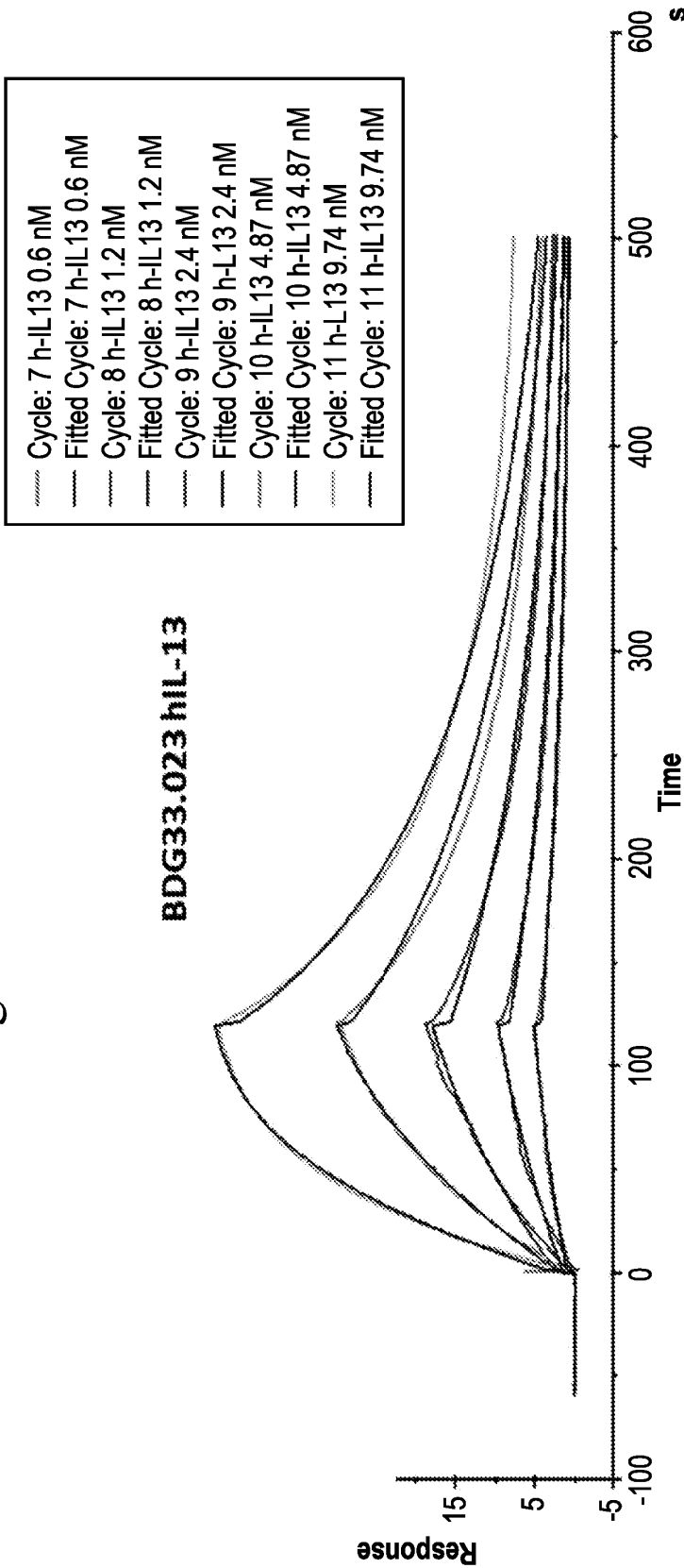
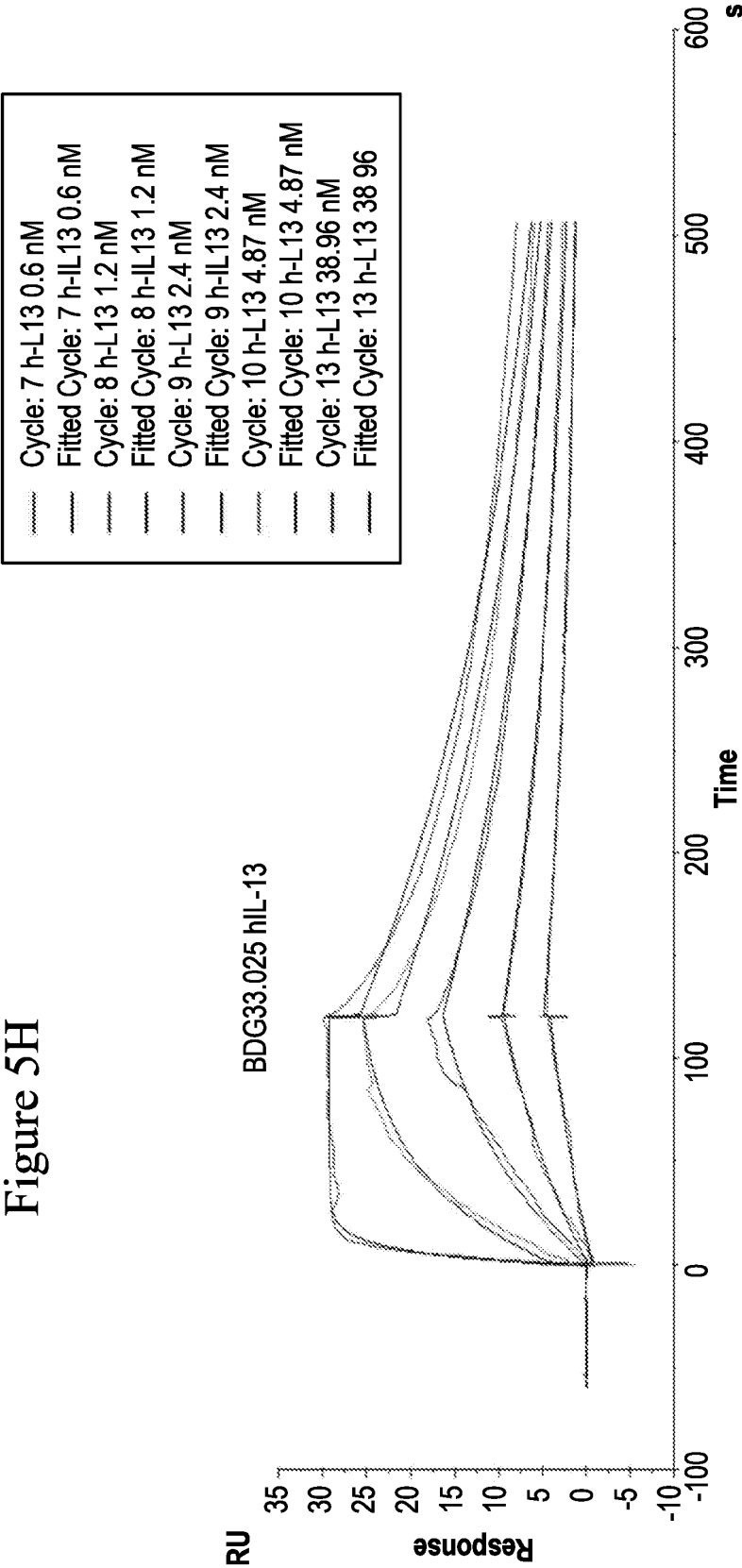


Figure 5H



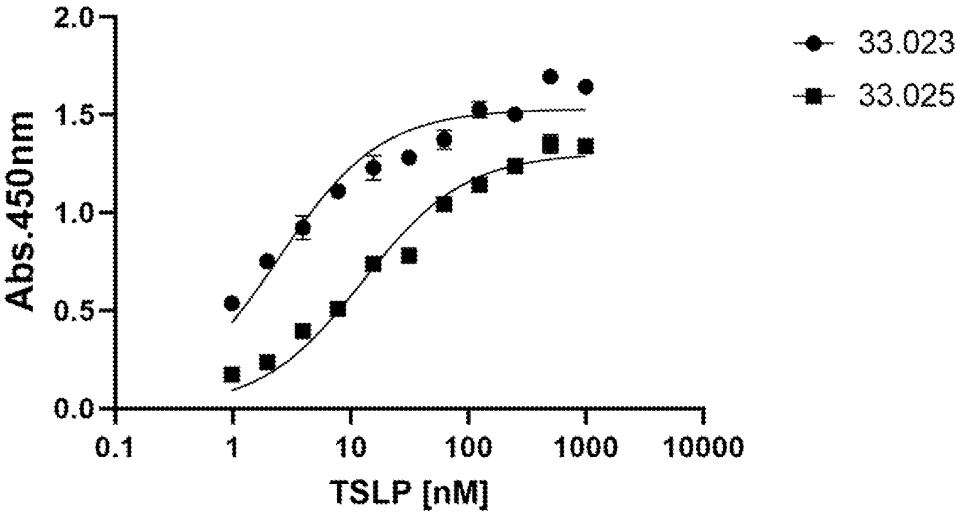


Figure 6A

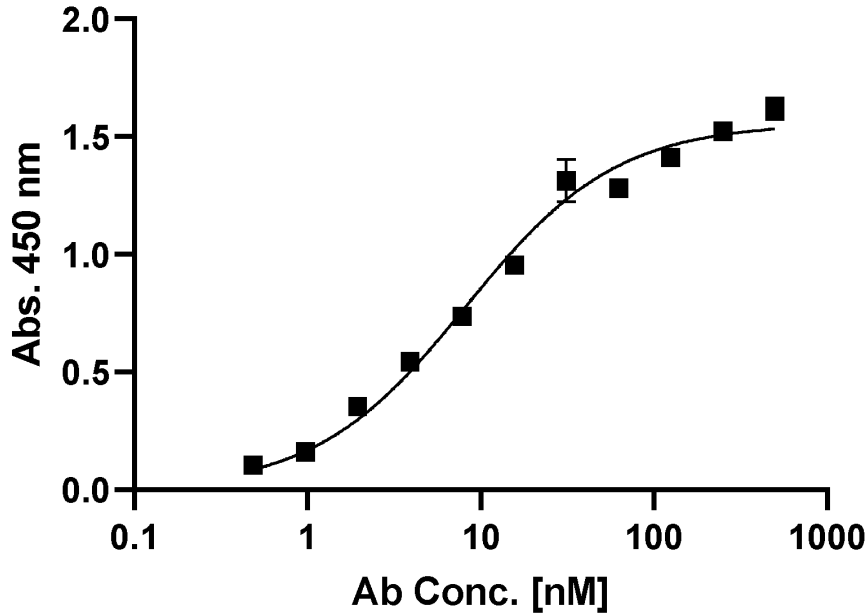


Figure 6B

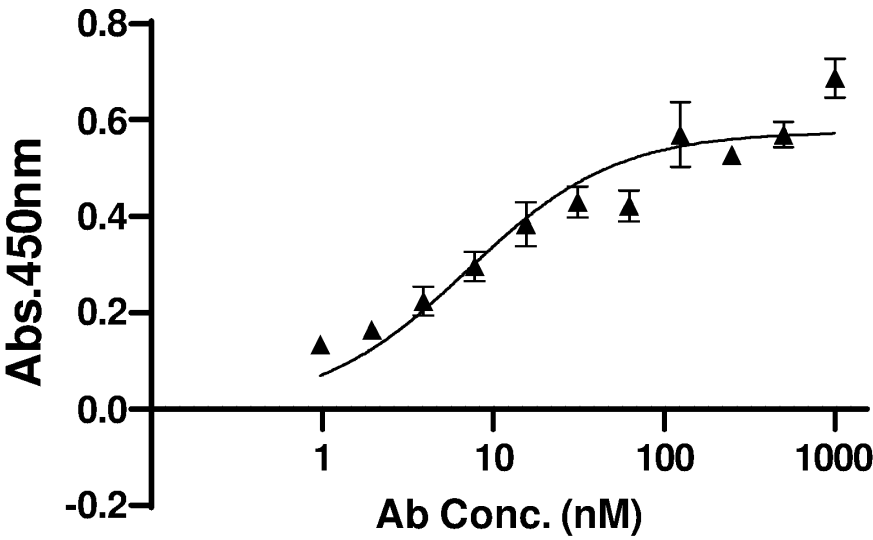


Figure 6C

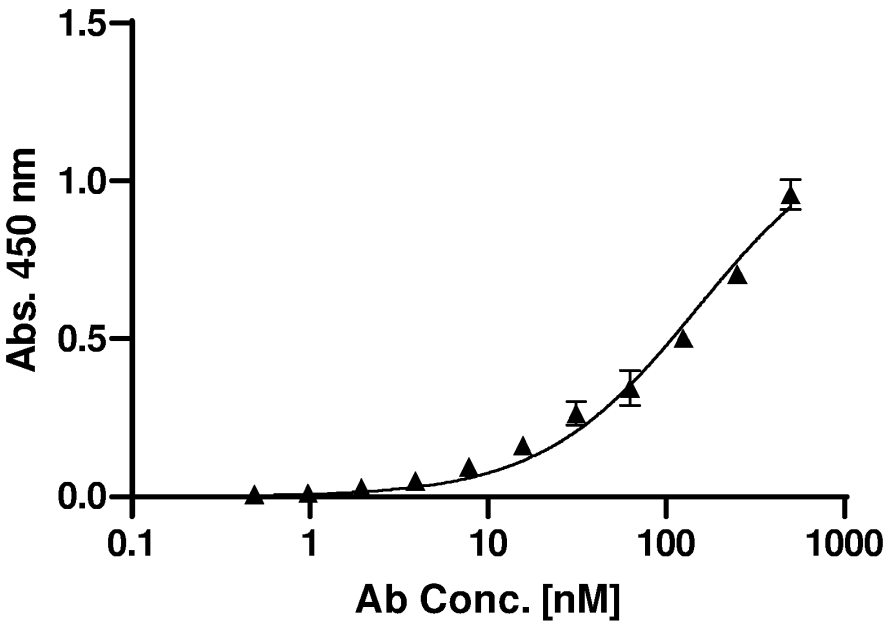


Figure 6D

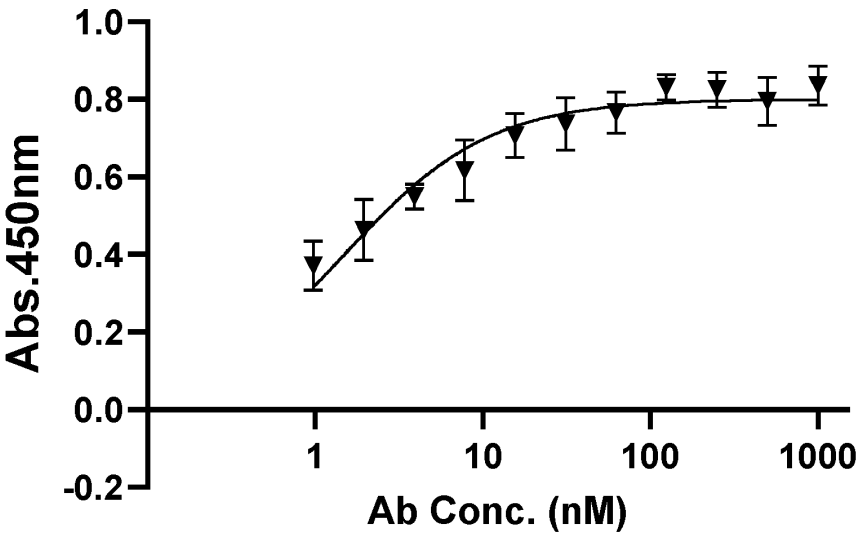


Figure 6E

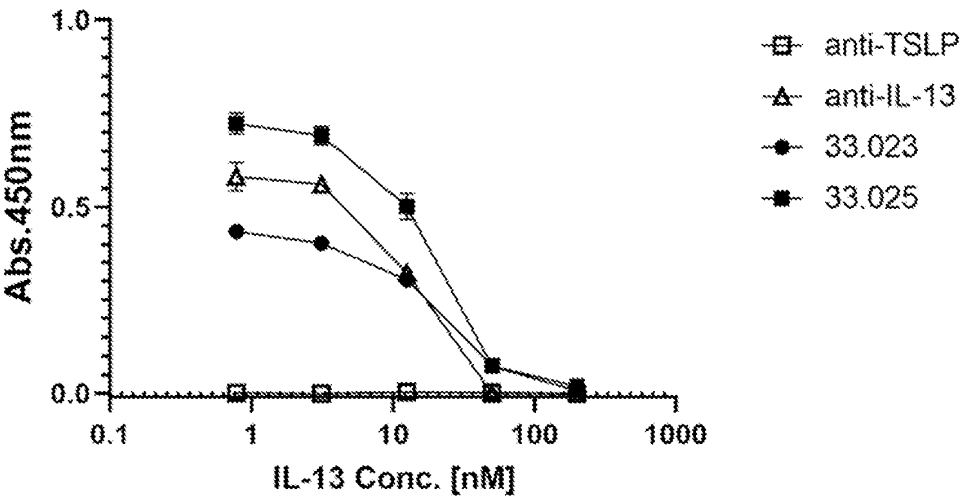


Figure 7A

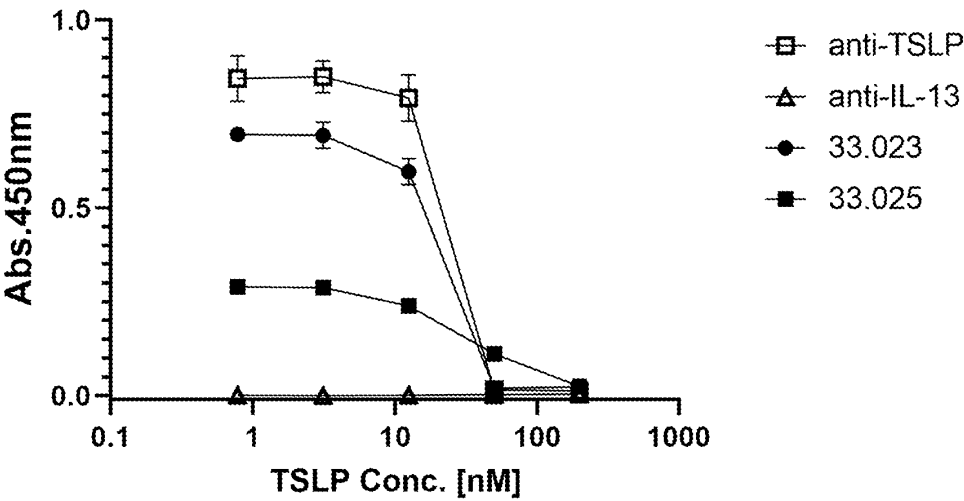


Figure 7B

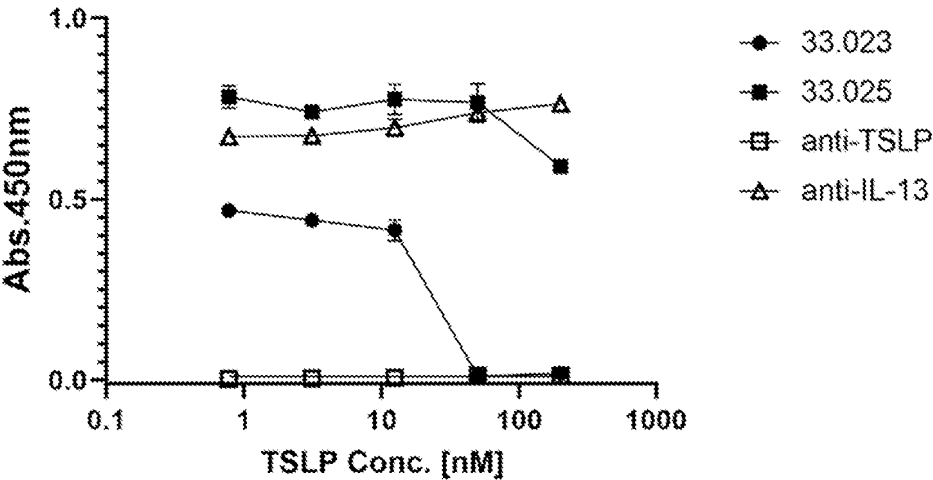


Figure 7C

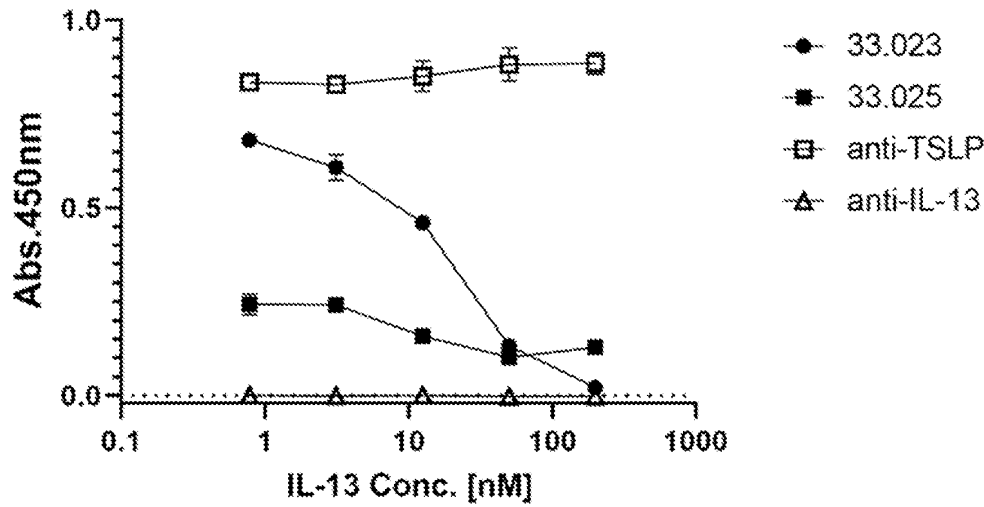


Figure 7D

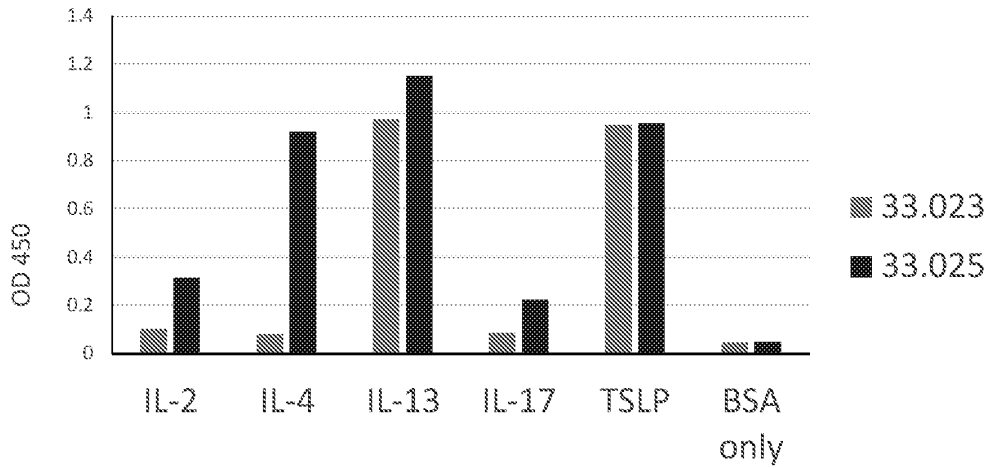


Figure 8

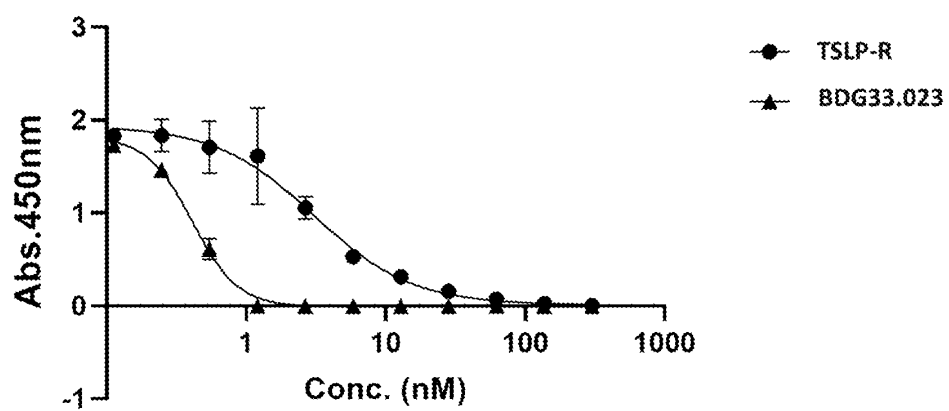


Figure 9

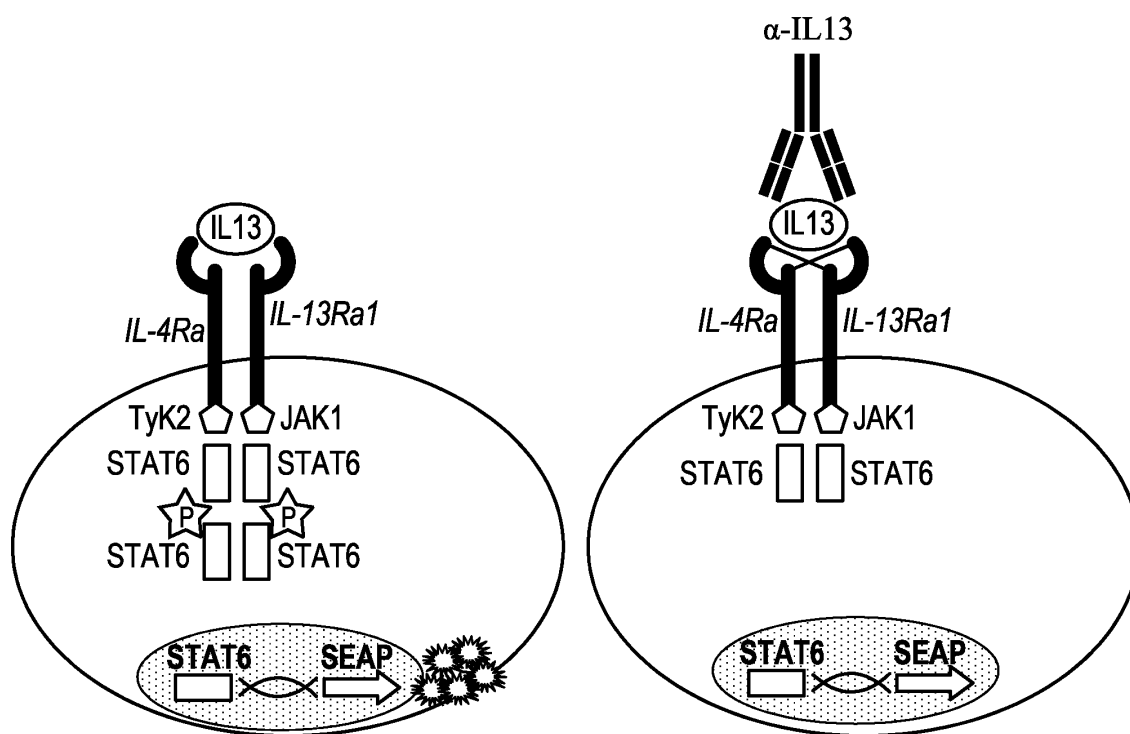


Figure 10

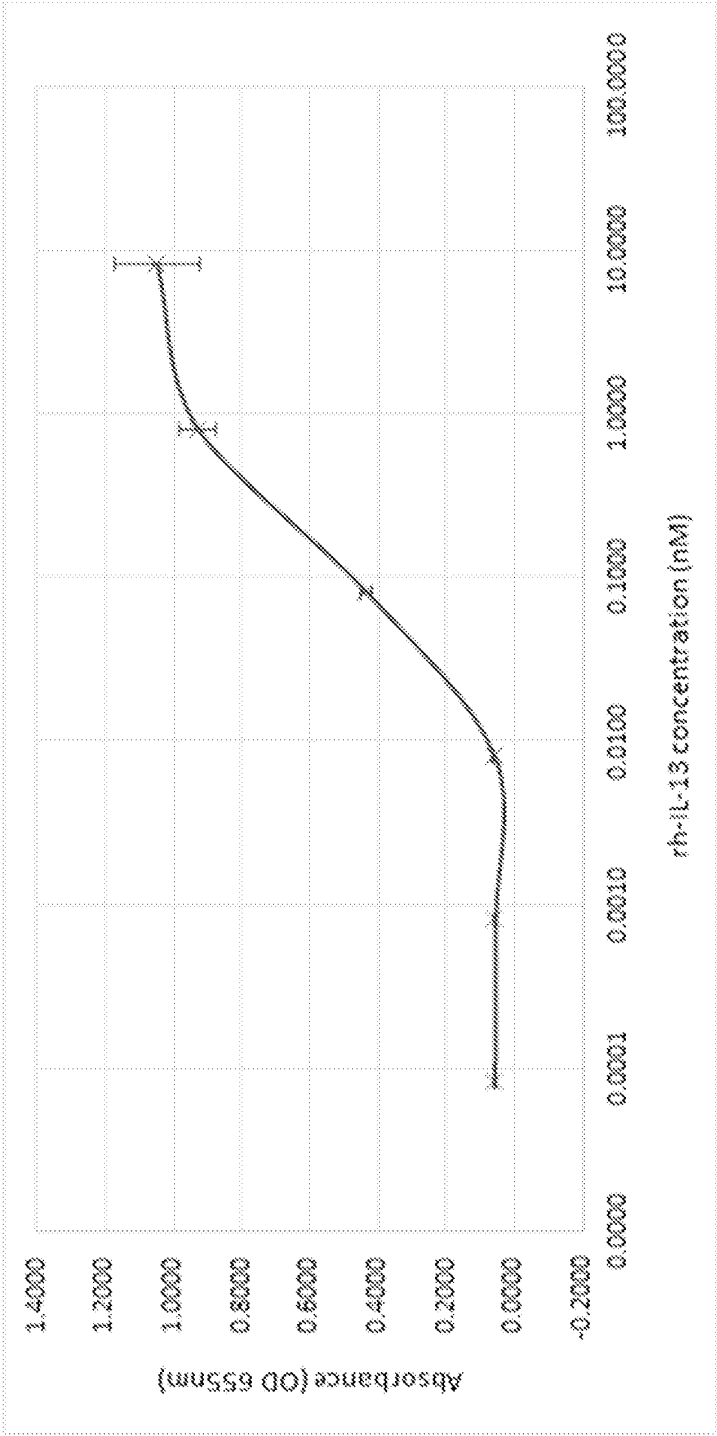


Figure 11A

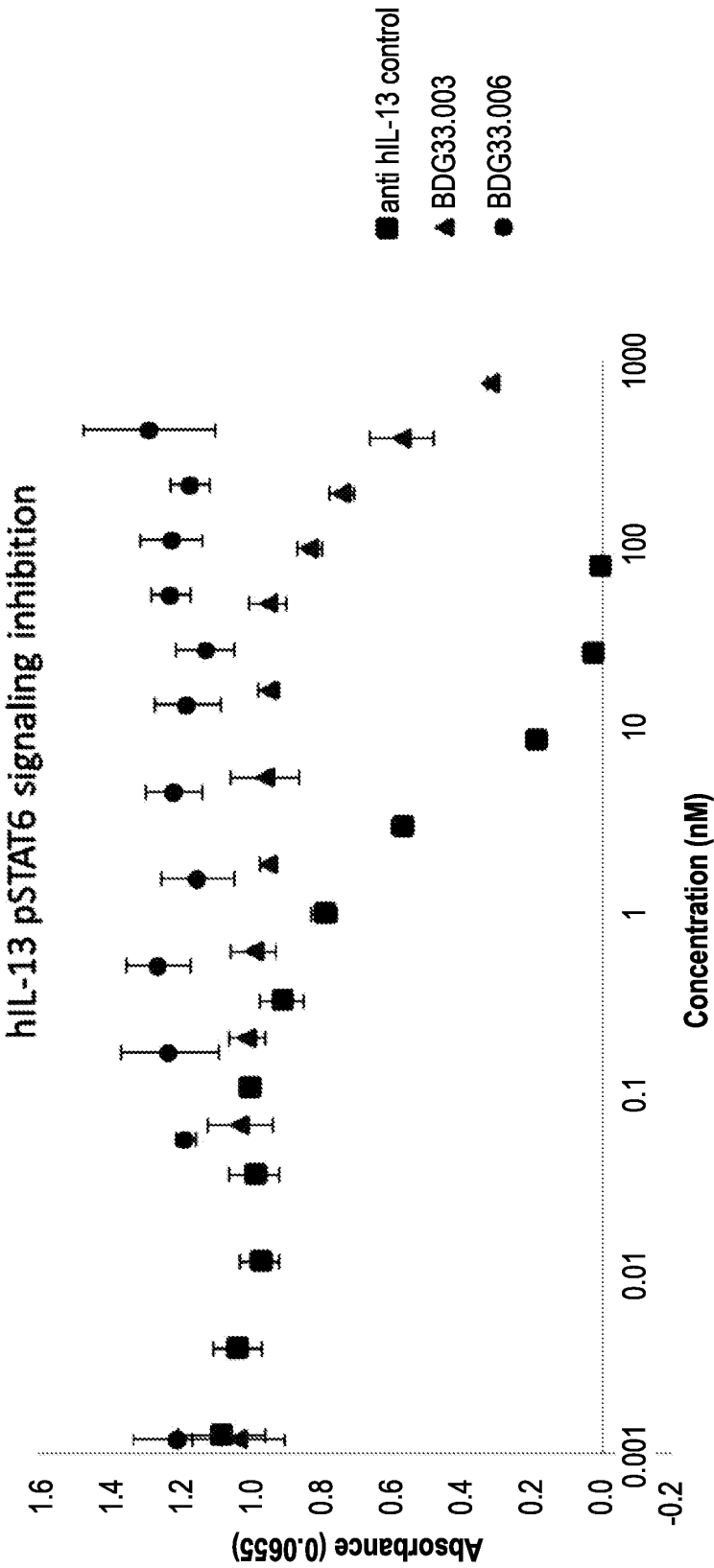


Figure 11B

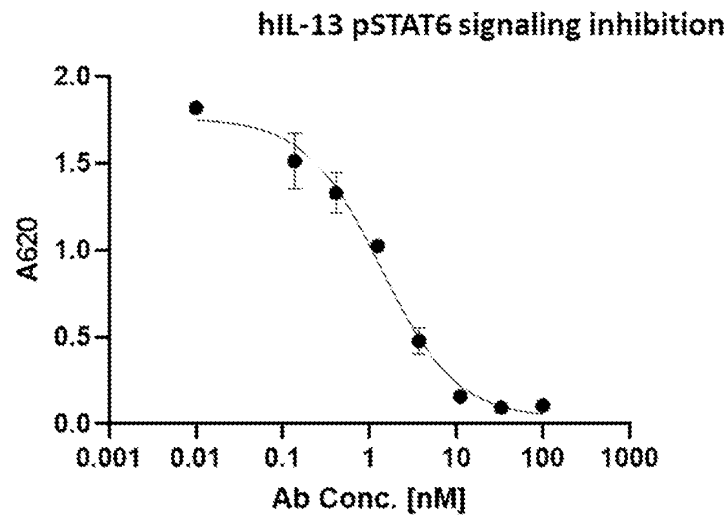


Figure 11C

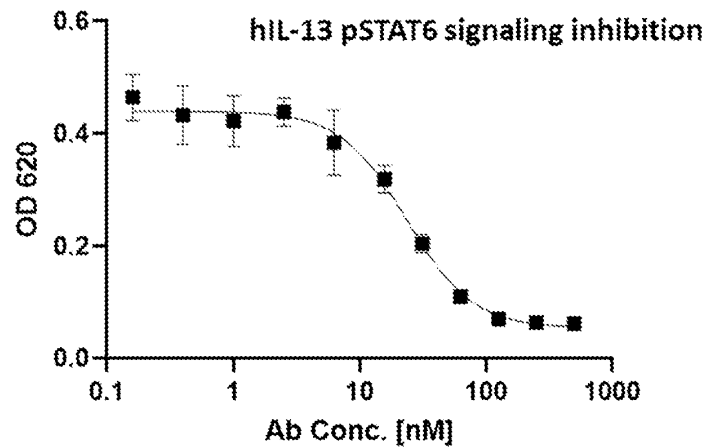


Figure 11D

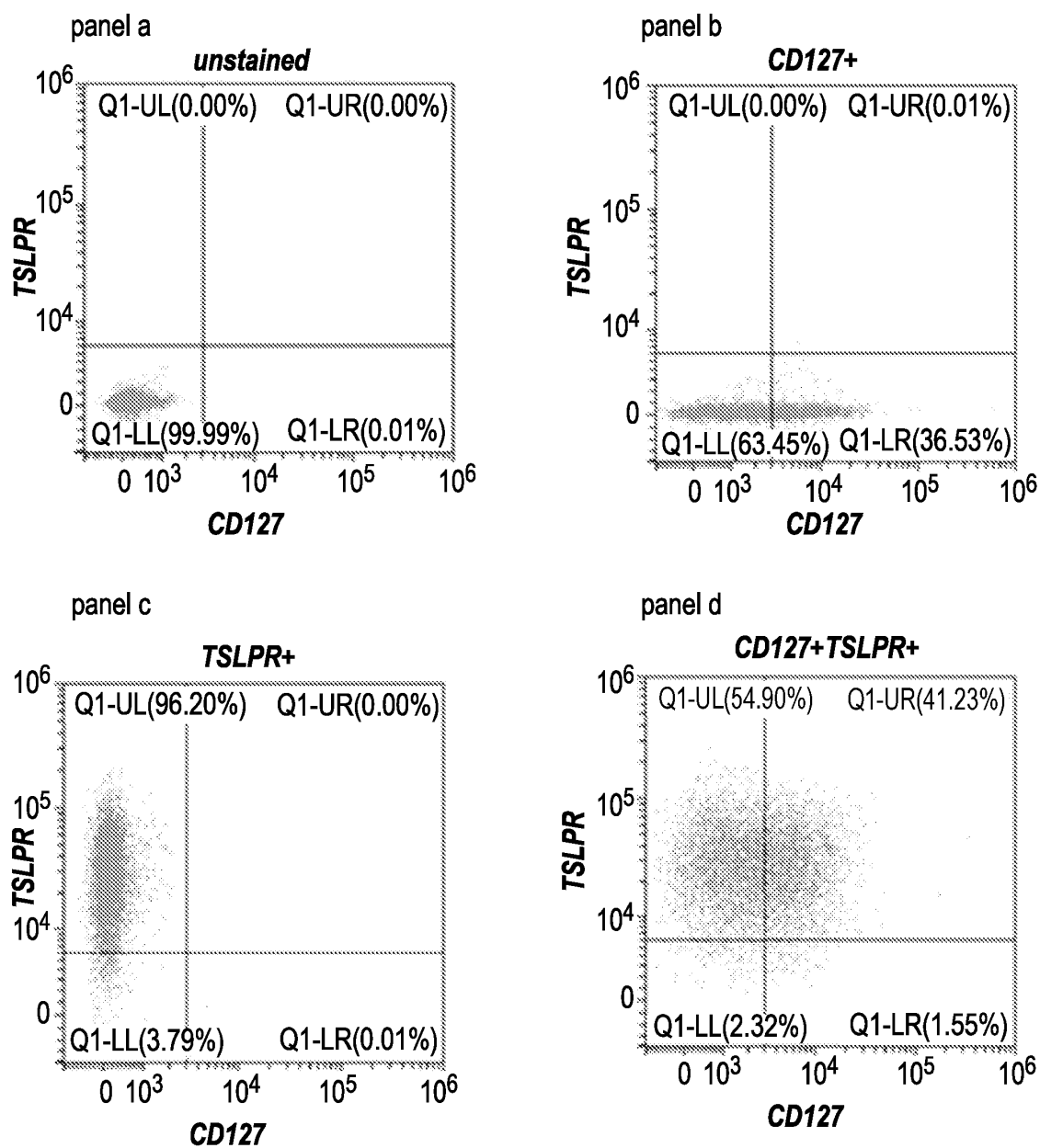


Figure 12A

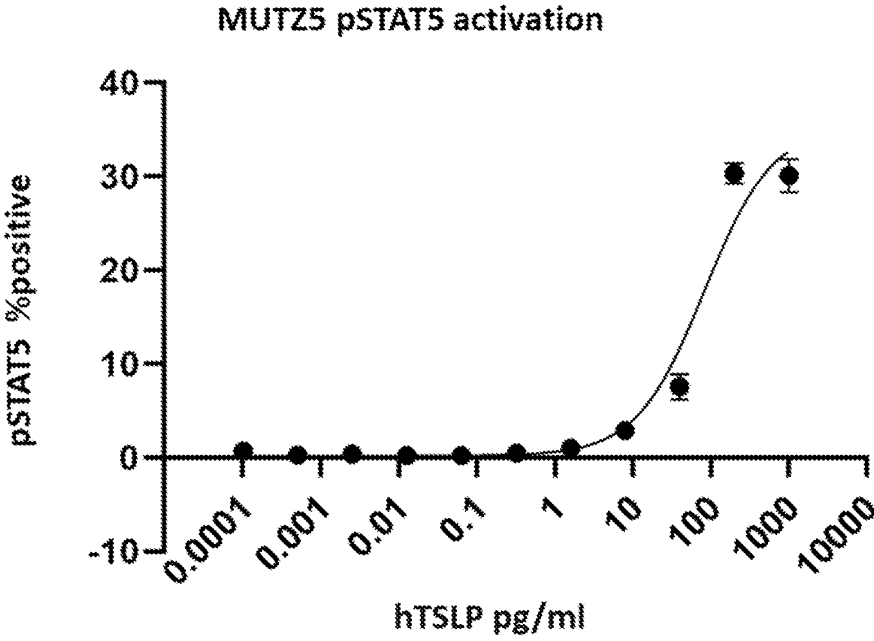


Figure 12B

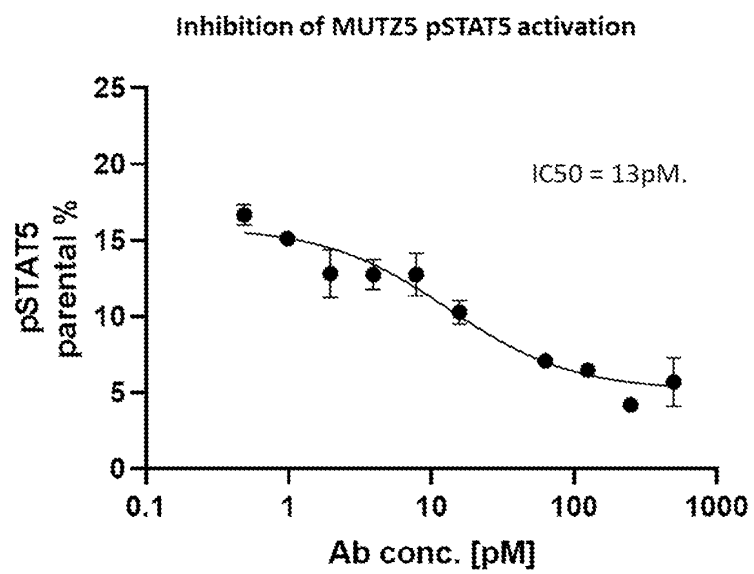


Figure 12C

Figure 13

Antibodies	HMW %	IgG %	Clone RT on SEC [min]	Calc. pI
38.074		100	5.03	7.9
38.075	11.36	88.65	5.1	7.5
38.077		97.43	5.29	7.2
38.078	6.37	89.12	5.57	7.2
38.079	1.34	96.28	5.04	7.2
38.080	0.67	97.4	5.16	7.5
38.081		97.54	5.149	7.9
38.082		99.35	4.906	6.9
38.083	0.39	92.88	4.985	6.6

- **HMW - High Molecular Weight**

Figure 14A

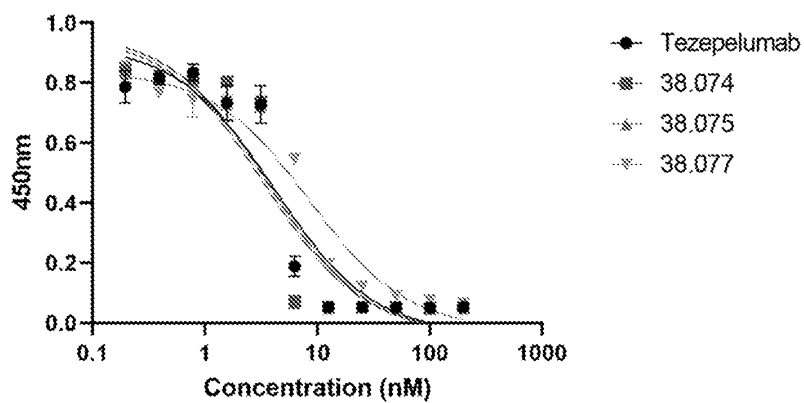


Figure 14B

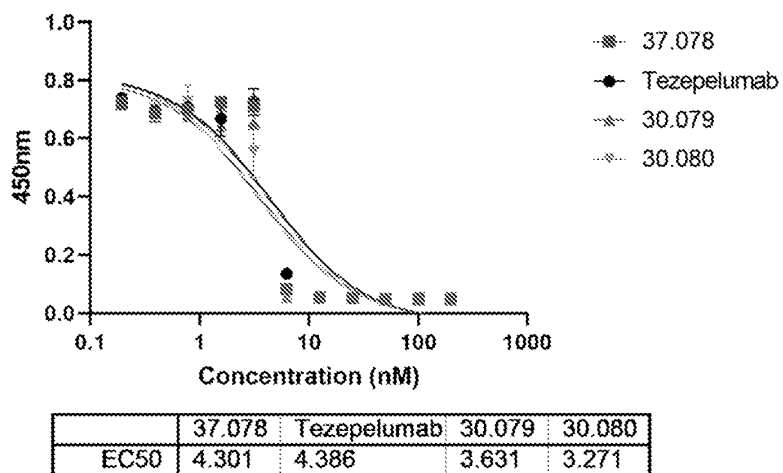
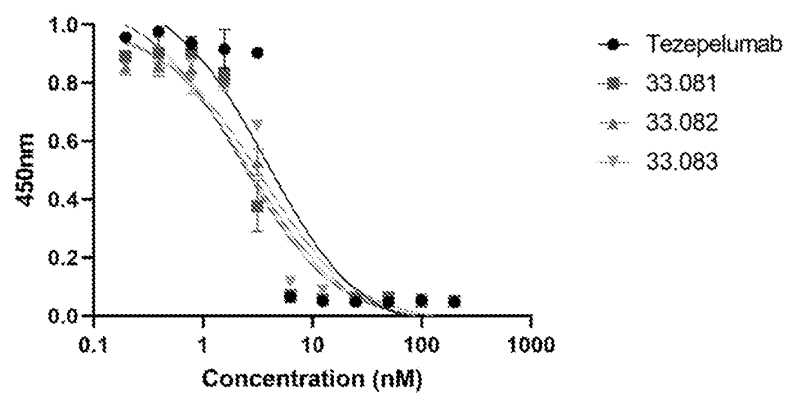


Figure 14C



	Tezepelumab	33.081	33.082	33.083
EC50	3.780	2.209	2.725	3.335

Figure 15

Antibodies	Onset #1 for Ratio	Inflection Point #1 for Ratio
38.074	60.3°C	62.2°C
38.075	61.0°C	65.5°C
38.075	60.7°C	65.4°C
38.077	66.4°C	70.4°C
38.077	66.0°C	70.3°C
38.078	64.4°C	67.4°C
38.078	64.3°C	67.4°C
38.079	61.4°C	64.2°C
38.079	61.7°C	64.3°C
38.080	63.8°C	66.8°C
38.080	63.7°C	66.8°C
38.081	63.4°C	65.9°C
38.081	63.3°C	65.9°C
38.082	65.6°C	69.3°C
38.082	65.4°C	69.3°C
38.083	66.6°C	70.1°C
38.083	66.8°C	70.2°C

Figure 16A

Antibodies	Human IL-13		
	ka (1/Ms)	kd (1/s)	KD (M)
33.023	1.52E+06	0.004574	3.01E-09
38.075	1.72E+07	5.47E-04	3.18E-11
38.077	1.66E+07	5.39E-04	3.25E-11
38.078	2.37E+06	2.03E-04	8.57E-11
38.080	1.59E+07	0.00114	7.16E-11
38.081	1.71E+07	8.72E-04	5.09E-11
38.082	8.41E+06	9.56E-04	1.14E-10
38.083	7.09E+06	4.01E-04	5.65E-11

Figure 16B

Antibodies	Human TSLP		
	ka (1/Ms)	kd (1/s)	KD (M)
33.023	1.09E+06	6.84E-05	6.25E-11
38.075	1.98E+06	2.38E-05	1.20E-11
38.077	8.69E+05	1.44E-04	1.66E-10
38.078	1.28E+06	2.95E-07	2.31E-13
38.080	2.50E+06	1.81E-05	7.22E-12
38.081	1.81E+06	1.25E-04	6.92E-11
38.082	2.56E+06	1.58E-04	6.16E-11
38.083	2.45E+06	2.41E-04	9.83E-11

Figure 16C

	SPR hIL-13			SPR hTSLP		
	Ka	Kd	KD	Ka	Kd	KD
BDG38.076	6.53E+06	2.31E-04	3.54E-11	2.00E+07	3.22E-05	1.61E-12
BDG38.090	6.57E+06	1.30E-04	1.98E-11	9.57E+06	1.13E-04	1.18E-11
BDG38.091	3.57E+06	2.16E-04	6.04E-11	1.40E+06	8.67E-05	6.21E-11
BDG38.092	5.65E+06	5.37E-05	9.50E-12	6.28E+06	2.46E-05	3.92E-12
BDG38.094	6.77E+06	9.36E-05	1.38E-11	1.44E+07	1.82E-07	1.27E-14
BDG38.096	6.19E+06	1.55E-04	2.51E-11	6.33E+06	1.33E-04	2.10E-11
BDG38.098	5.80E+06	1.38E-04	2.39E-11	8.60E+06	2.37E-04	2.75E-11
BDG38.106	5.93E+06	2.05E-04	3.46E-11	4.90E+06	2.57E-04	5.25E-11
BDG38.107	7.36E+06	2.02E-05	2.74E-12	5.41E+05	8.16E-05	1.51E-10
BDG38.110	5.75E+06	4.27E-04	7.42E-11	2.31E+06	2.98E-04	1.29E-10
BDG38.112	2.32E+06	4.02E-05	1.73E-11	1.06E+06	2.74E-04	2.58E-10
BDG38.115	3.63E+06	4.55E-04	1.25E-10	6.34E+05	5.32E-04	8.40E-10
BDG38.116	5.51E+06	1.16E-04	2.10E-11	5.44E+06	3.95E-05	7.27E-12
BDG38.117	6.94E+06	1.03E-04	1.49E-11	7.07E+06	2.70E-05	3.82E-12

Figure 16D

	SPR hIL-13			SPR hTSLP		
	Ka	Kd	KD	Ka	Kd	KD
BDG38.118	4.27E+06	6.70E-05	1.57E-11	4.46E+05	4.30E-04	9.64E-10
BDG38.125	6.12E+06	4.76E-05	7.78E-12	4.76E+06	1.21E-04	2.55E-11
BDG38.126	4.92E+06	1.43E-04	2.91E-11	3.87E+06	6.72E-05	1.74E-11
BDG38.127	5.91E+06	5.01E-05	8.47E-12	4.31E+05	4.27E-04	9.91E-10
BDG38.128	5.49E+06	1.76E-04	3.21E-11	4.25E+06	3.86E-05	9.07E-12
BDG38.129	6.96E+06	1.16E-04	1.67E-11	4.03E+06	9.12E-05	2.26E-11
BDG38.131	2.00E+06	3.56E-04	1.79E-10	3.82E+06	2.85E-07	7.46E-14
BDG38.132	1.03E+07	1.84E-04	1.78E-11	1.04E+07	3.55E-05	3.41E-12
BDG38.134	3.07E+06	0.001557	5.07E-10	4.86E+06	4.17E-05	8.58E-12
BDG38.137	4.34E+06	2.52E-04	5.80E-11	4.36E+06	7.01E-05	1.61E-11
BDG38.138	1.19E+07	1.60E-04	1.34E-11	1.50E+07	4.28E-05	2.85E-12
BDG38.139	7.71E+06	2.12E-04	2.75E-11	7.78E+06	2.54E-05	3.27E-12
BDG38.140	4.88E+06	1.68E-04	3.44E-11	3.38E+06	2.79E-05	8.27E-12

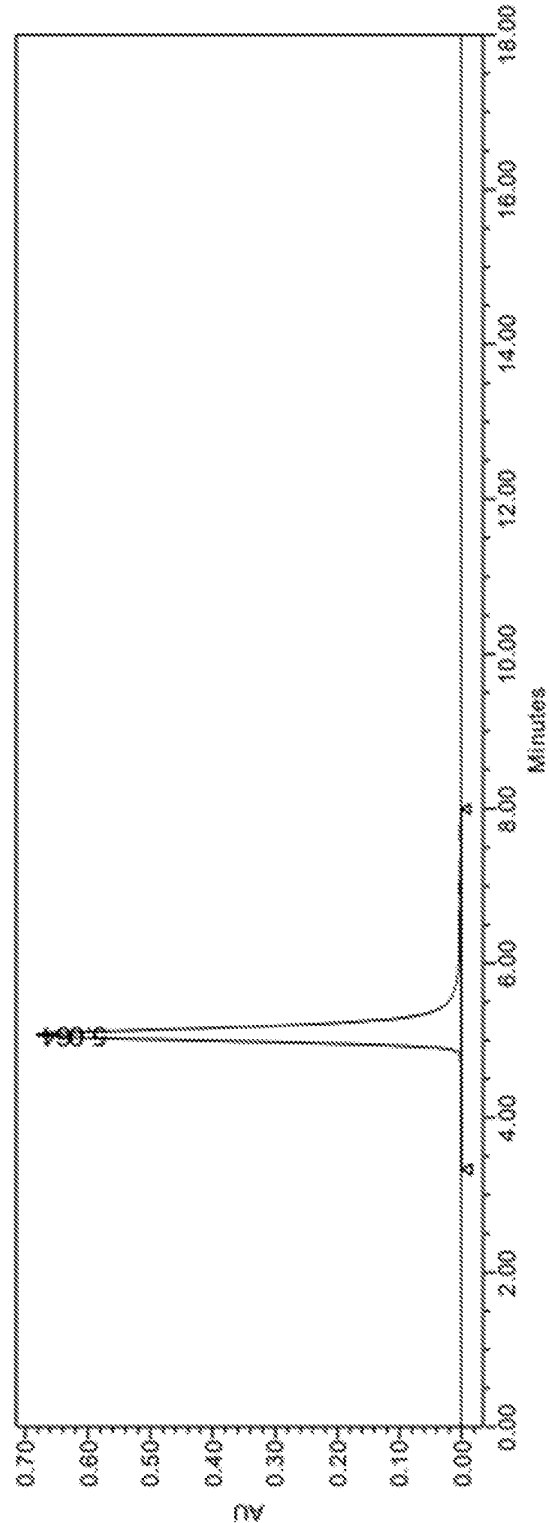
Figure 16E

Antibodies	CynoIL-13		
	ka (1/Ms)	kd (1/s)	KD (M)
38.075	3.45E+07	0.01564	4.54E-10
38.076	8.16E+06	0.006706	8.22E-10
38.081	8.00E+06	0.006749	8.44E-10
38.090	2.49E+07	0.001872	7.52E-11
38.092	3.01E+07	0.001288	4.28E-11
38.094	2.22E+07	0.005999	2.70E-10
38.096	5.47E+07	0.002419	4.42E-11
38.116	3.14E+07	8.47E-04	2.70E-11
38.117	3.94E+07	0.001443	3.67E-11
38.125	3.46E+07	0.001345	3.89E-11
38.128	3.02E+07	0.003086	1.02E-10
38.129	6.05E+07	0.001397	2.31E-11
38.132	3.58E+07	0.002014	5.63E-11
38.138	7.70E+06	0.006533	8.49E-10
38.139	2.27E+07	0.0077	3.39E-10
38.140	5.54E+07	0.001315	2.38E-11

Figure 16F

Antibodies	CynoTSLP		
	ka (1/Ms)	kd (1/s)	KD (M)
38.075	2.72E+06	7.59E-06	2.79E-12
38.076	7.80E+06	3.99E-08	5.12E-15
38.081	8.96E+06	4.36E-05	4.87E-12
38.090	6.14E+06	5.53E-05	9.01E-12
38.092	3.84E+06	1.72E-05	4.48E-12
38.094	1.16E+07	3.18E-05	2.75E-12
38.096	3.39E+06	6.14E-05	1.81E-11
38.116	1.43E+07	3.86E-04	2.71E-11
38.117	5.08E+07	4.52E-04	8.90E-12
38.125	2.64E+06	1.19E-04	4.52E-11
38.128	1.55E+06	7.62E-08	4.92E-14
38.129	3.75E+06	5.27E-05	1.41E-11
38.132	6.83E+06	2.19E-06	3.21E-13
38.138	1.37E+07	1.85E-05	1.35E-12
38.139	6.50E+06	1.55E-05	2.39E-12
38.140	4.53E+06	2.78E-06	6.14E-13

Figure 17A



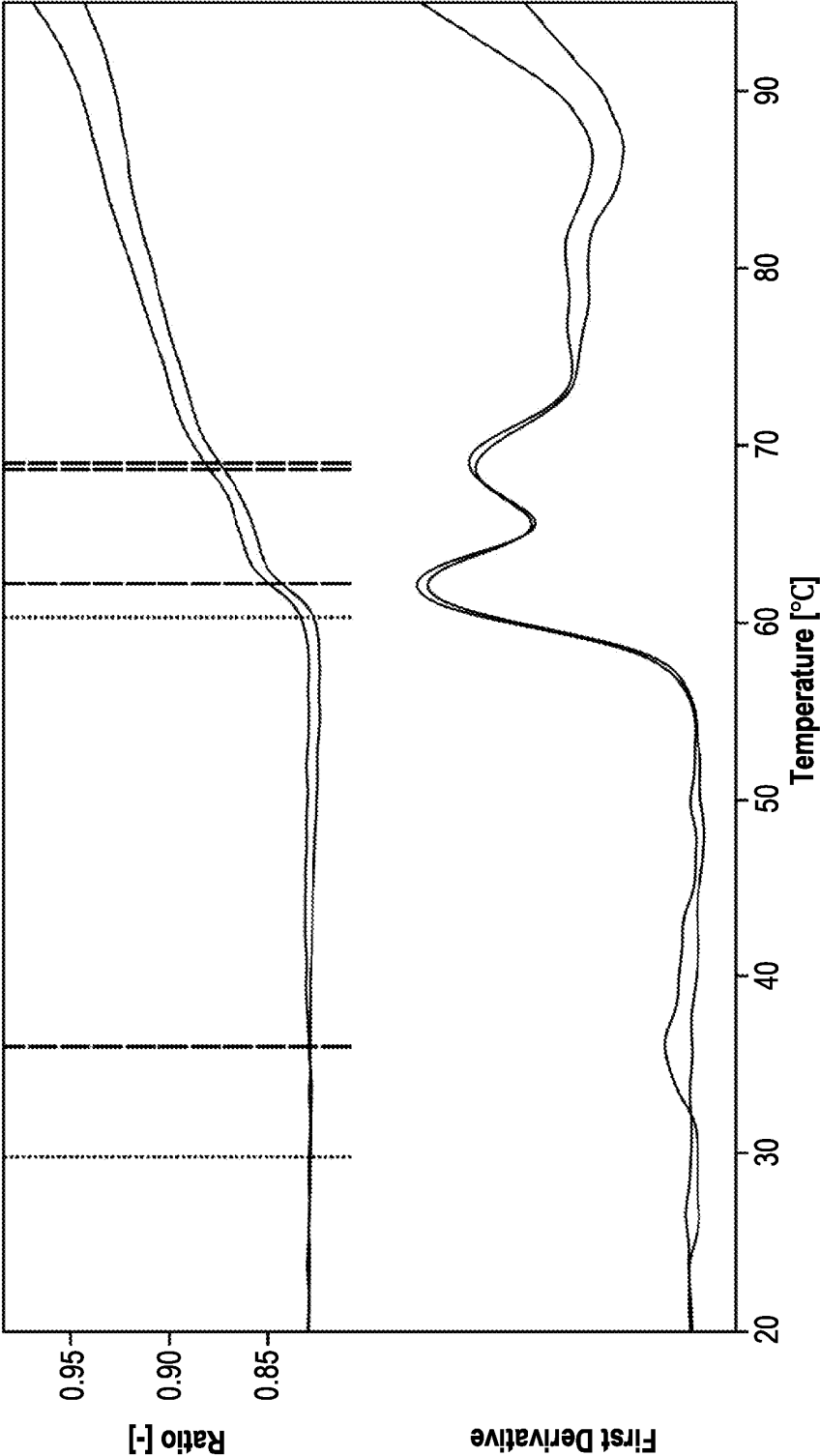


Figure 17B

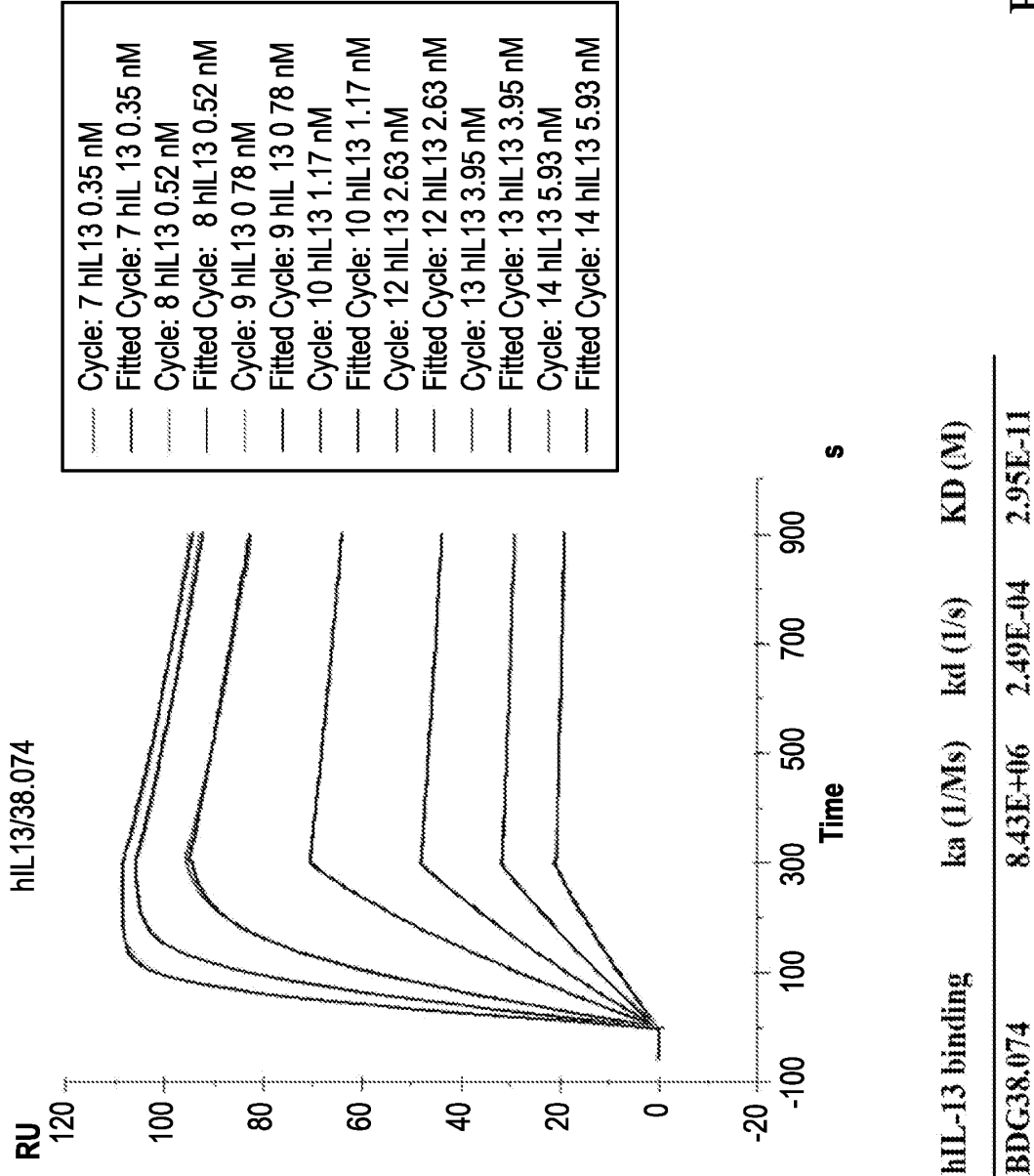


Figure 18A

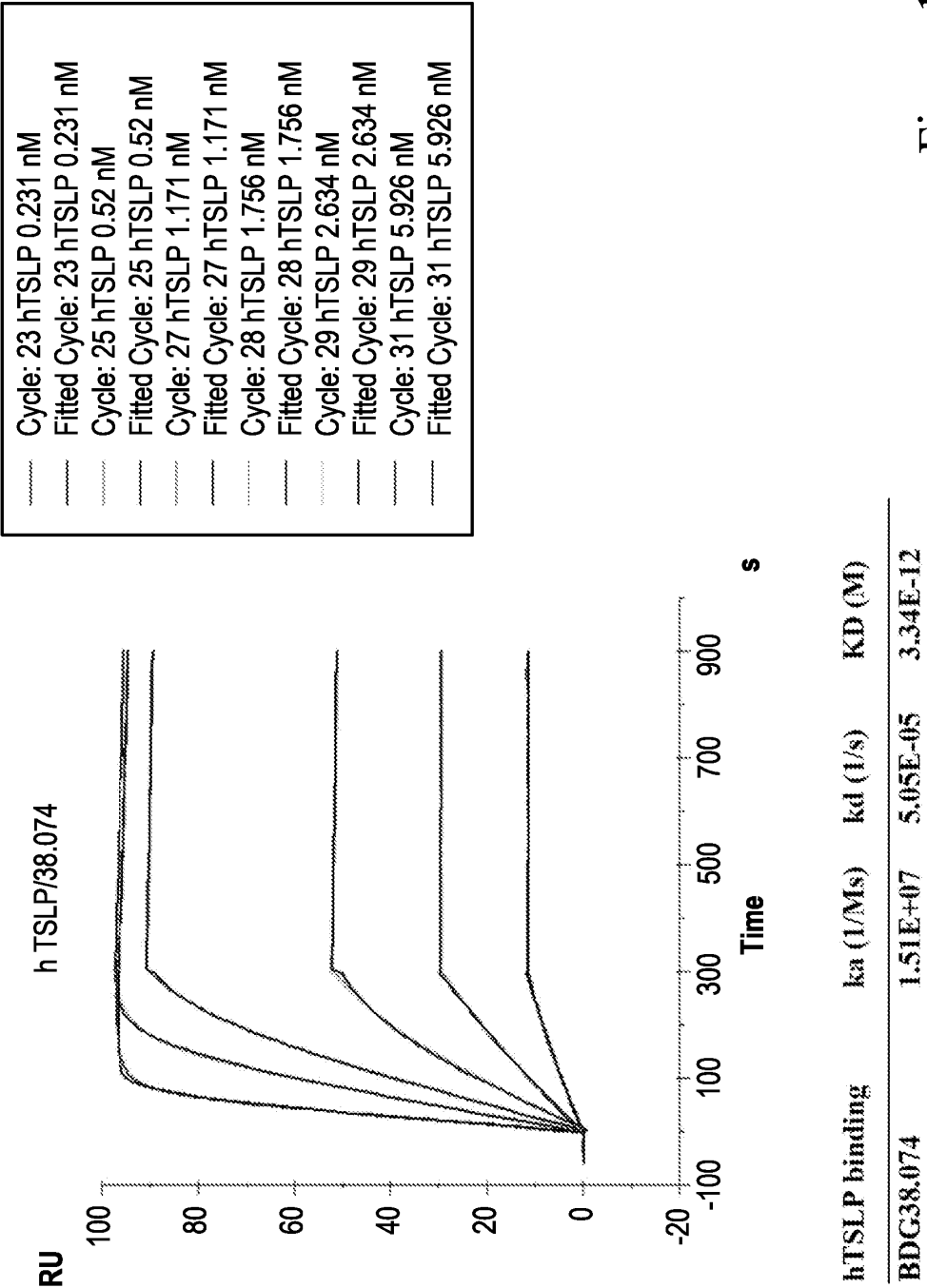


Figure 18B

Figure 18C

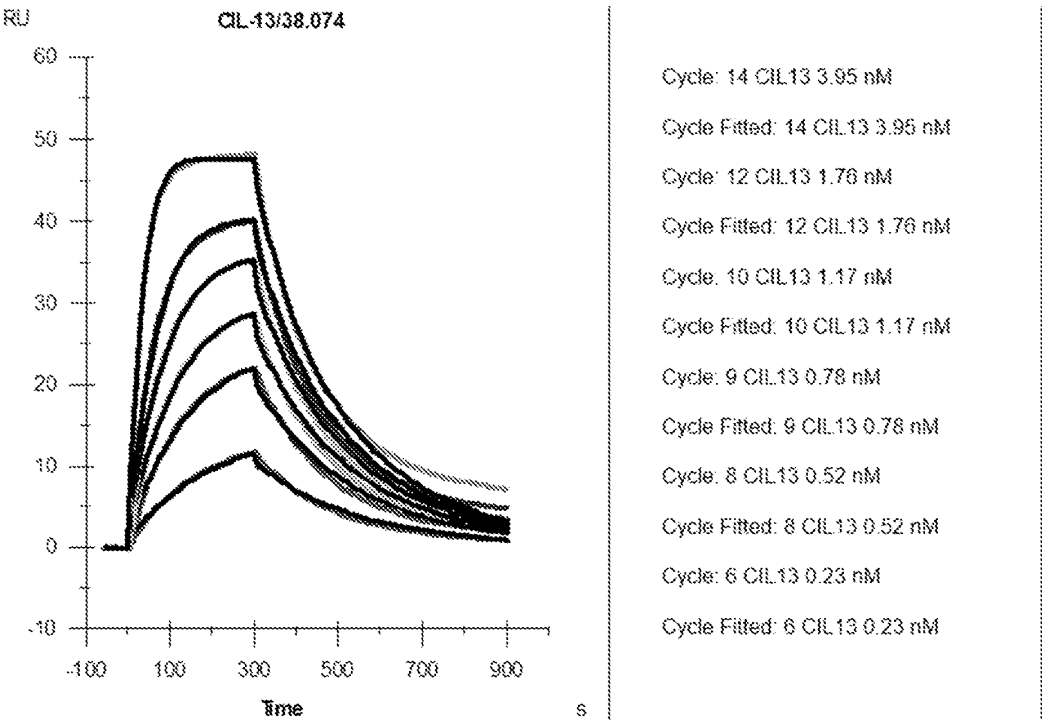
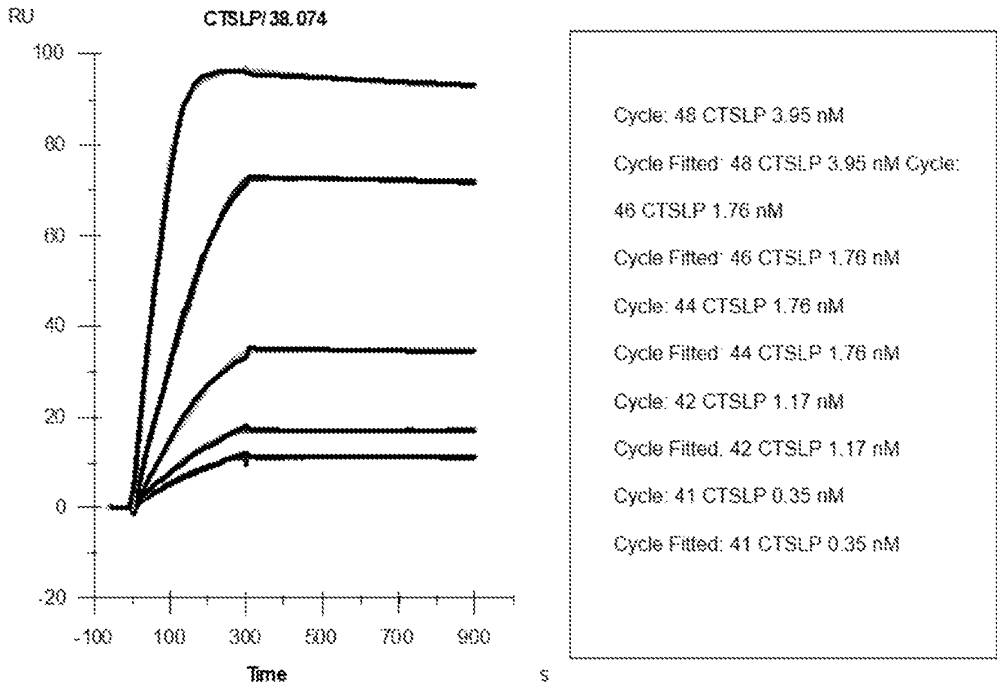


Figure 18D



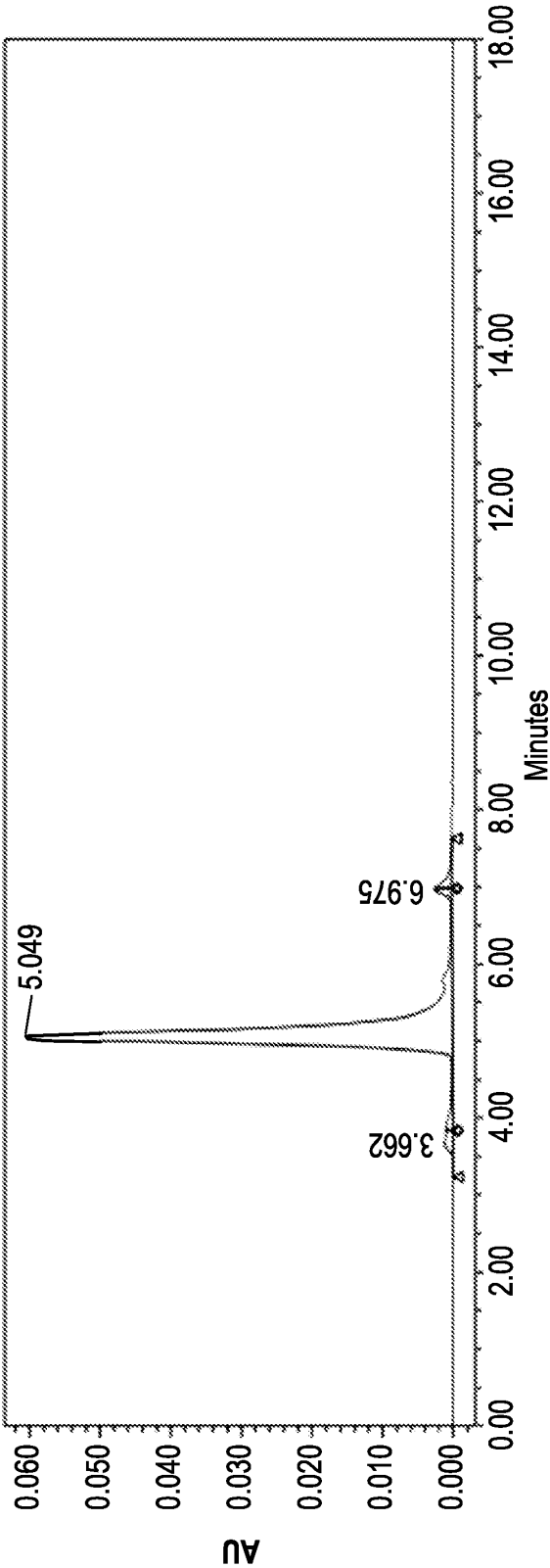


Figure 19A

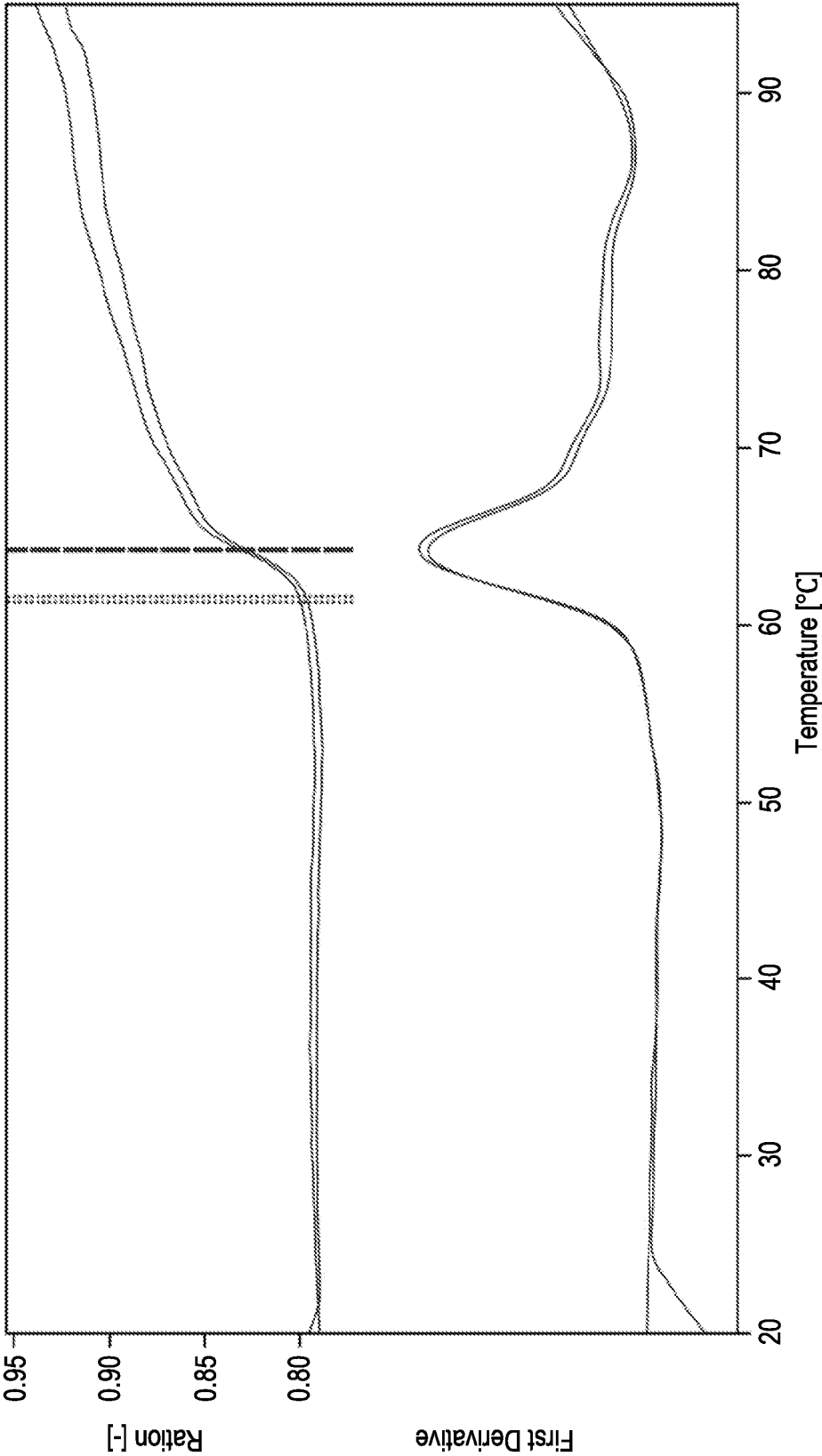


Figure 19B

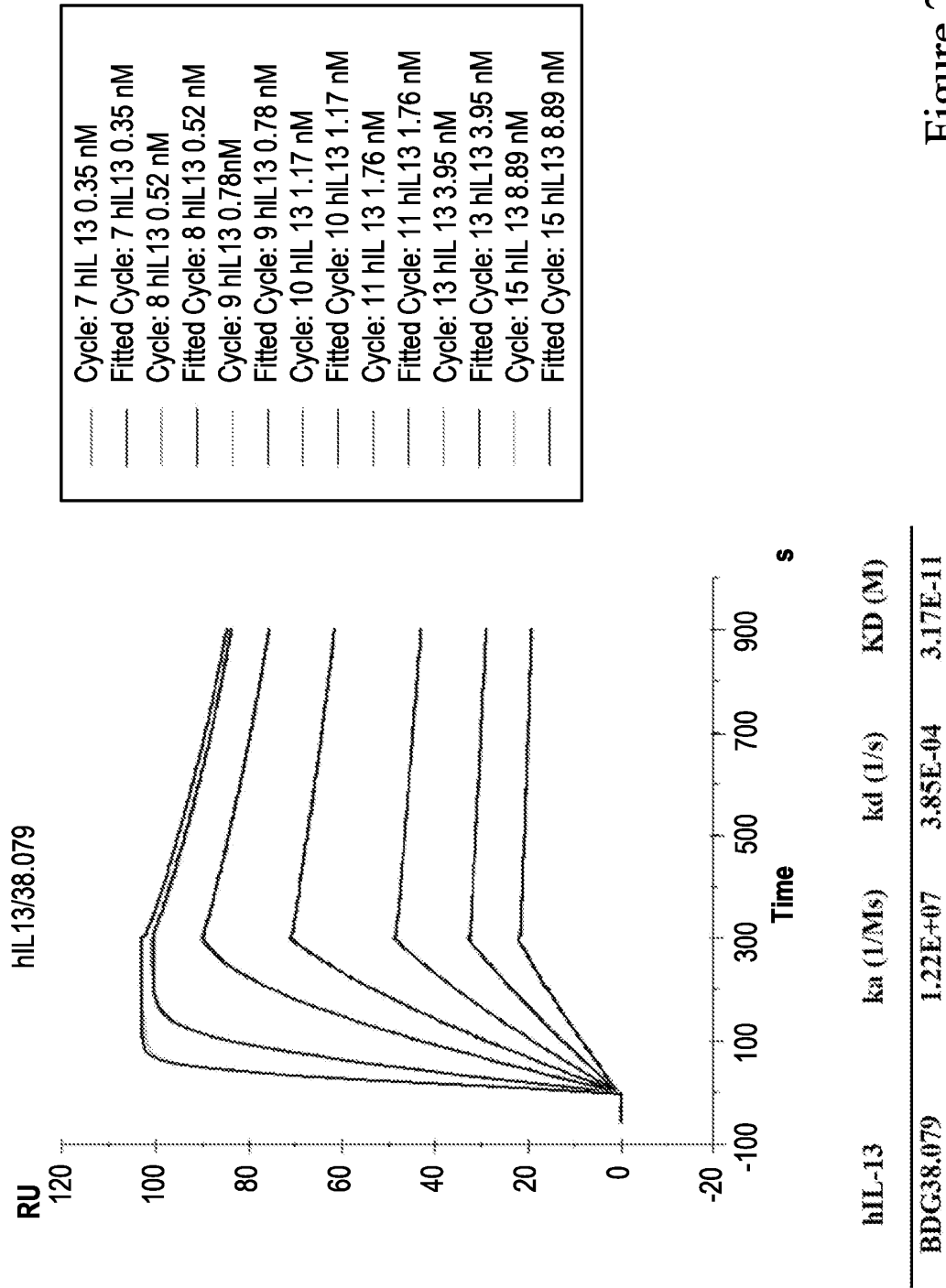


Figure 20A

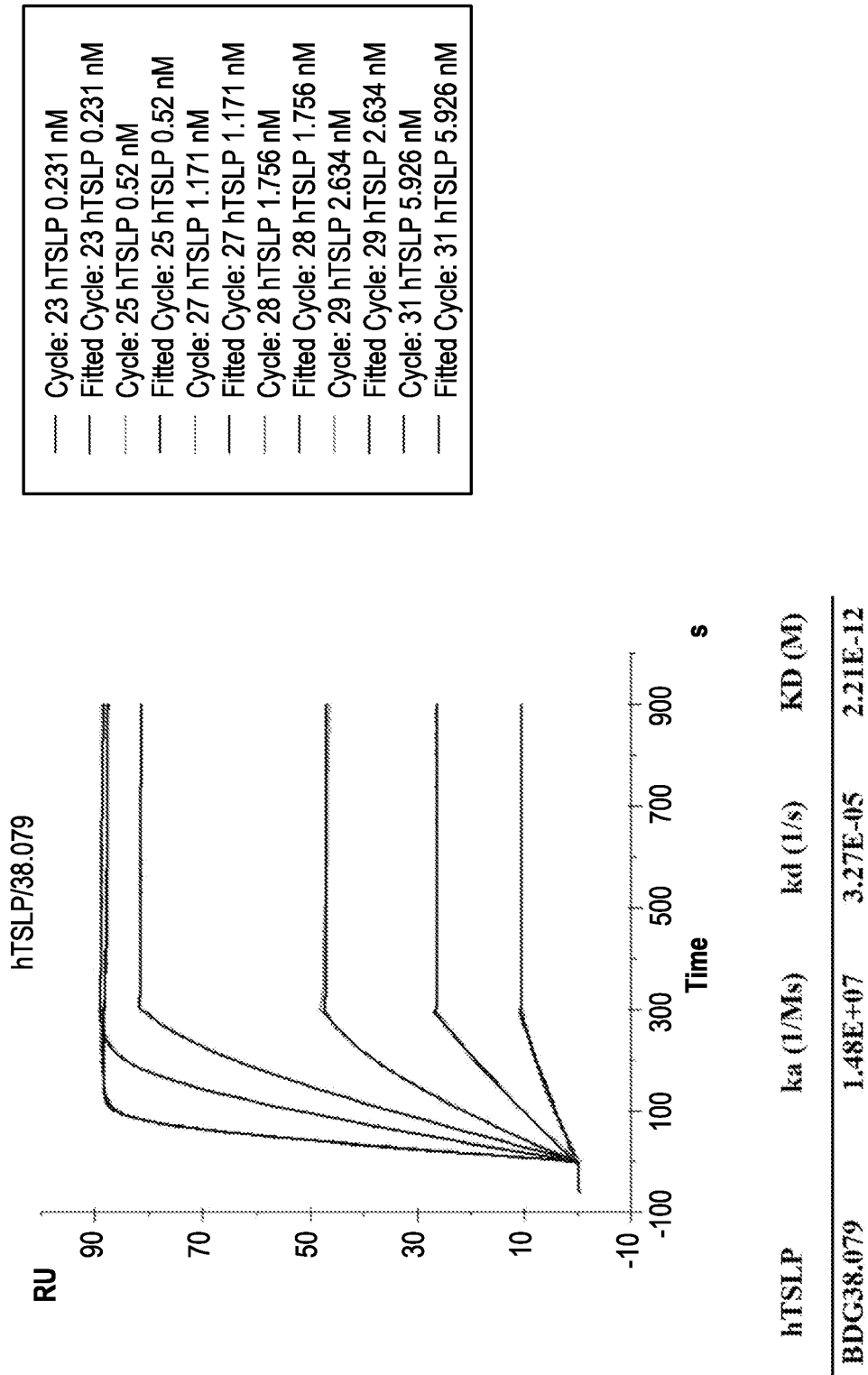


Figure 20B

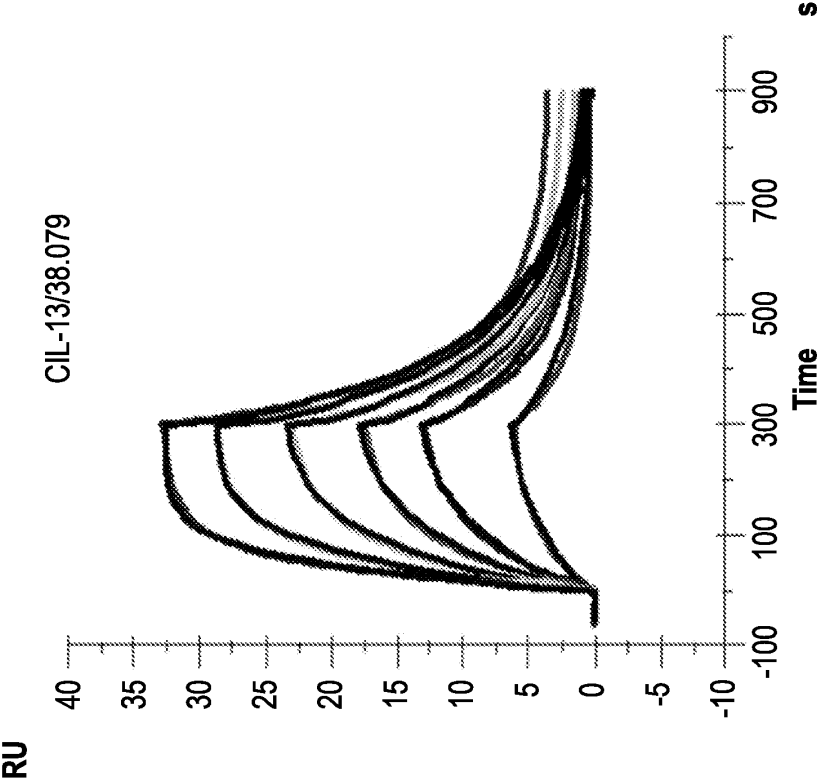


Figure 20C

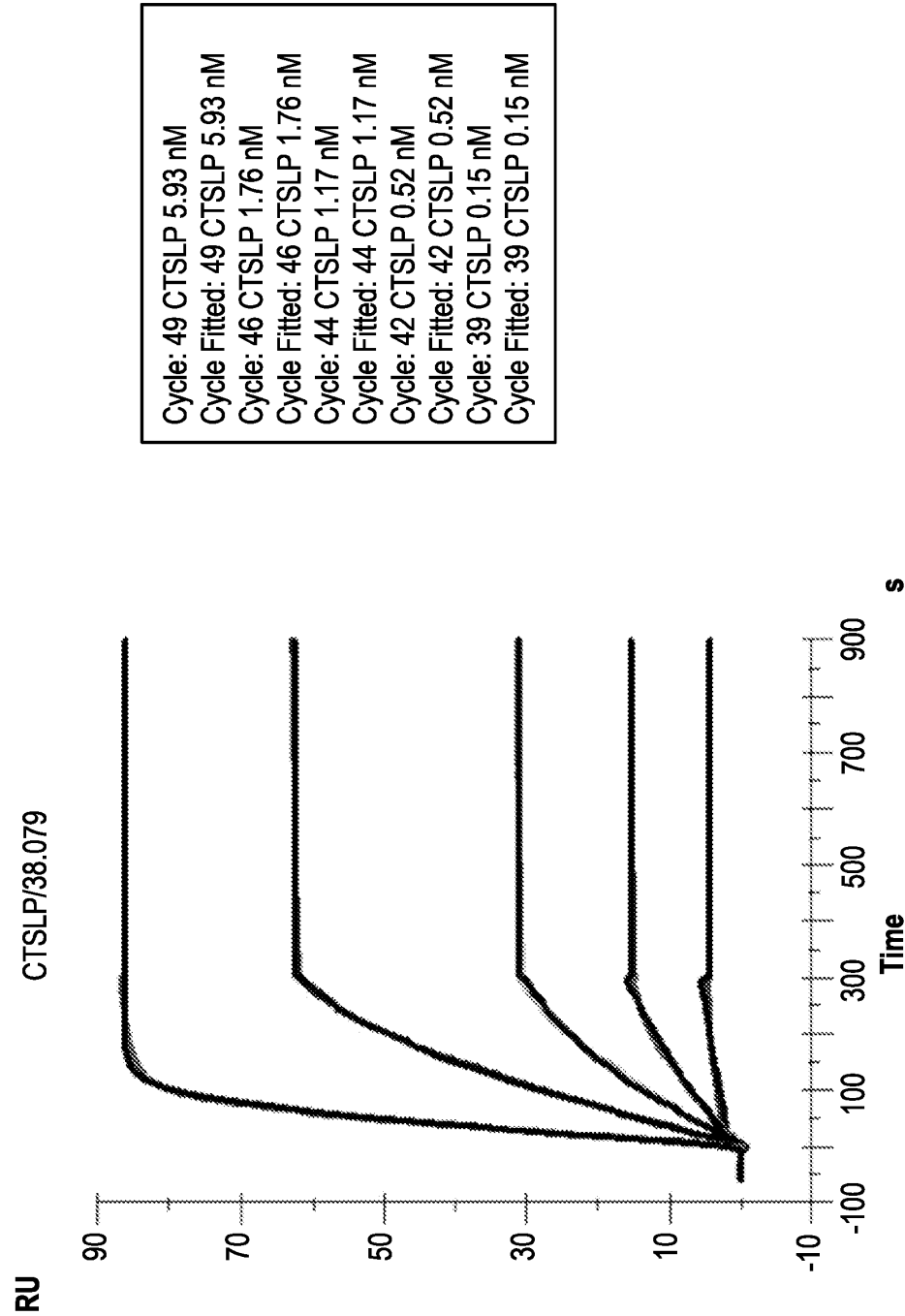


Figure 20D

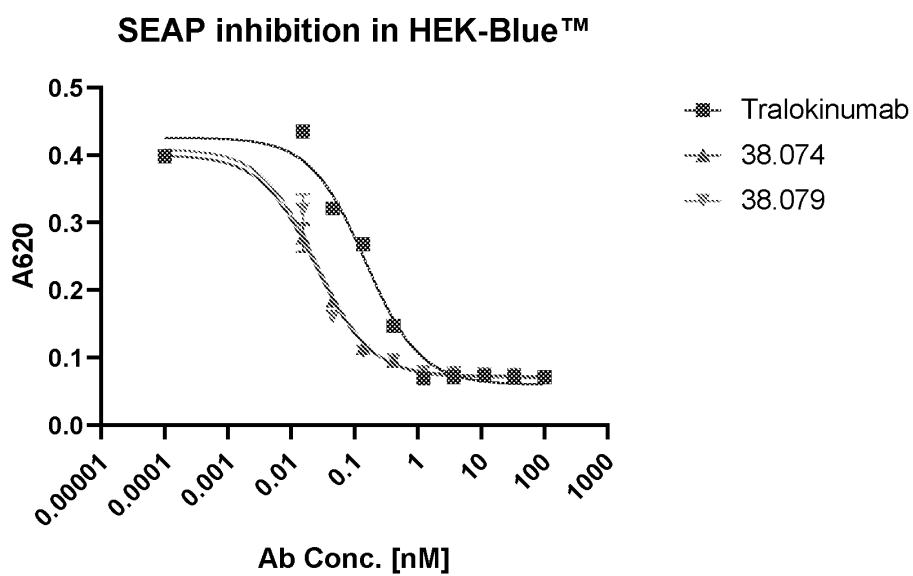
Figure 21A

	hIL-13			hTSLP		
	ka (1/Ms)	kd (1/s)	KD (M)	ka (1/Ms)	kd (1/s)	KD (M)
BDG38.074	8.43E+06	2.49E-04	2.95E-11	1.51E+07	5.05E-05	3.34E-12
BDG38.079	1.22E+07	3.85E-04	3.17E-11	1.48E+07	3.27E-05	2.21E-12

Figure 21B

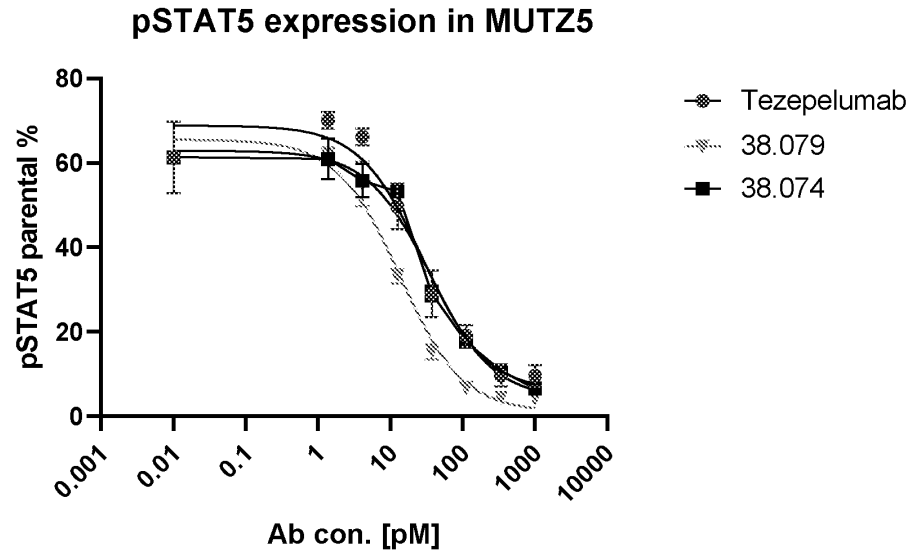
	cynoIL-13			cynoTSLP		
	ka (1/Ms)	kd (1/s)	KD (M)	ka (1/Ms)	kd (1/s)	KD (M)
BDG38.074	8.78E+06	0.006436	7.33E-10	1.11E+07	4.60E-05	4.16E-12
BDG38.079	1.56E+07	0.01407	9.01E-10	1.03E+07	4.08E-05	3.97E-12

Figure 22



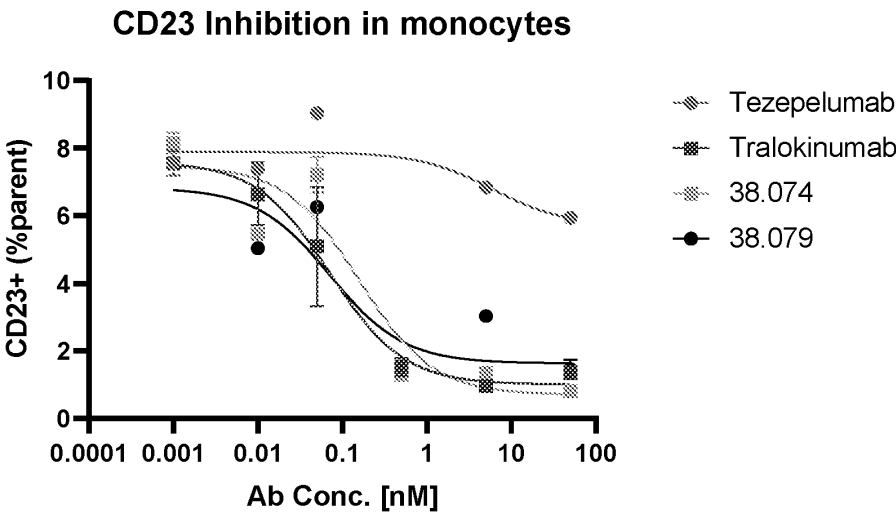
	Tralokinumab	38.074	38.079
IC50 [nM]	0.1477	0.02407	0.02530

Figure 23



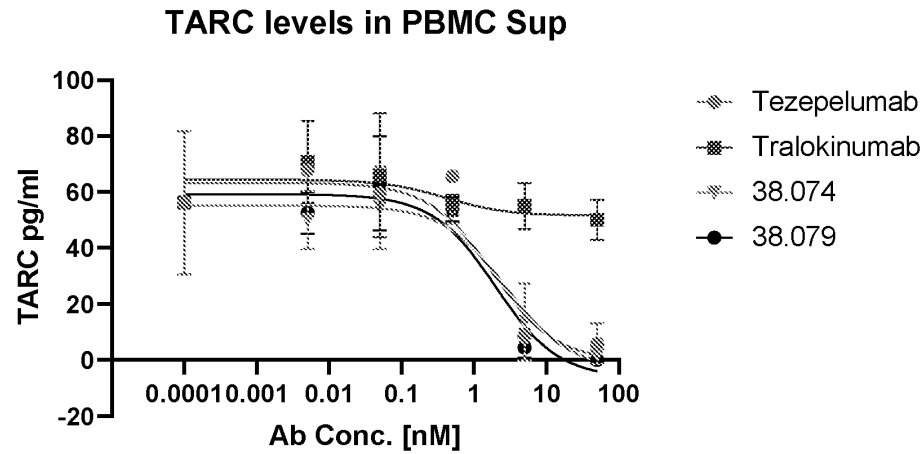
	Tezepelumab	38.074	38.079
IC50 [pM]	27.72	35.36	13.44

Figure 24A



	Anti-IL-13 benchmark	38.074	38.079
IC50	0.07119	0.1578	0.07179

Figure 24B



	Anti-TSLP benchmark	38.074	38.079
IC50 [nM]	1.775	2.771	1.961

Figure 25A

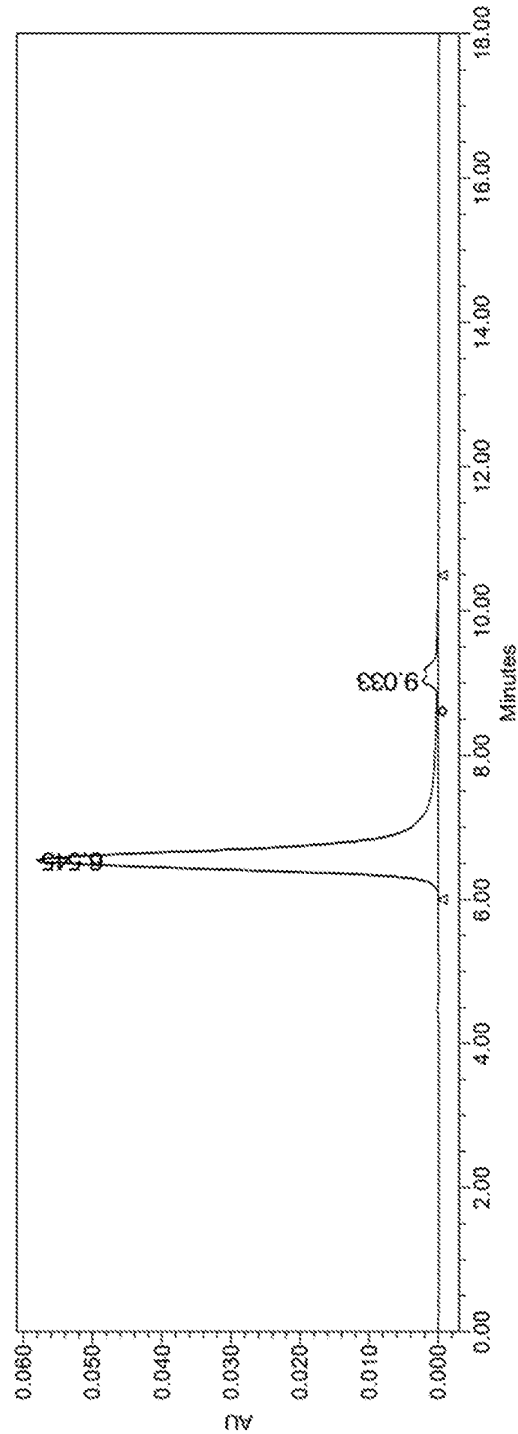
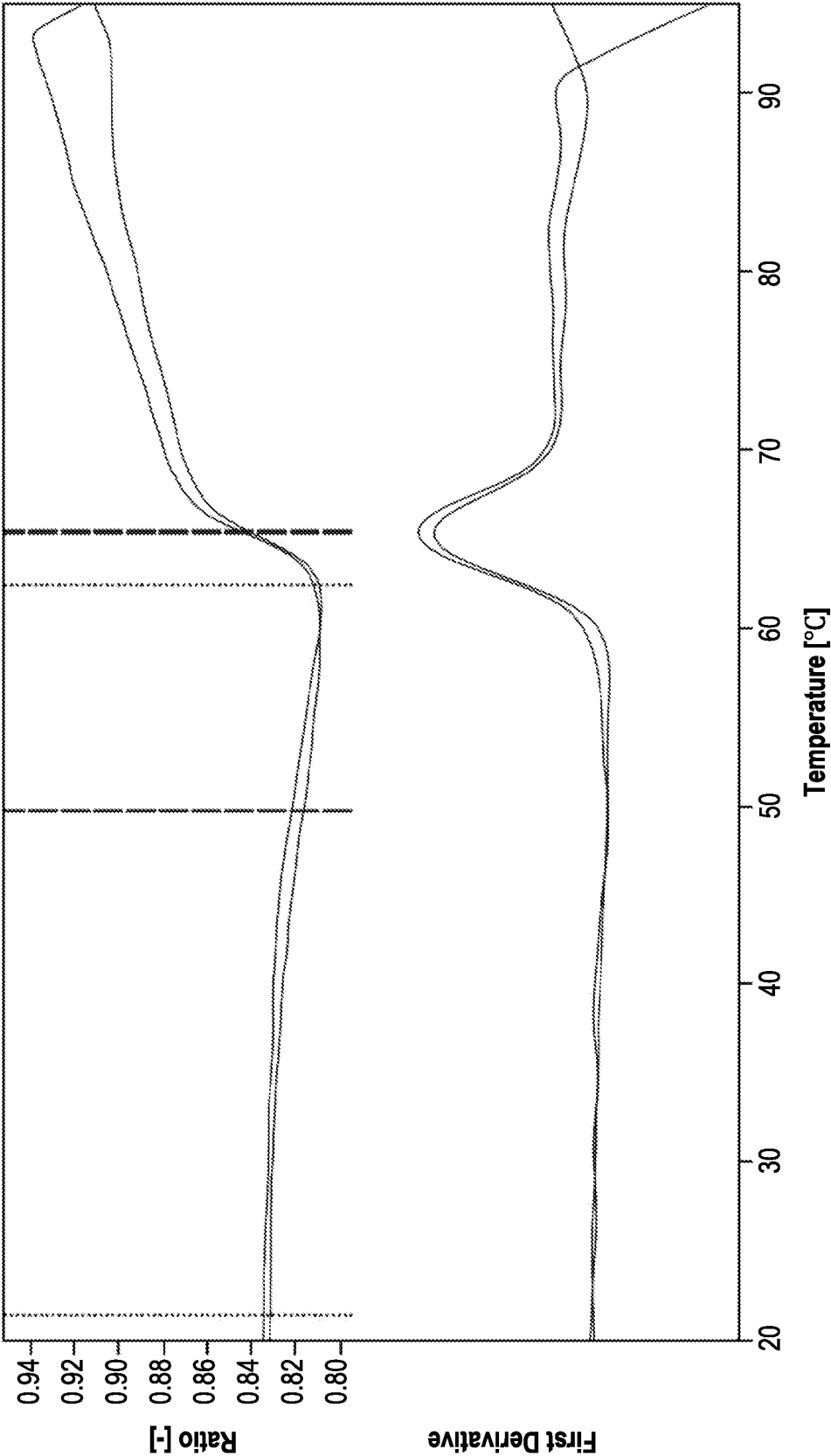


Figure 25B



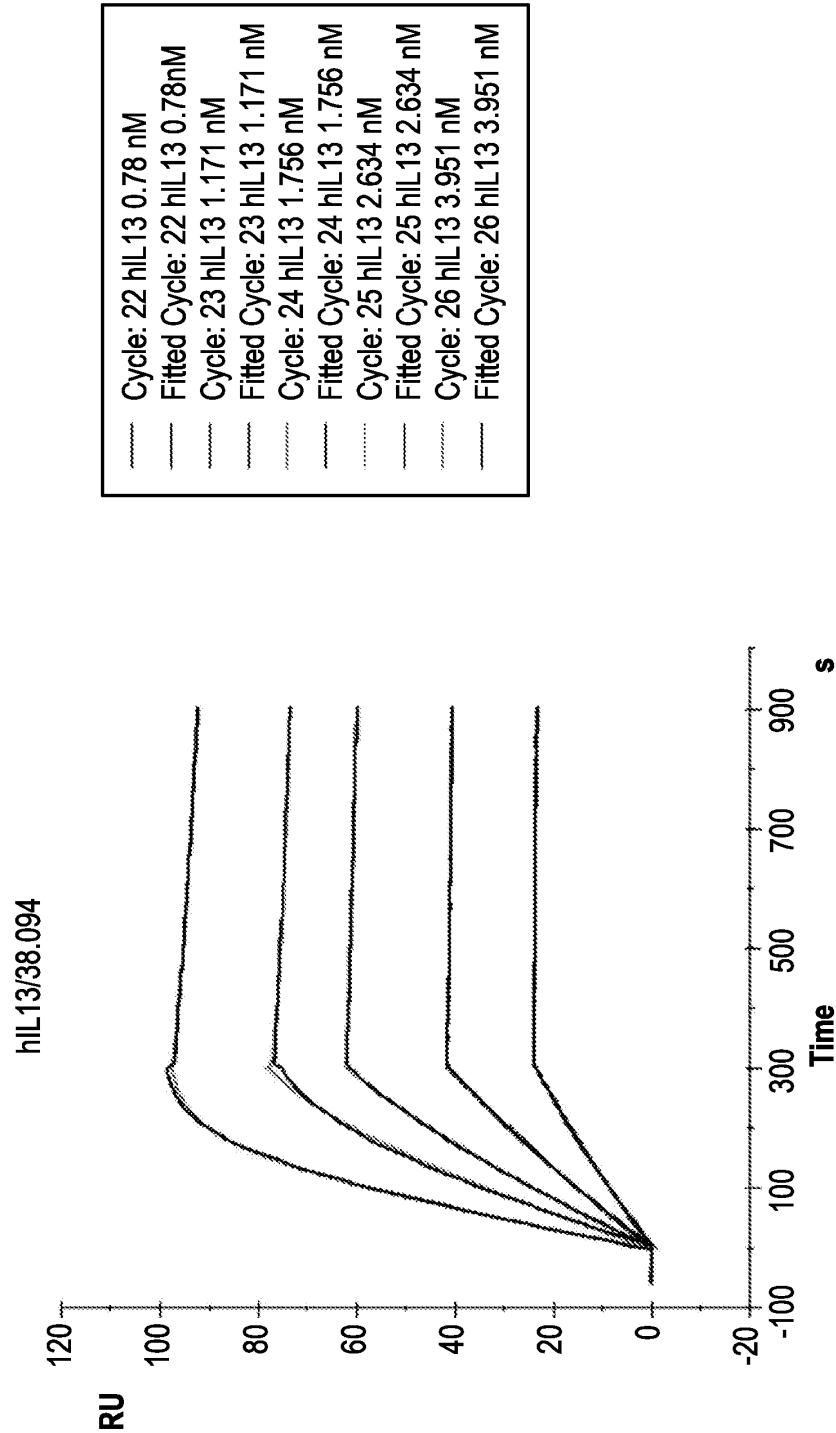
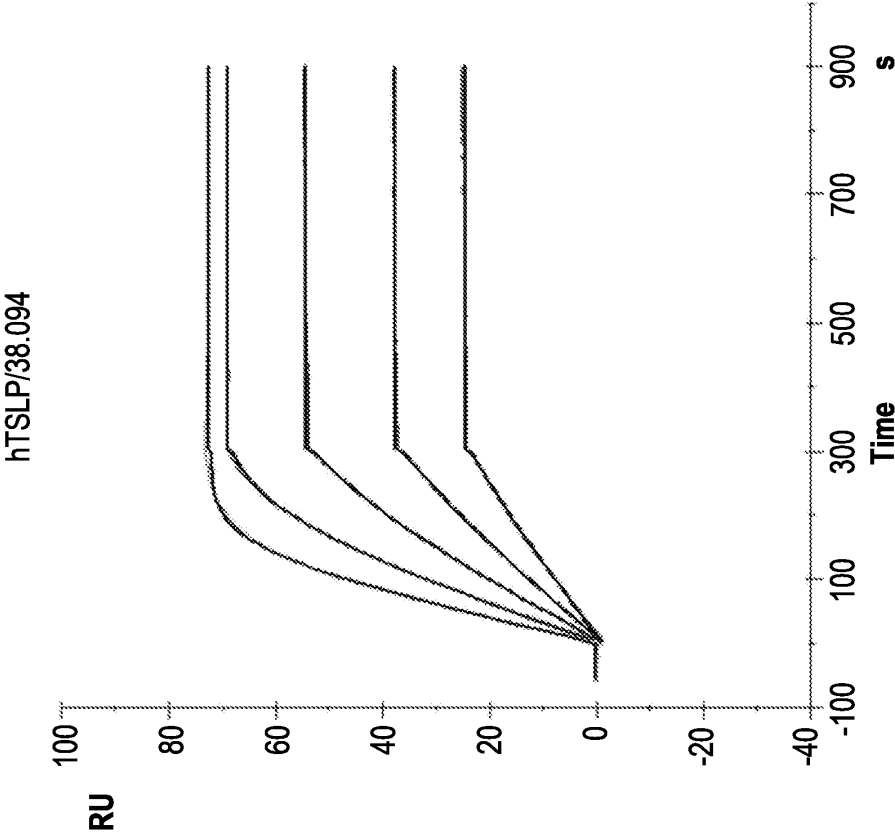


Figure 26A



..... Cycle: 21 hTSLP 0.52 nM
—— Fitted Cycle: 21 hTSLP 0.52 nM
..... Cycle: 22 hTSLP 0.78 nM
—— Fitted Cycle: 22 hTSLP 0.78 nM
..... Cycle: 23 hTSLP 1.171 nM
—— Fitted Cycle: 23 hTSLP 1.171 nM
..... Cycle: 24 hTSLP 1.756 nM
—— Fitted Cycle: 24 hTSLP 1.756 nM
..... Cycle: 25 hTSLP 2.634 nM
—— Fitted Cycle: 25 hTSLP 2.634 nM

Figure 26B

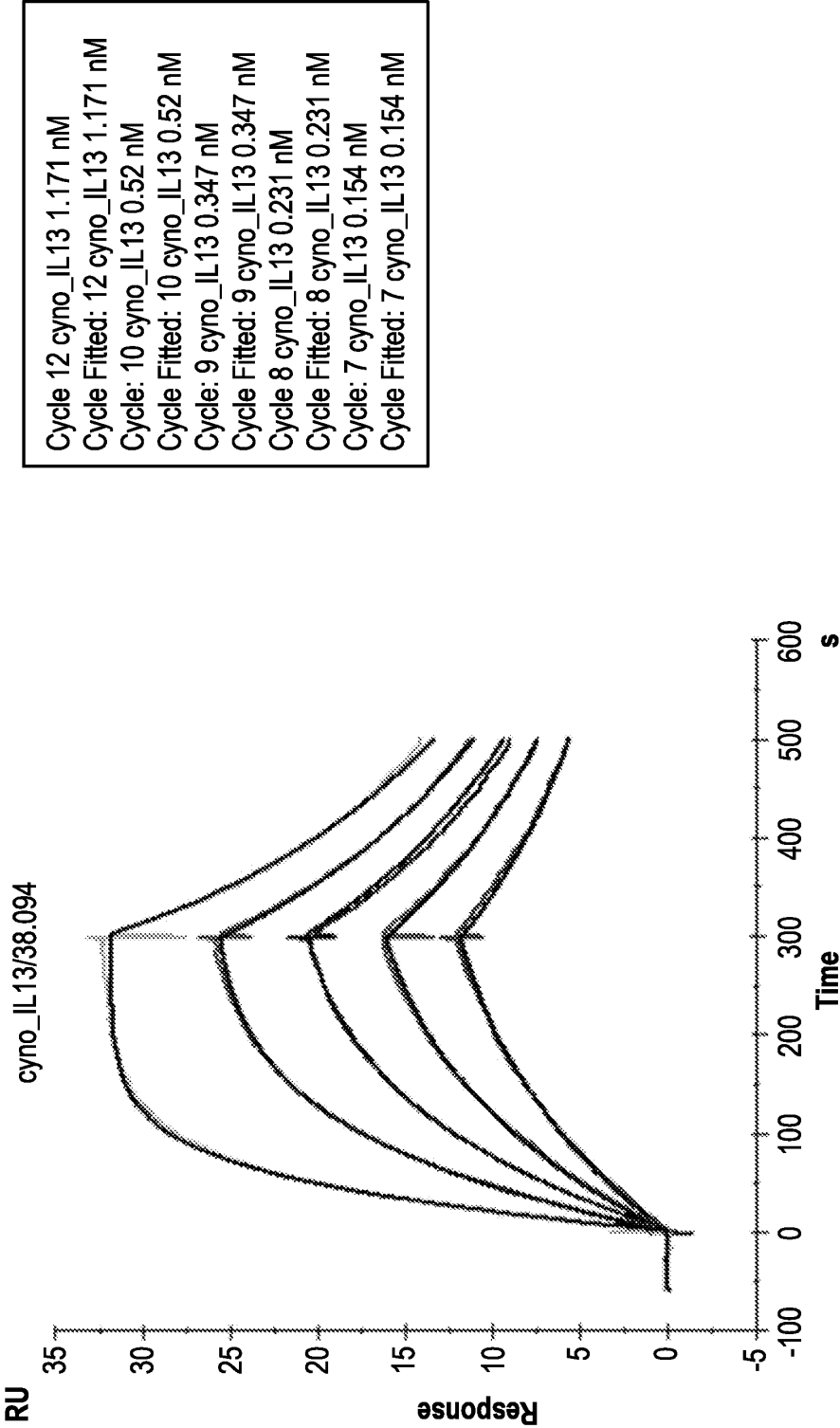


Figure 26C

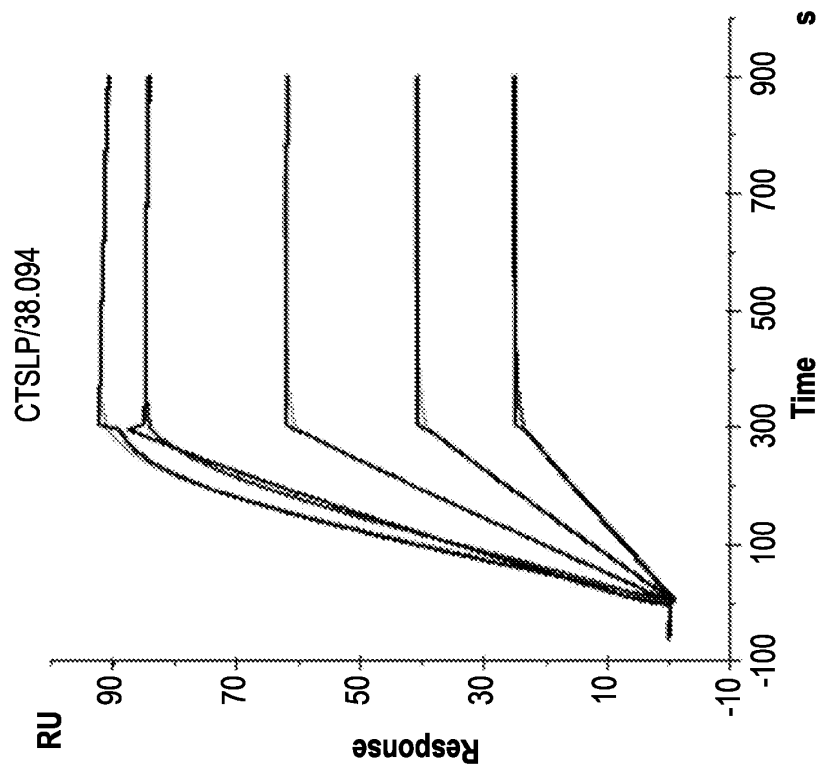


Figure 26D

Figure 27A

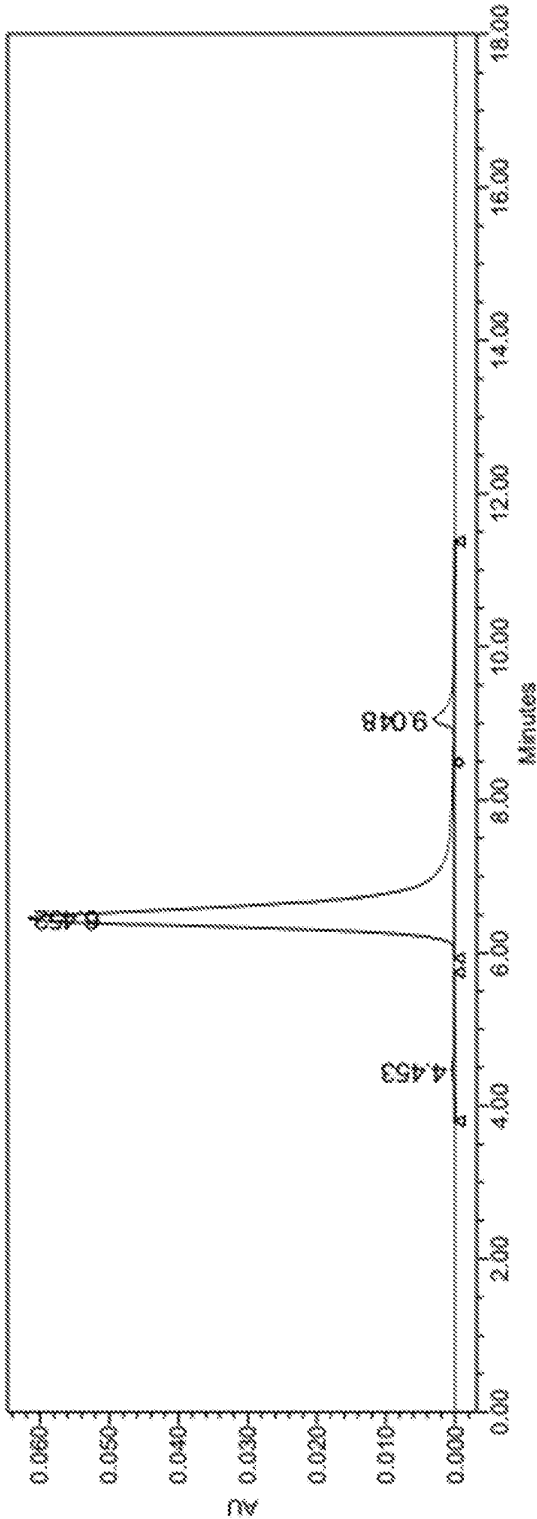
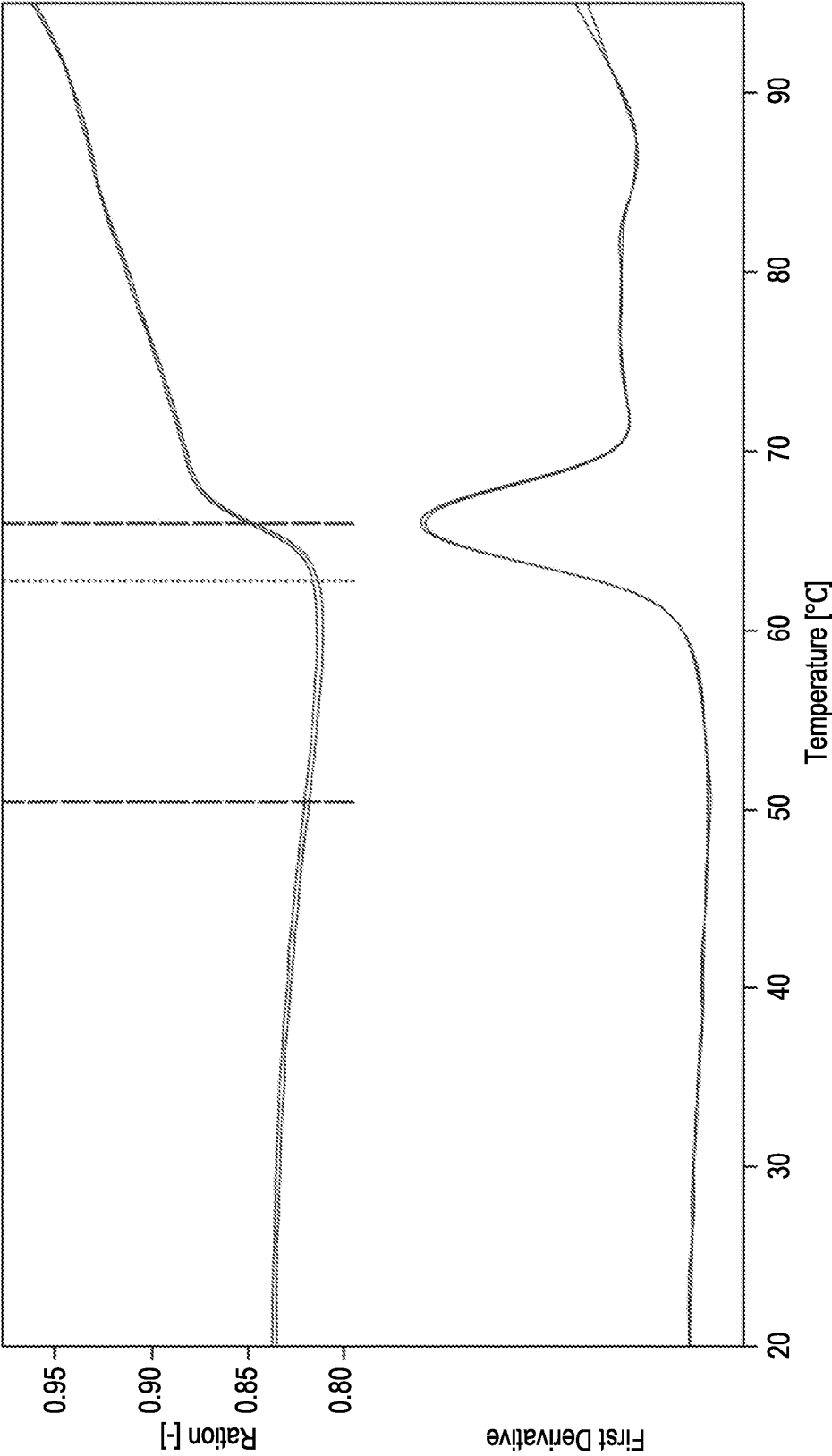


Figure 27B



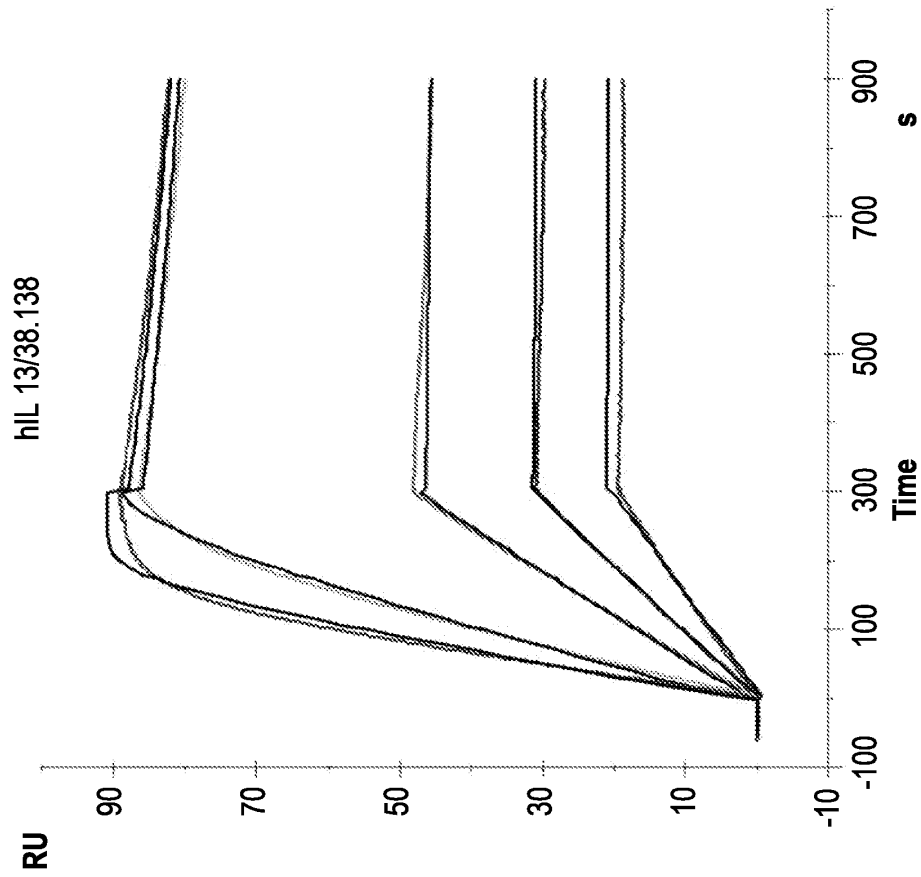


Figure 28A

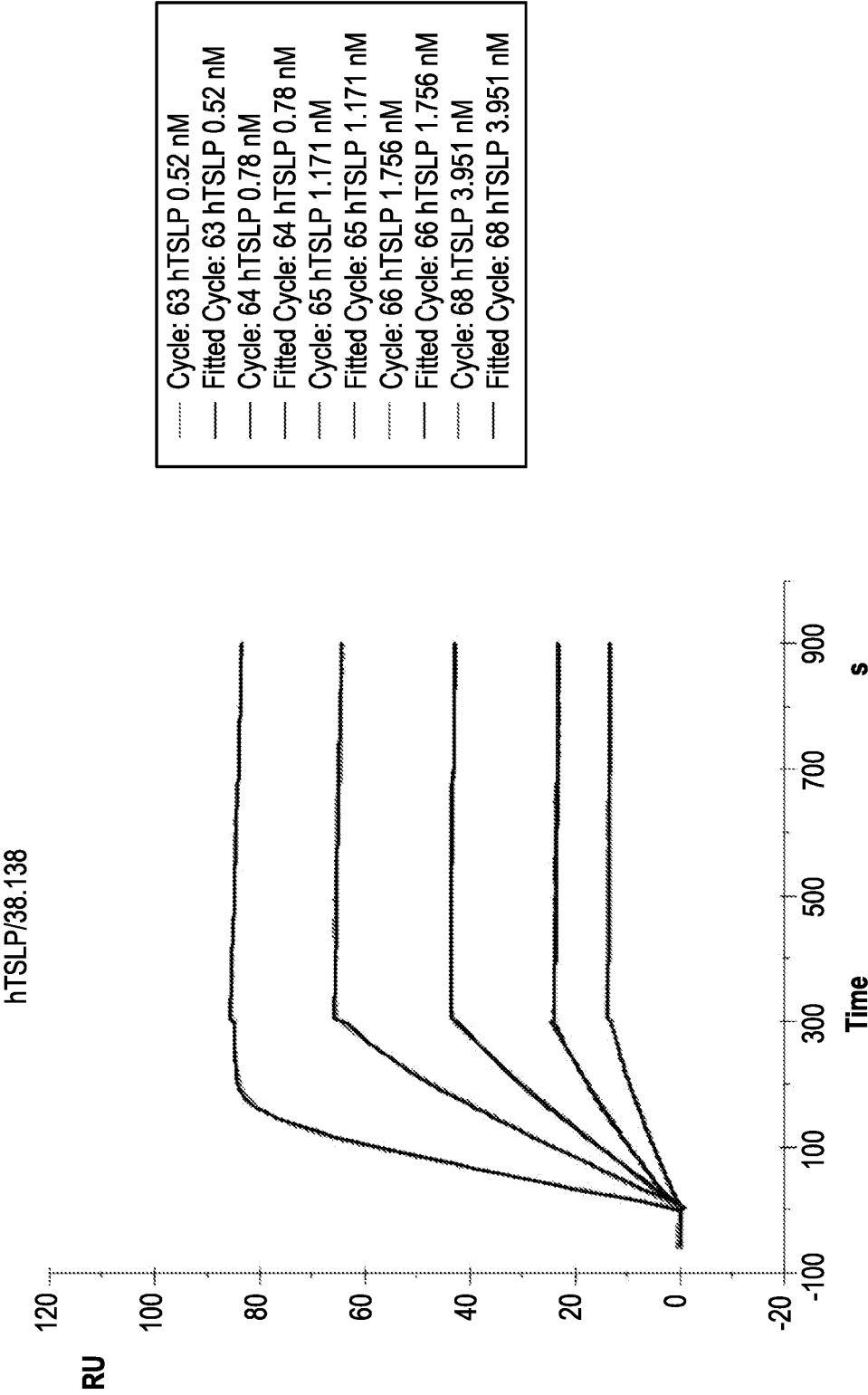


Figure 28B

Cycle: 46 cyno_IL13 1.171 nM
Cycle Fitted: 46 cyno_IL13 1.171 nM
Cycle: 44 cyno_IL13 0.52 nM
Cycle Fitted: 44 cyno_IL13 0.52 nM
Cycle: 43 cyno_IL13 0.347 nM
Cycle Fitted: 43 cyno_IL13 0.347 nM
Cycle: 42 cyno_IL13 0.231 nM
Cycle Fitted: 42 cyno_IL13 0.231 nM
Cycle: 41 cyno_IL13 0.154 nM
Cycle Fitted 41 cyno_IL13 0.154 nM

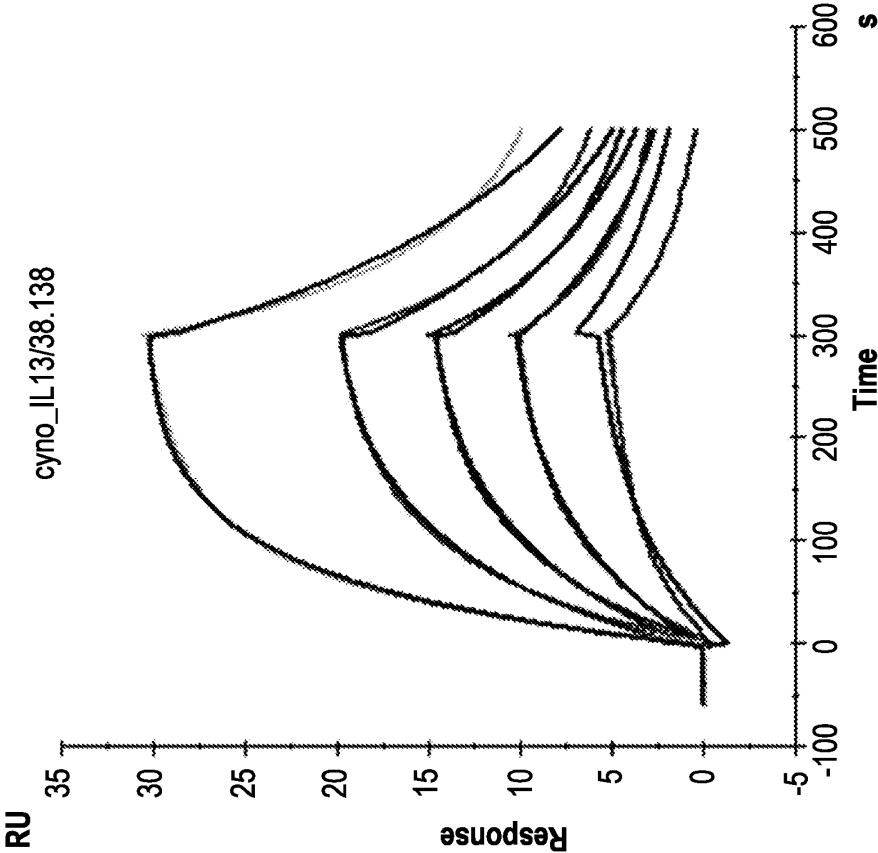
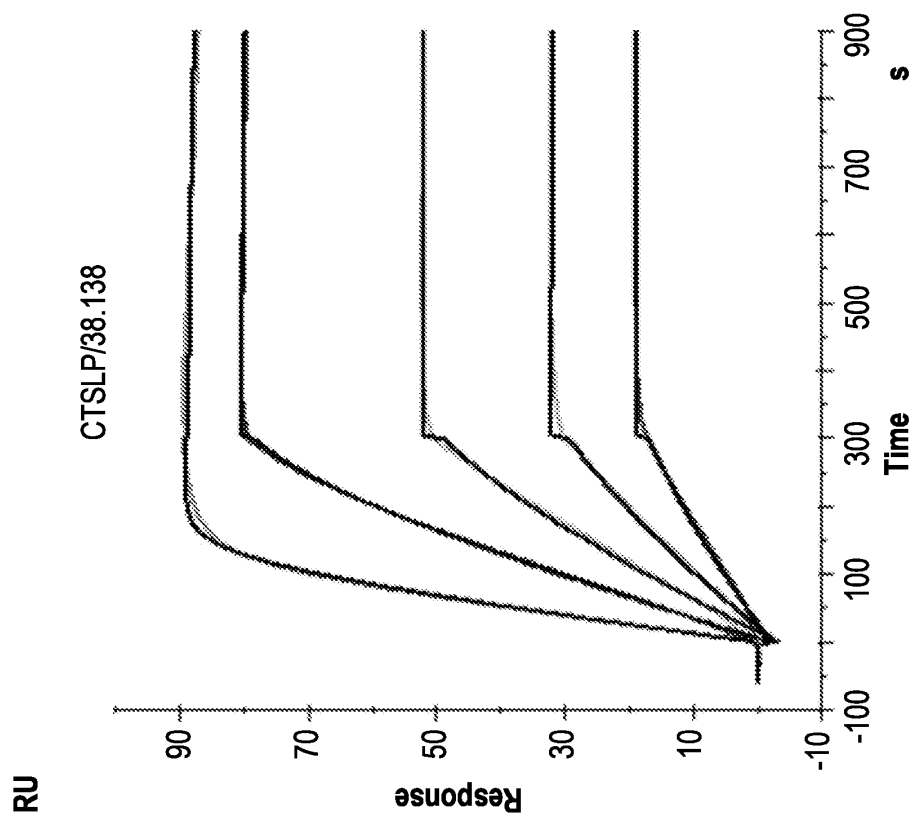


Figure 28C



Cycle: 47 CTSLP 3.95 nM
Cycle Fitted: 47 CTSLP 3.95 nM
Cycle: 45 CTSLP 1.76 nM
Cycle Fitted: 45 CTSLP 1.76 nM
Cycle: 44 CTSLP 1.17 nM
Cycle Fitted: 44 CTSLP 1.17 nM
Cycle: 43 CTSLP 0.78 nM
Cycle Fitted: 43 CTSLP 0.78 nM
Cycle: 42 CTSLP 0.52 nM
Cycle Fitted: 42 CTSLP 0.52 nM

Figure 28D