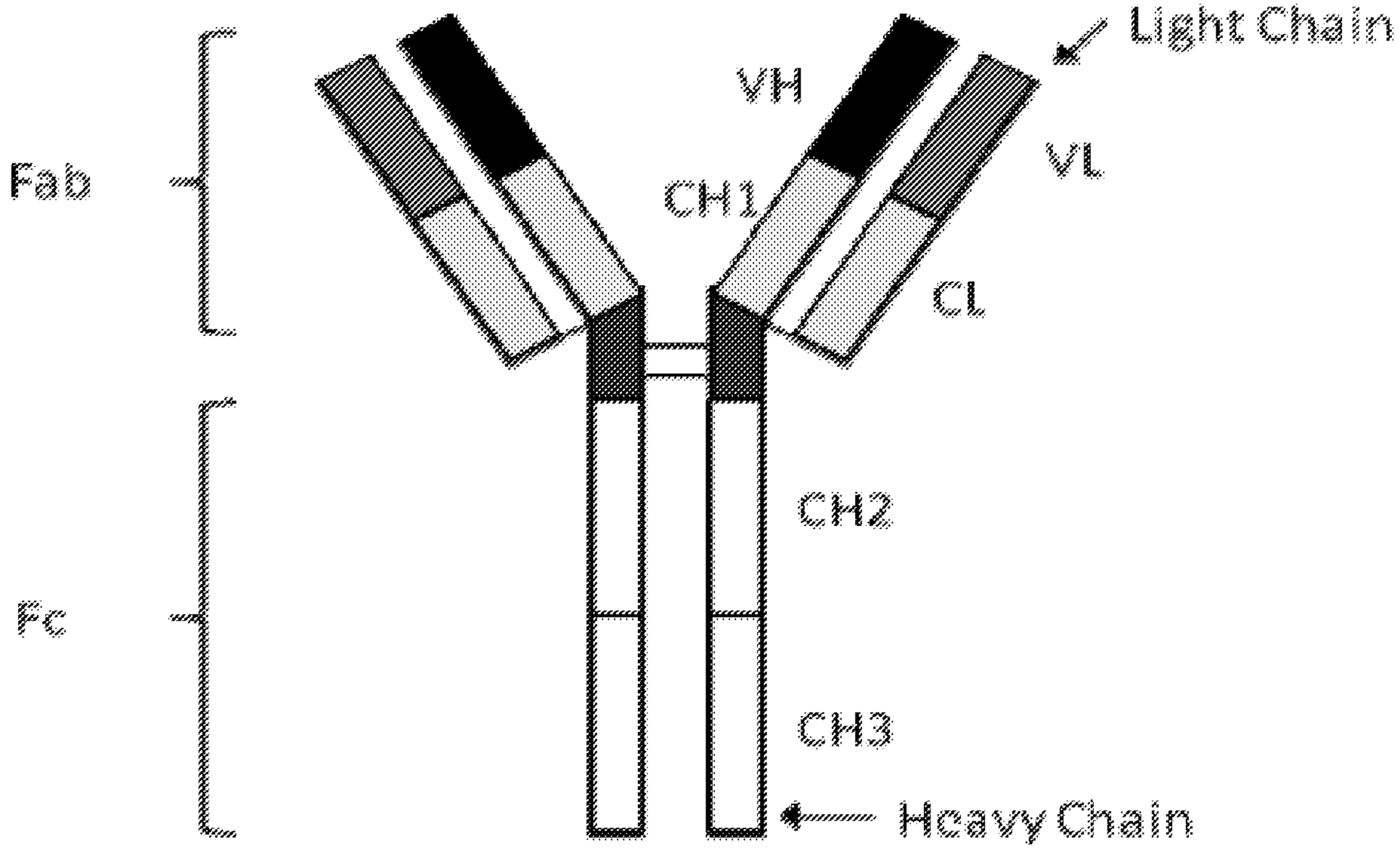


FIG. 1 (Prior Art)

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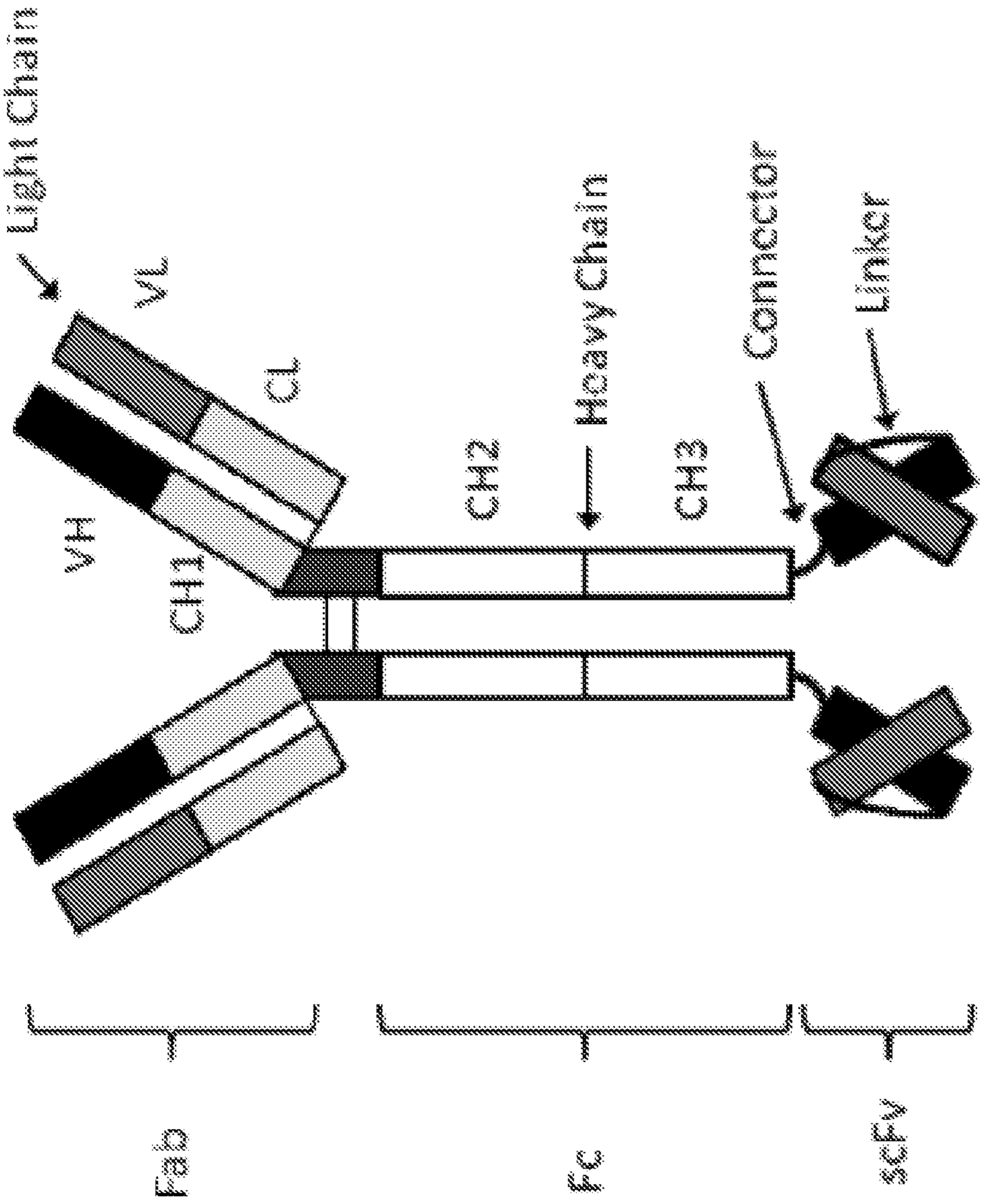
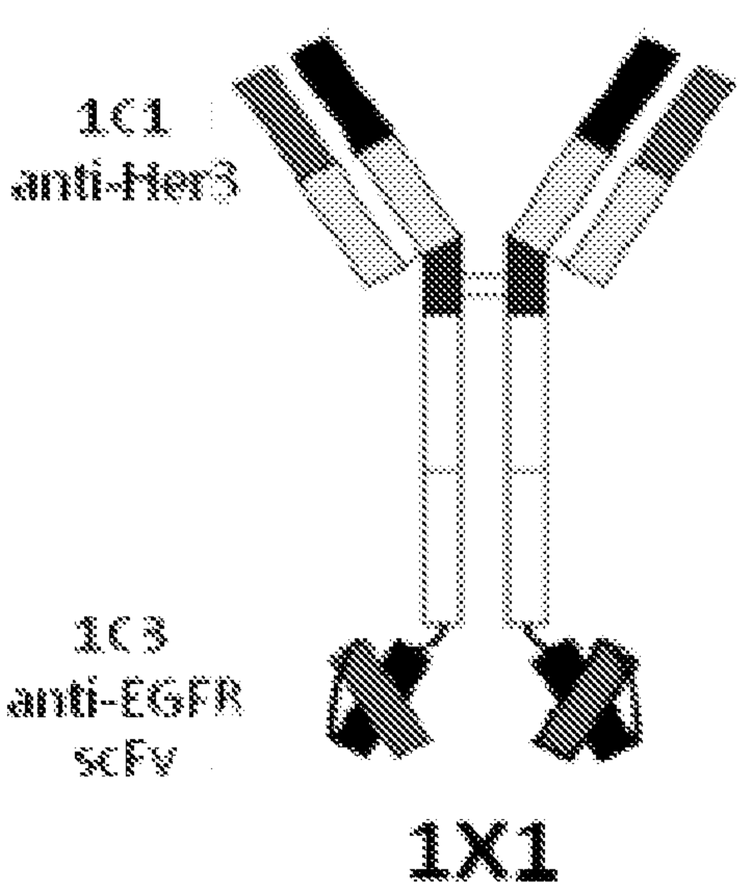
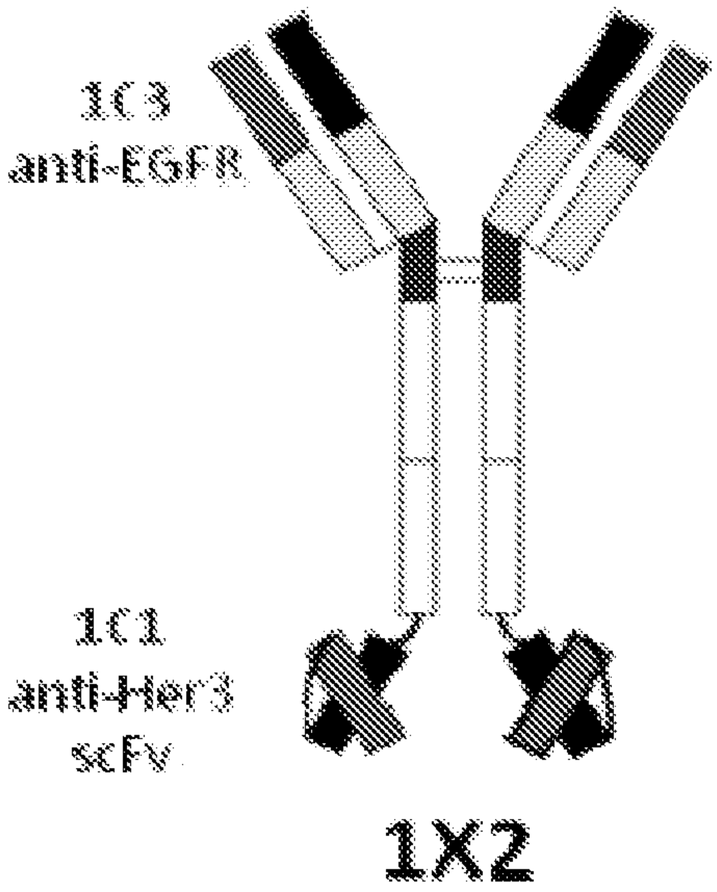

Light Chain
VL
CL
VH
CH1
CH2
Heavy Chain
CH3
Connector
Linker
Fab
Fc
scFv

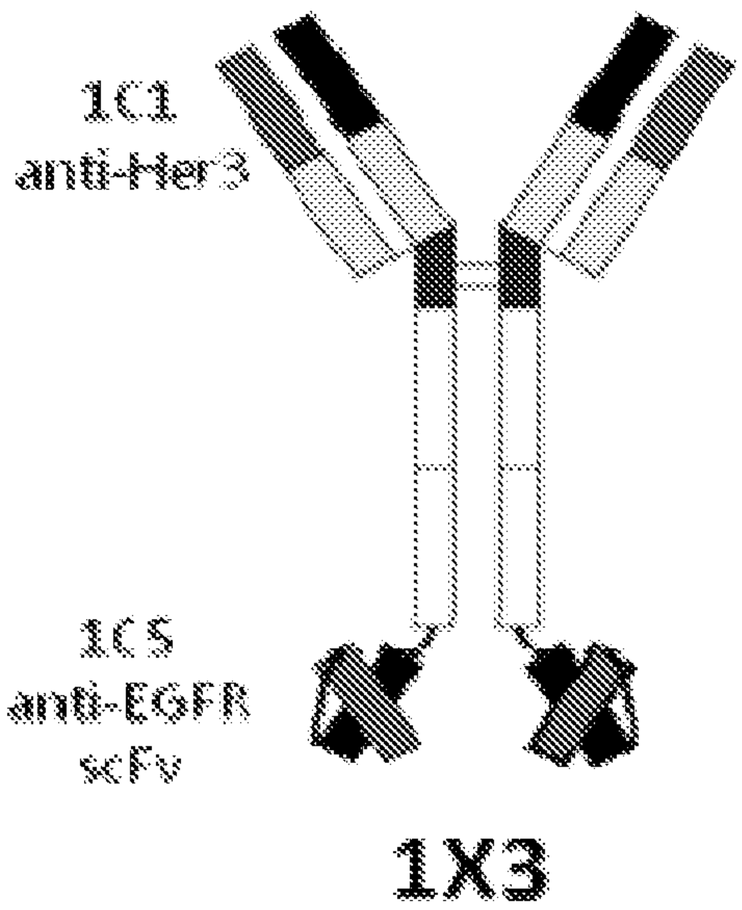
FIG. 2



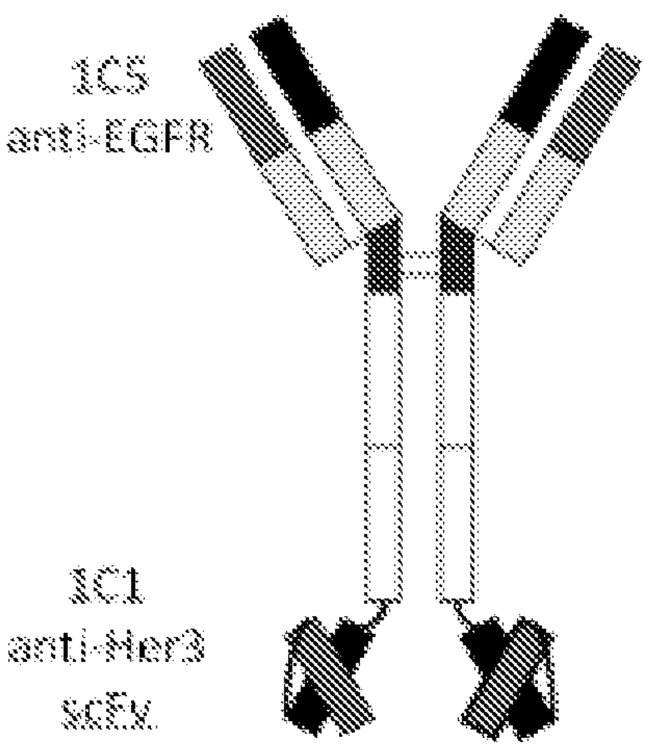
1X1



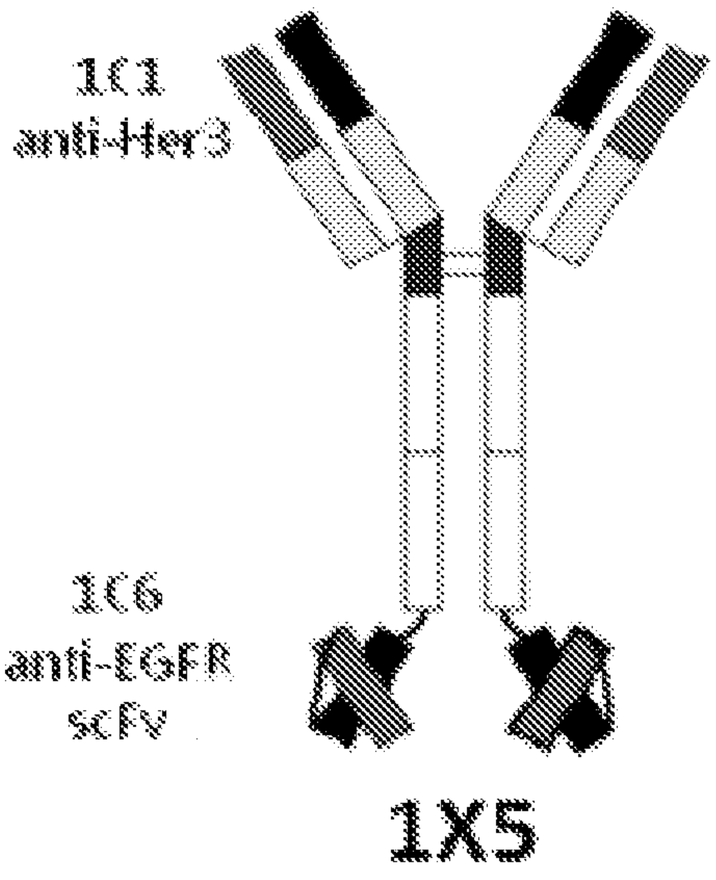
1X2



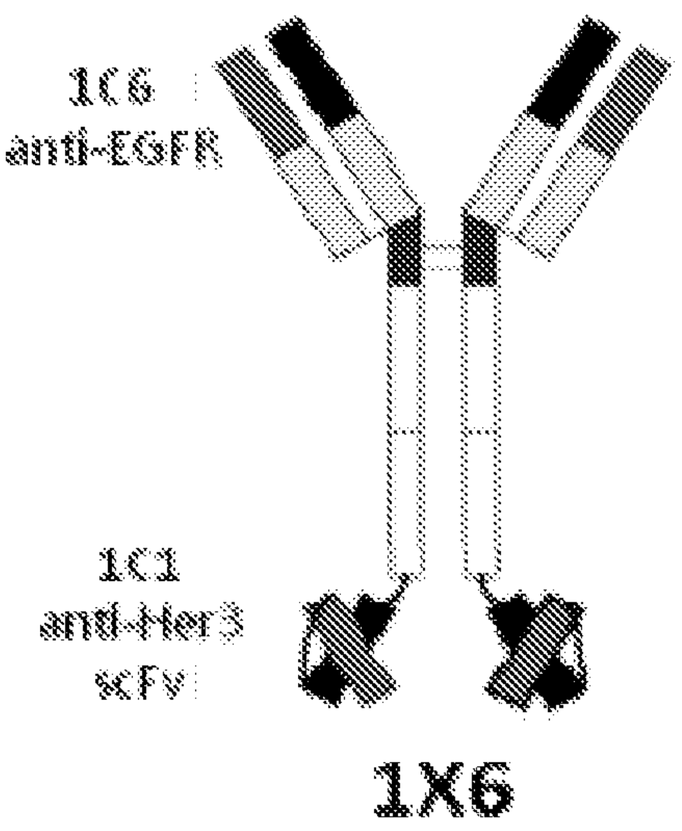
1X3



1X4 or 1X4.2



1X5



1X6

FIG. 3

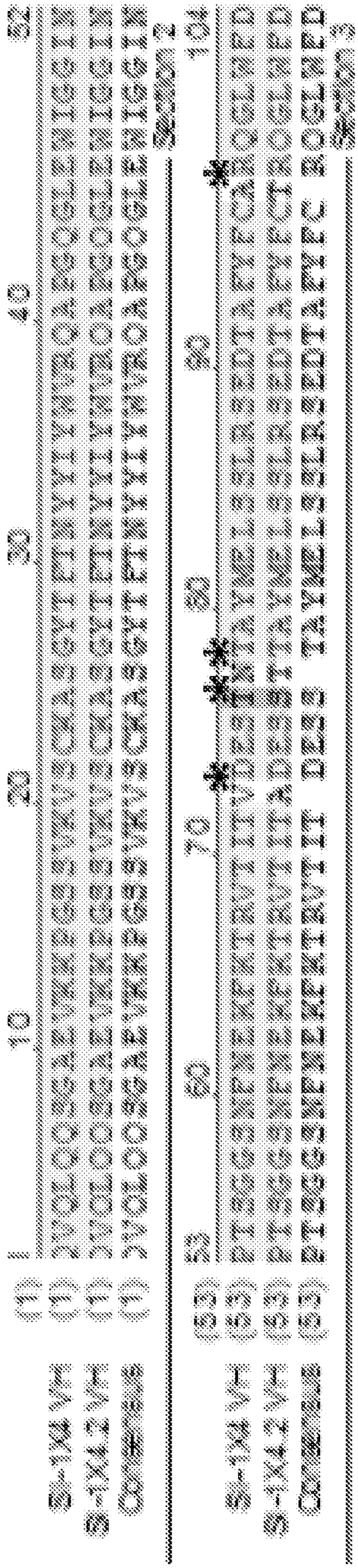


FIG. 4

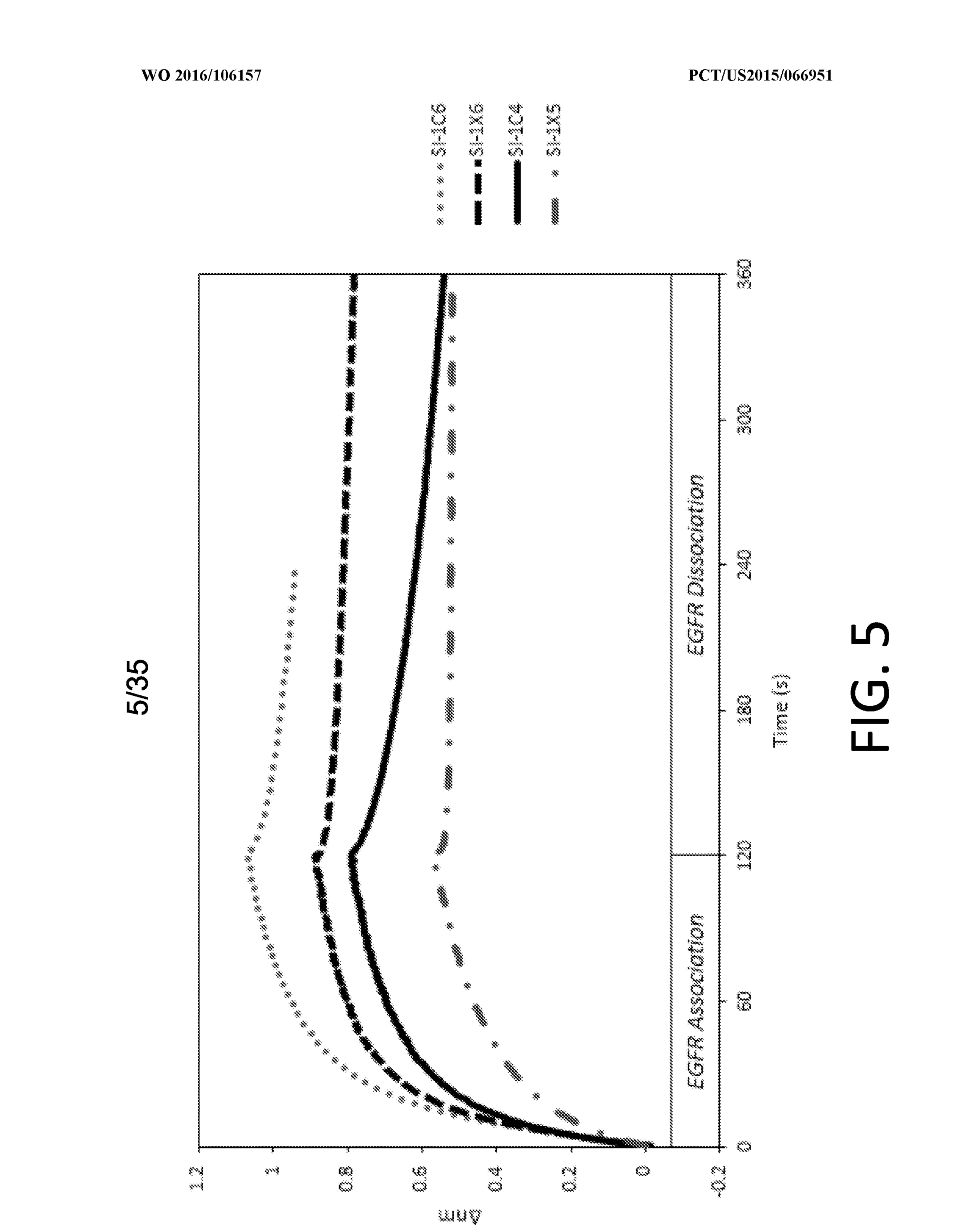

31-3C6
31-3A6
31-3C4
31-3A5
360
EGFR Dissociation
300
240
180
120
60
EGFR Association
0
Time (s)
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Δnm

FIG. 5

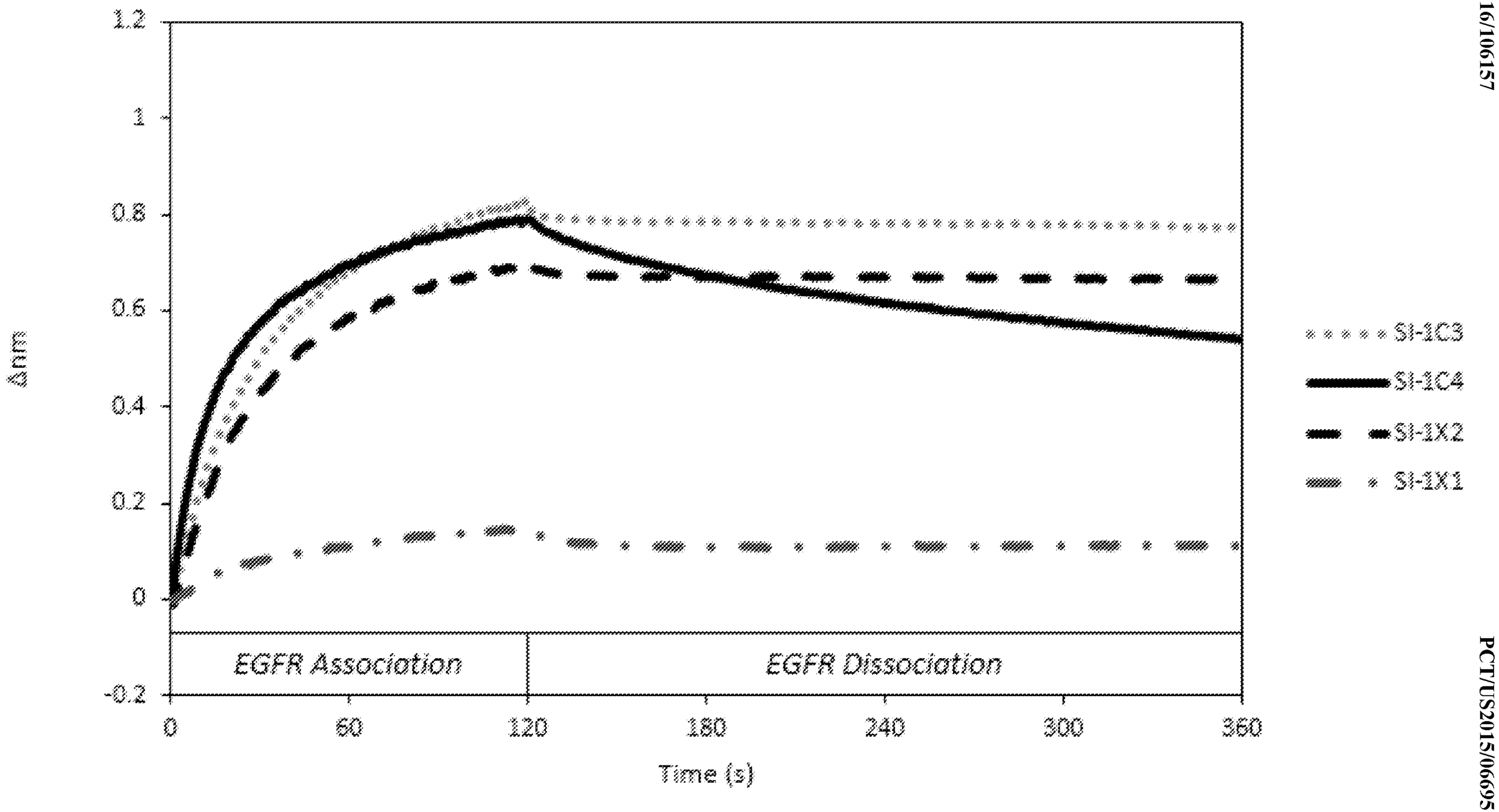

1.2
1
0.8
0.6
0.4
0.2
0
-0.2
Δnm
0
60
120
180
240
300
360
Time (s)
EGFR Association
EGFR Dissociation
SI-1C3
SI-1C4
SI-1X2
SI-1X1

FIG. 6

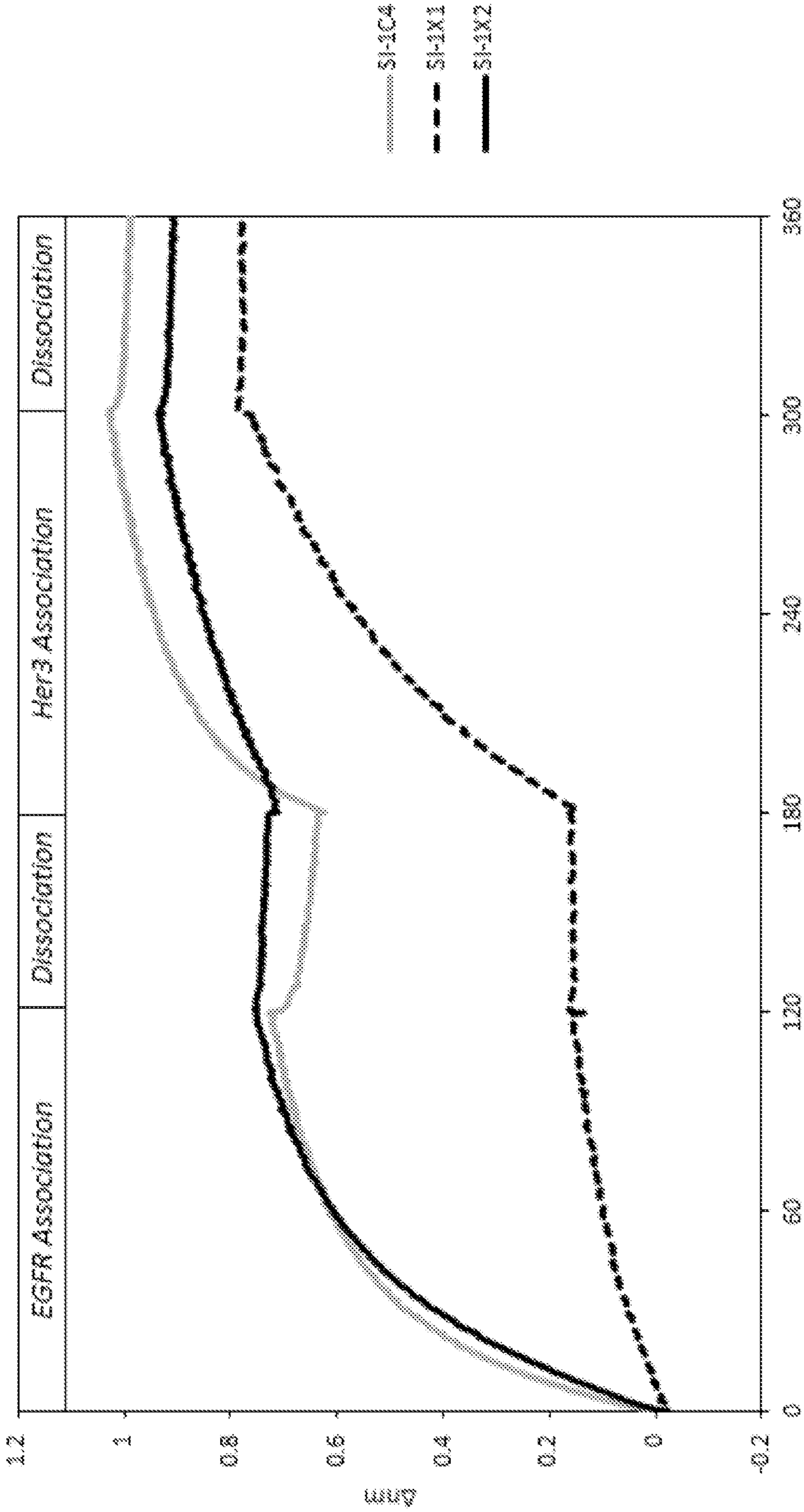

51-1C4
51-1X1
51-1X2
EGFR Association
Dissociation
Her3 Association
Dissociation
Δnm
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
0
60
120
180
240
300
360
Time (s)

FIG. 7

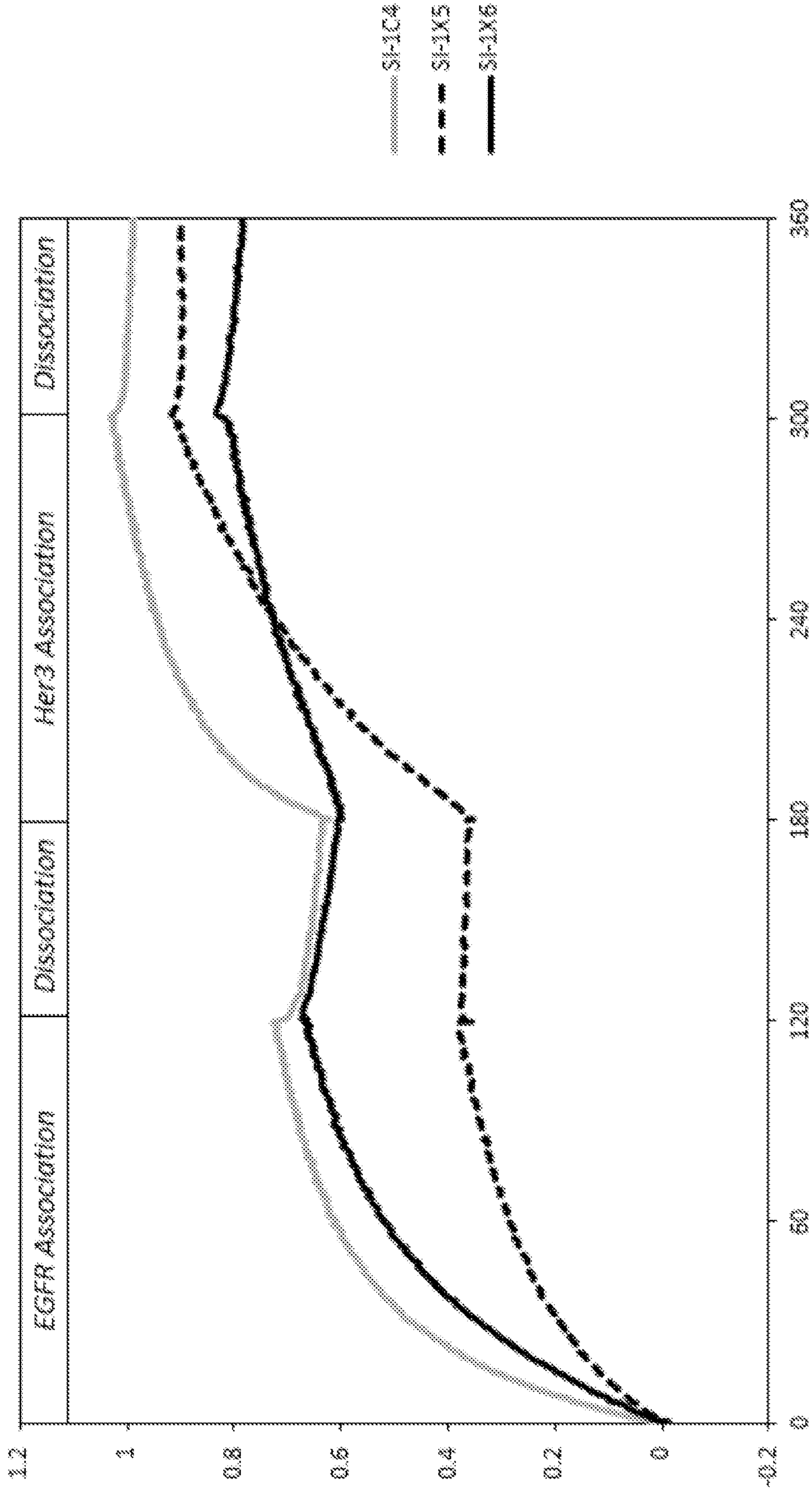

SK-126
SK-125
SK-124
EGFR Association
Her3 Association
Dissociation
Dissociation
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
nm
0
60
120
180
240
300
360
Time (s)

FIG. 8

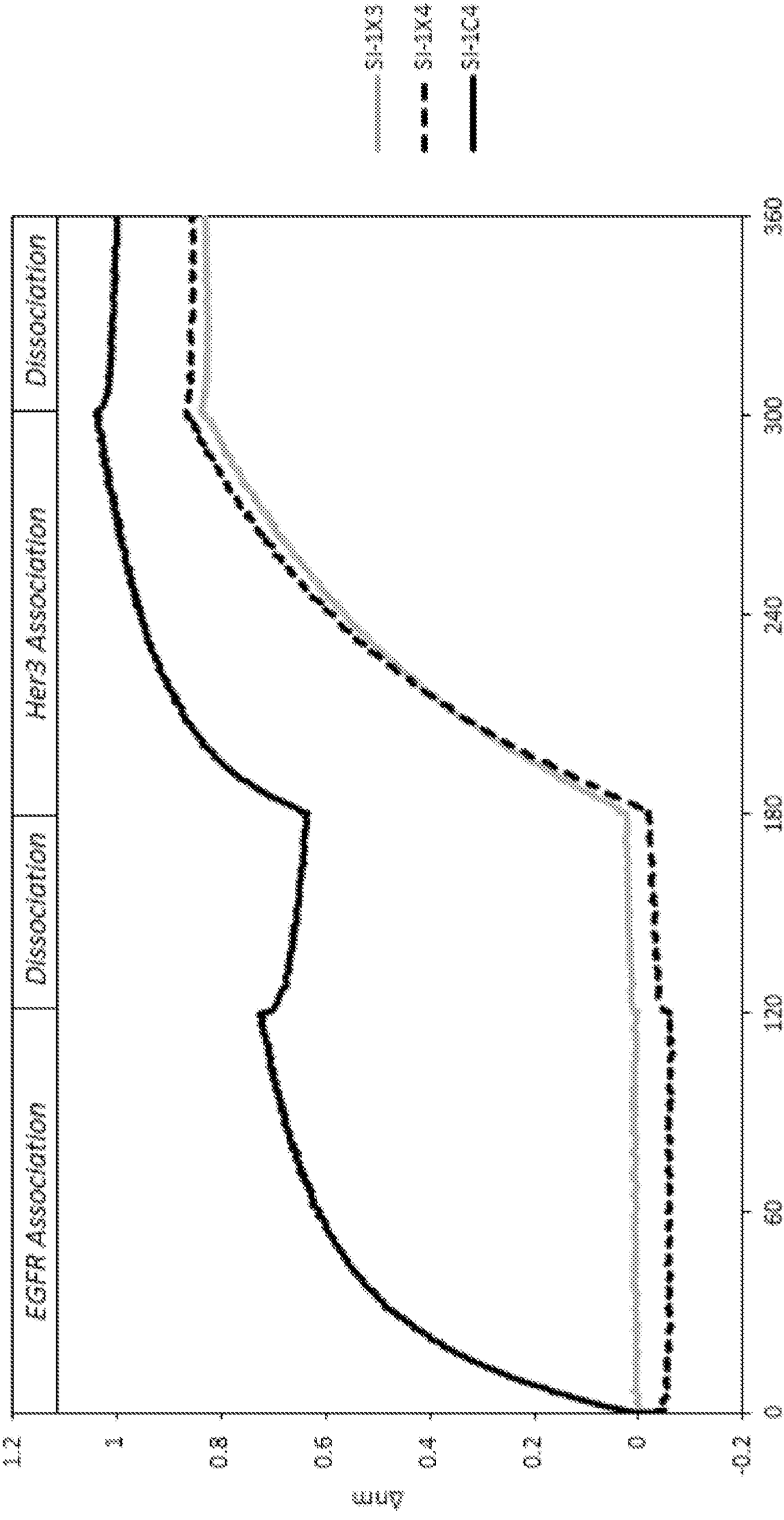

S1-1X3
S1-1X4
S1-1C4
EGFR Association
Her3 Association
Dissociation
Her3 Association
Dissociation
EGFR Association
360
300
240
180
120
60
0
Time (s)
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
nm

FIG. 9

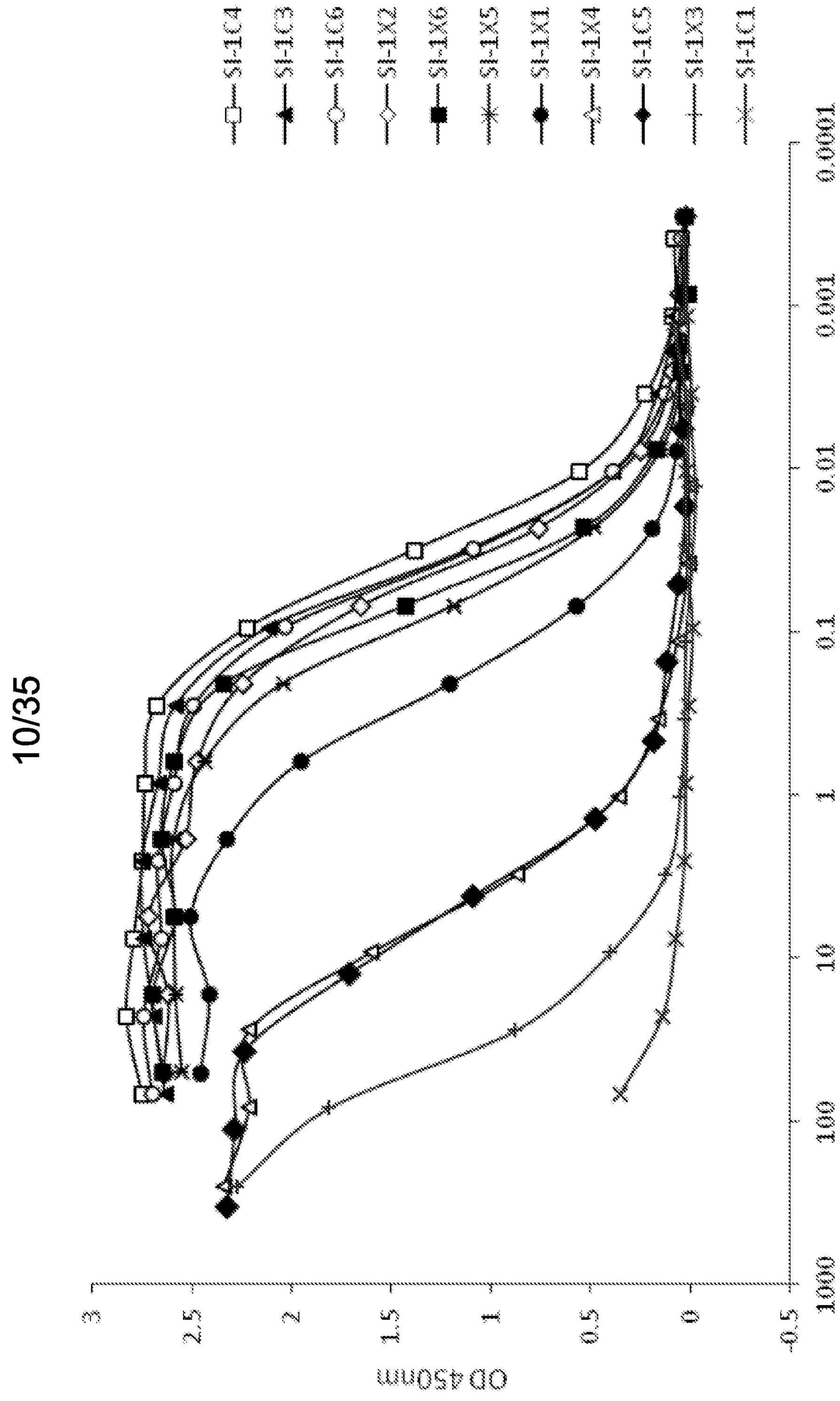

S1-1C4
S1-1C3
S1-1C6
S1-1X2
S1-1X6
S1-1X5
S1-1X1
S1-1X4
S1-1C5
S1-1X3
S1-1C1
0.0001
0.001
0.01
0.1
1
10
100
1000
Ab [nM]
OD450nm
3
2.5
2
1.5
1
0.5
0
-0.5

FIG. 10

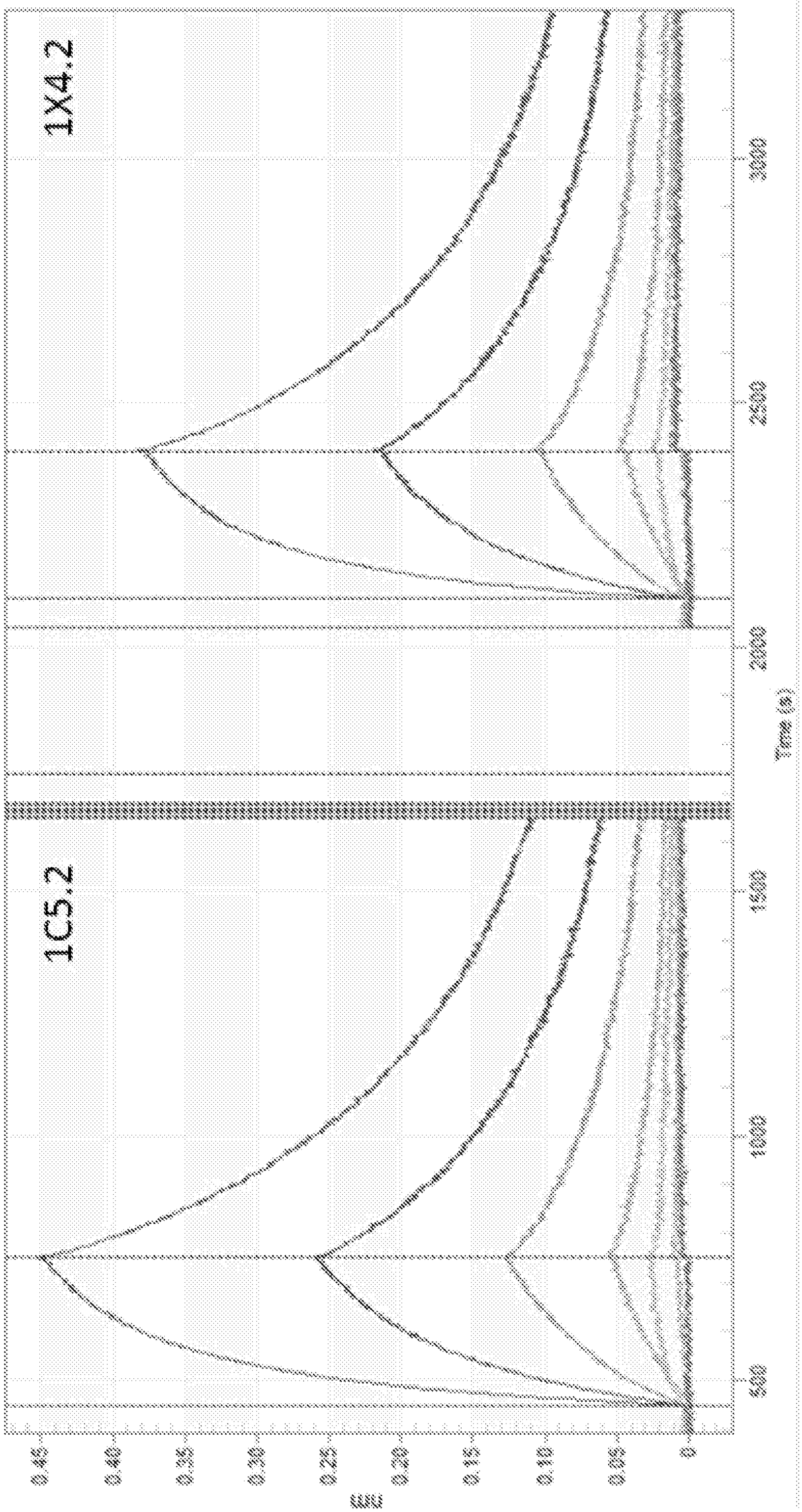


FIG. 11

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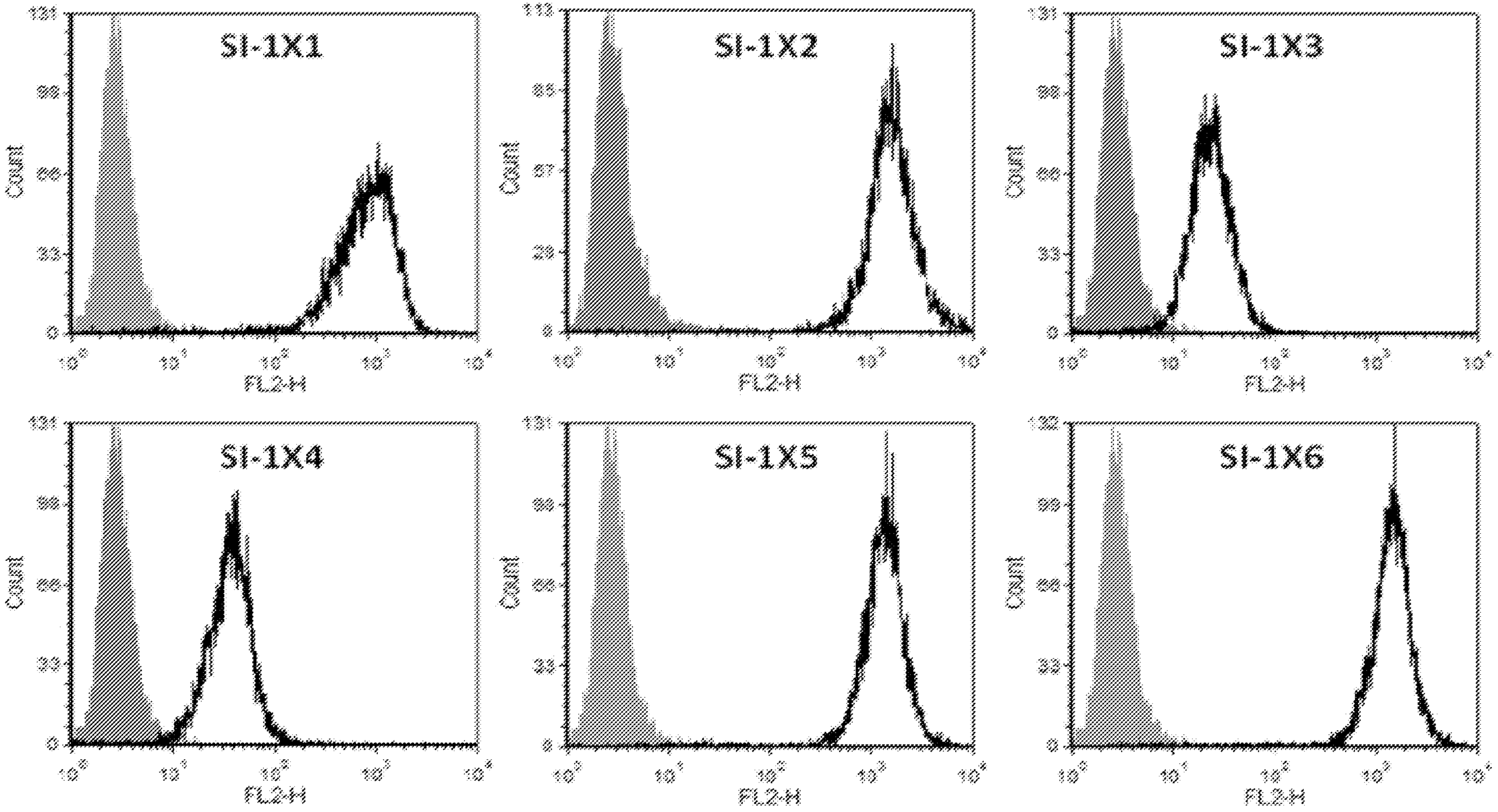


FIG. 12

PCT/US2015/066951

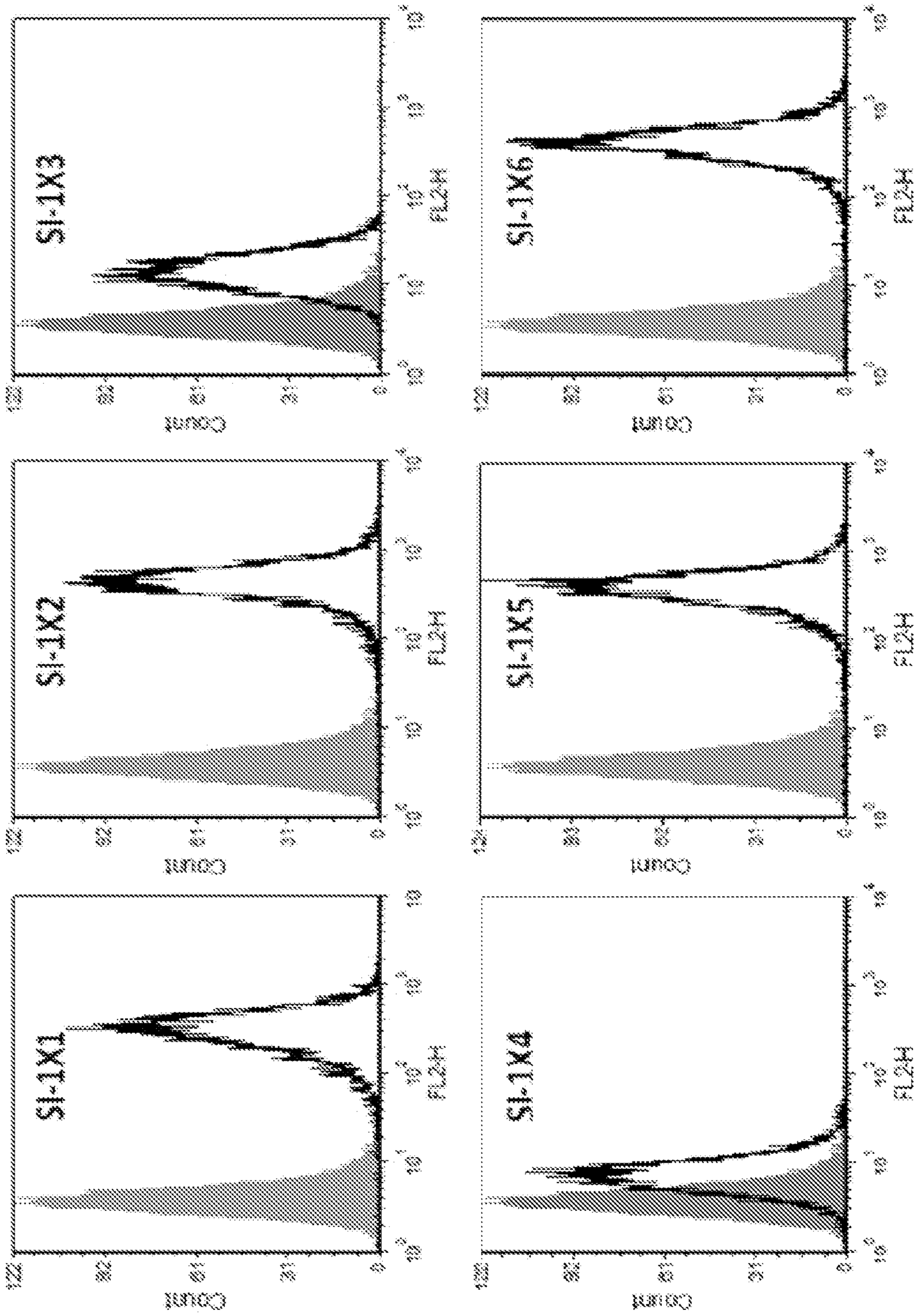
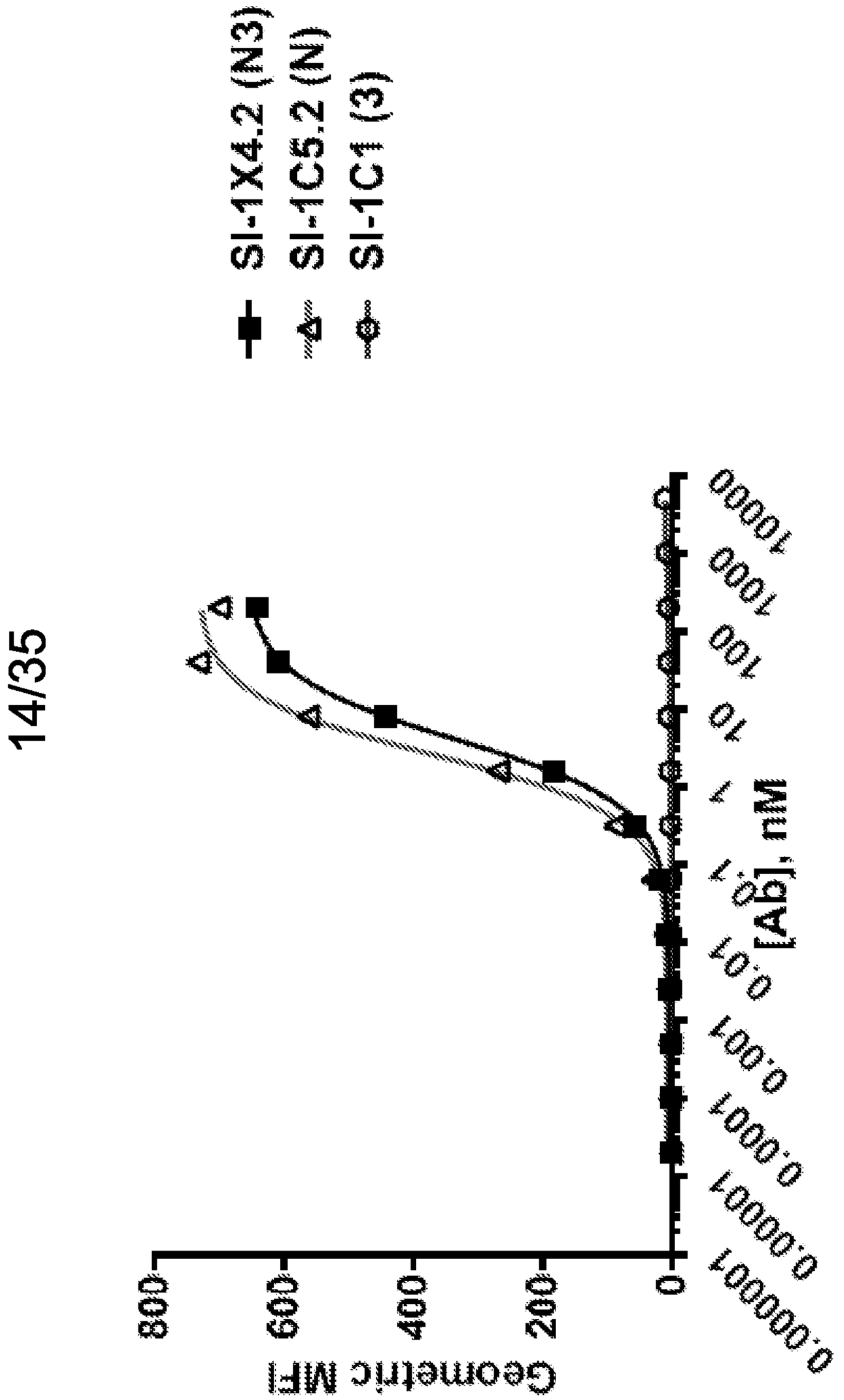

SI-1X1
SI-1X2
SI-1X3
SI-1X4
SI-1X5
SI-1X6
FL2-H
Count
grey filled histogram = isotype control

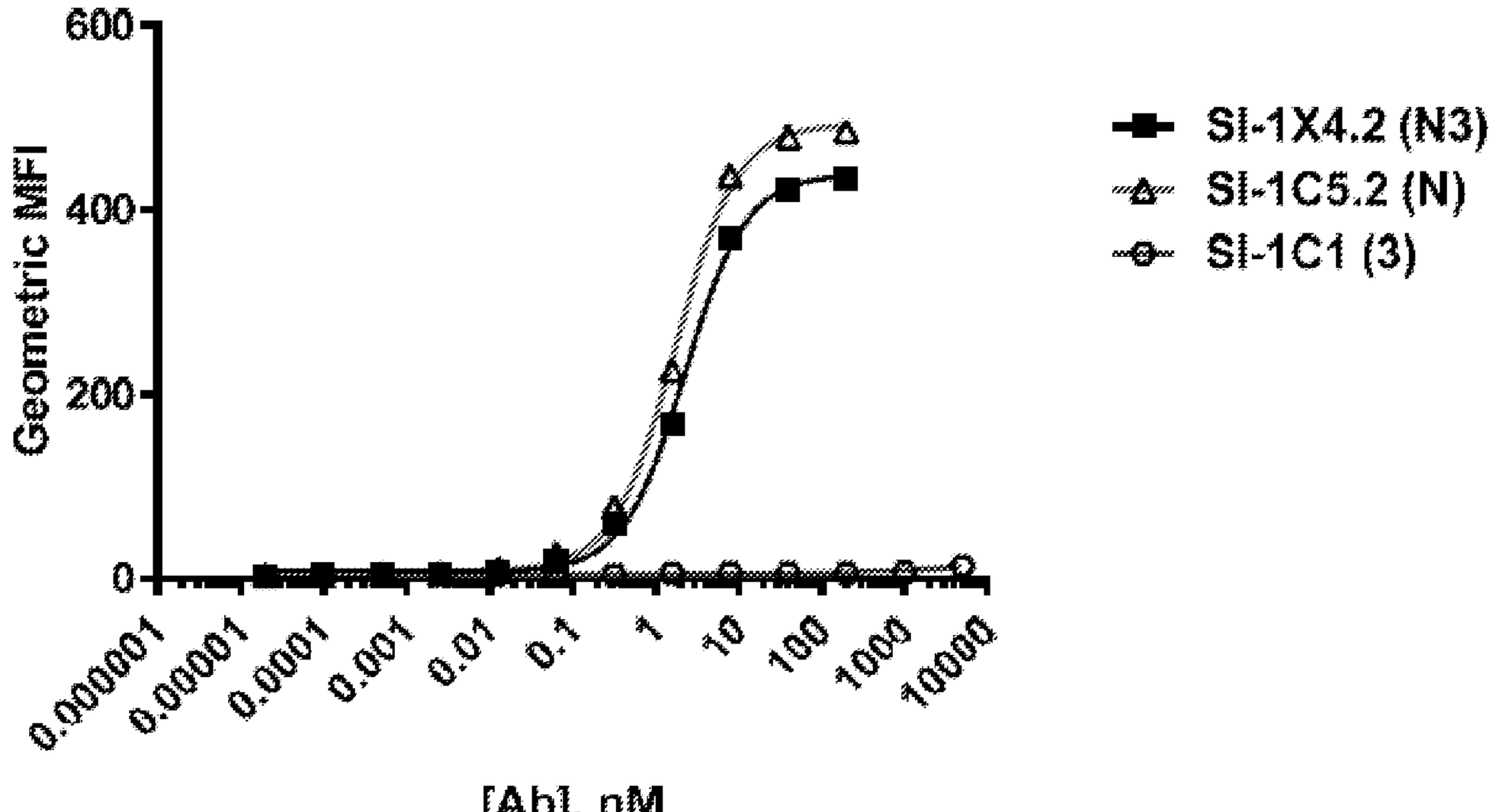
FIG. 13



Antibody	IC50 (nM)
SI-1X4.2 (N3)	4.02
SI-1C5.2 (N)	2.62
SI-1C1 (3)	N/A*

* IC50 not calculated - plateau not reached

FIG. 14



Antibody	IC50 (nM)
SI-1X4.2 (N3)	2.28
SI-1C5.2 (N)	1.75
SI-1C1 (3)	N/A*

* IC50 not calculated - plateau not reached

FIG. 15

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PCT/US2015/066951

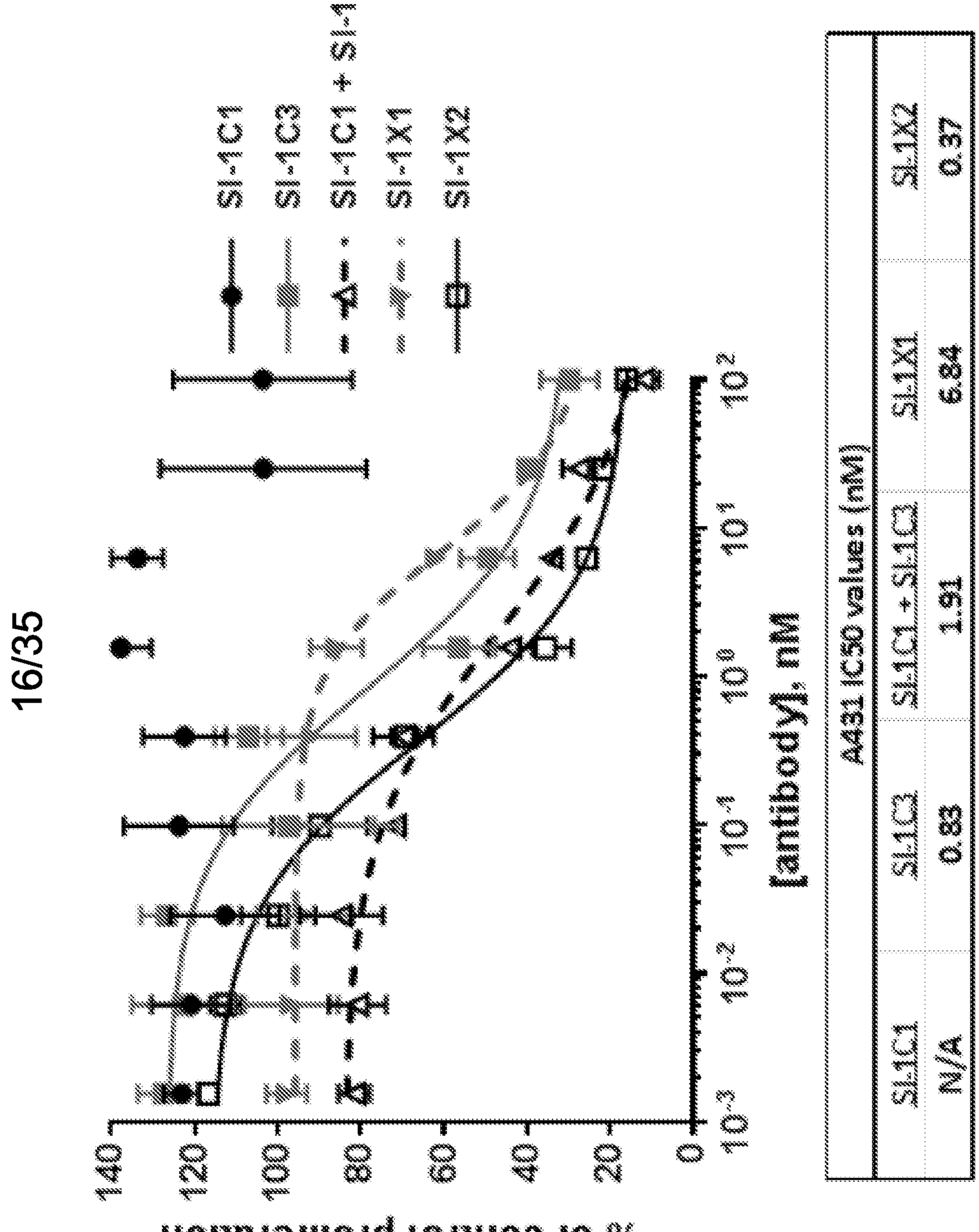

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% of control proliferation
Antibody, nM
A431 IC50 values (nM)
SL1C1
N/A
SL1C3
0.83
SL1C1 + SL1C3
1.91
SL1X1
6.84
SL1X2
0.37
SL1C1
SL1C3
SL1C1 + SL1C3
SL1X1
SL1X2

FIG. 16

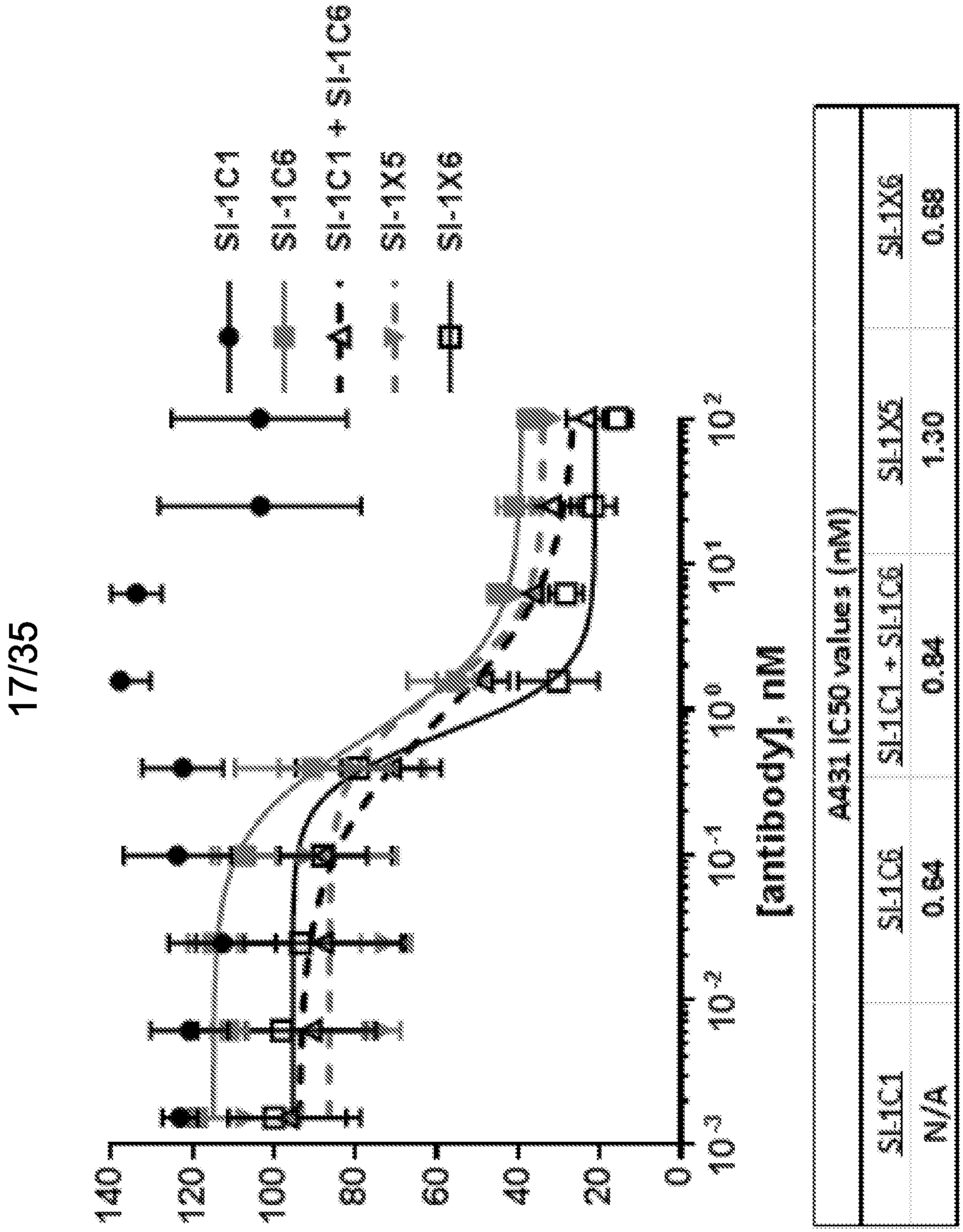
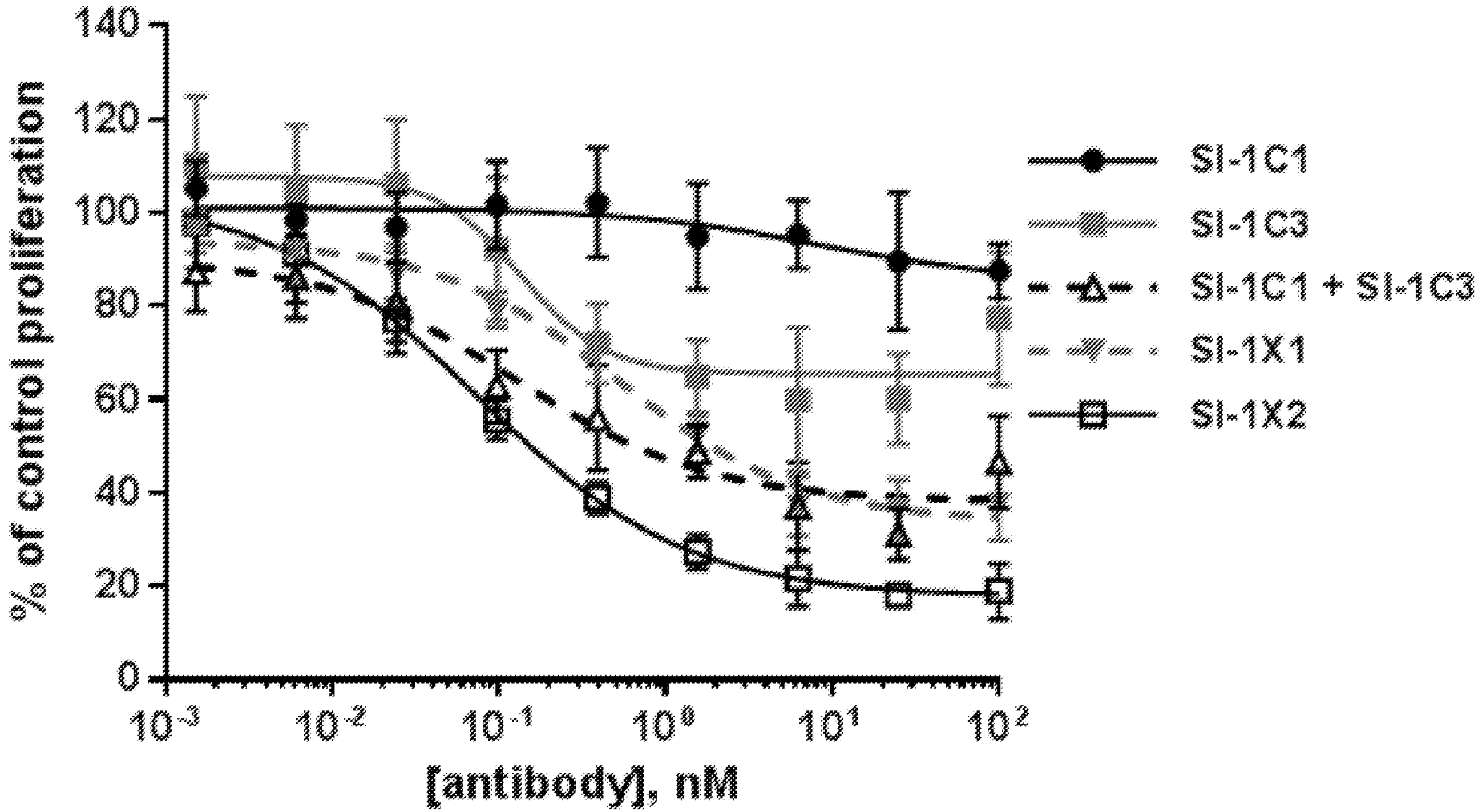
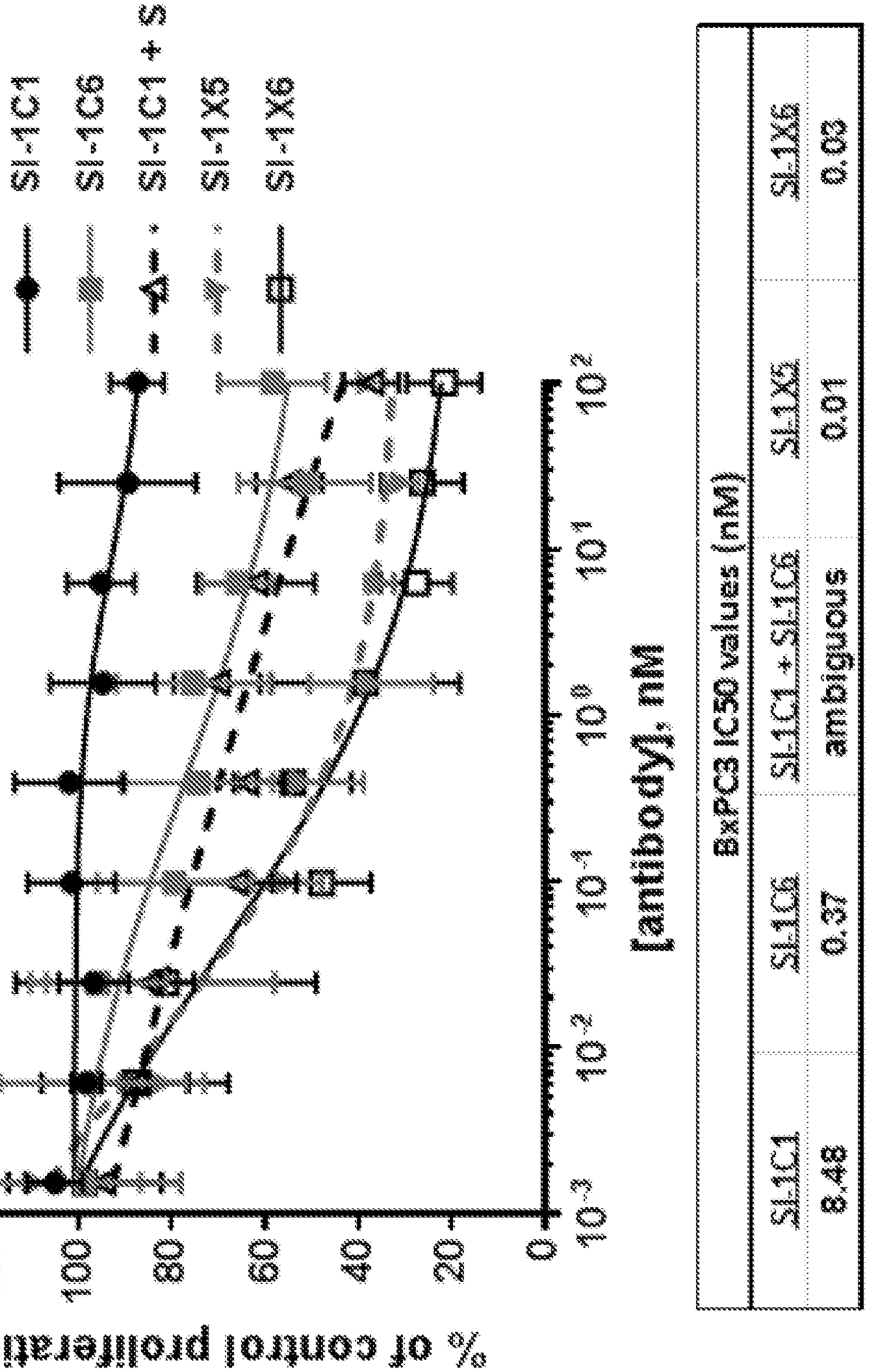

SL-1C1
SL-1C6
SL-1C1 + SL-1C6
SL-1X5
SL-1X6
% of control proliferation
140
120
100
80
60
40
20
0
10-3
10-2
10-1
100
101
102
Antibody, nM
A431 IC50 values (nM)
SL-1C1
N/A
SL-1C6
0.64
SL-1C1 + SL-1C6
0.84
SL-1X5
1.30
SL-1X6
0.68

FIG. 17



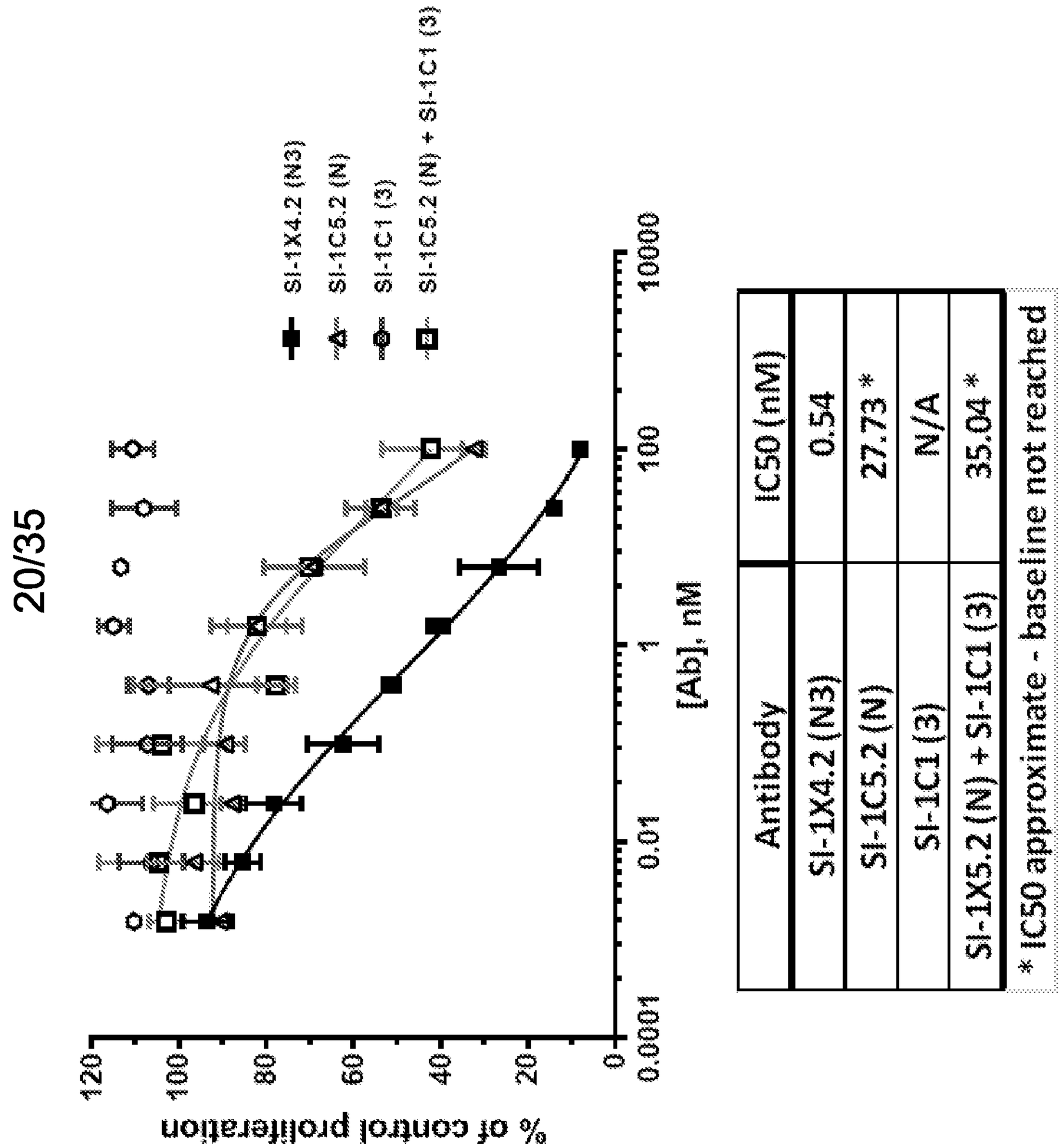
BxPC3 IC50 values (nM)				
SI-1C1	SI-1C3	SI-1C1 + SI-1C3	SI-1X1	SI-1X2
8.48	0.14	0.13	0.53	0.07

FIG. 18



BxPC3 IC50 values (nM)			
SL1C1	SL1C6	SL1C1 + SL1C6	SL1X5
8.48	0.37	ambiguous	0.01

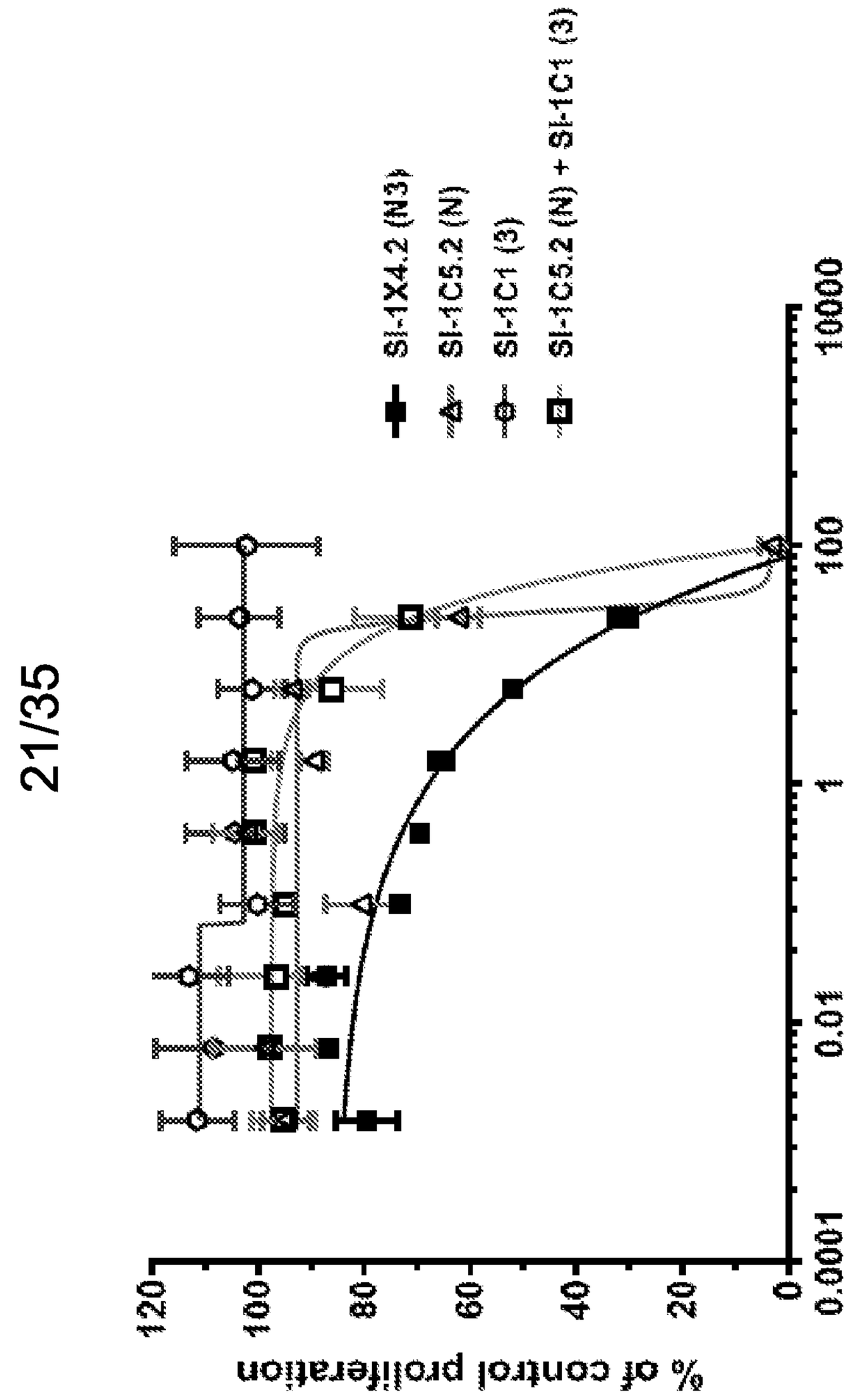
FIG. 19



Antibody	IC50 (nM)
SI-1X4.2 (N3)	0.54
SI-1C5.2 (N)	27.73 *
SI-1C1 (3)	N/A
SI-1X5.2 (N) + SI-1C1 (3)	35.04 *

* IC50 approximate - baseline not reached

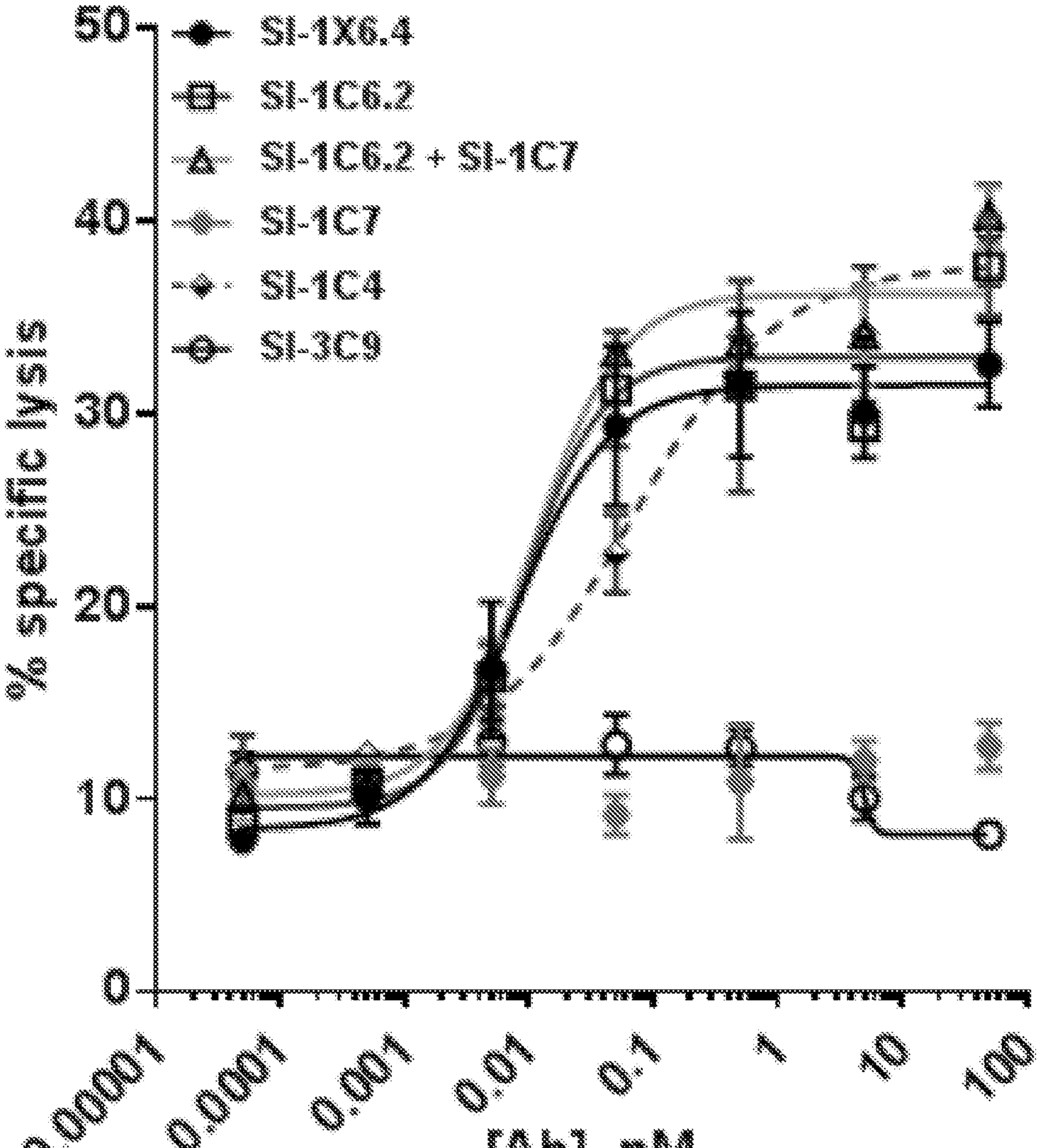
FIG. 20



Antibody	IC50 (nM)
SI-1X4.2 (N3)	no baseline
SI-1C5.2 (N)	no baseline
SI-1C1 (3)	N/A
SI-1X5.2 (N) + SI-1C1 (3)	no baseline

* IC50 approximate - baseline not reached

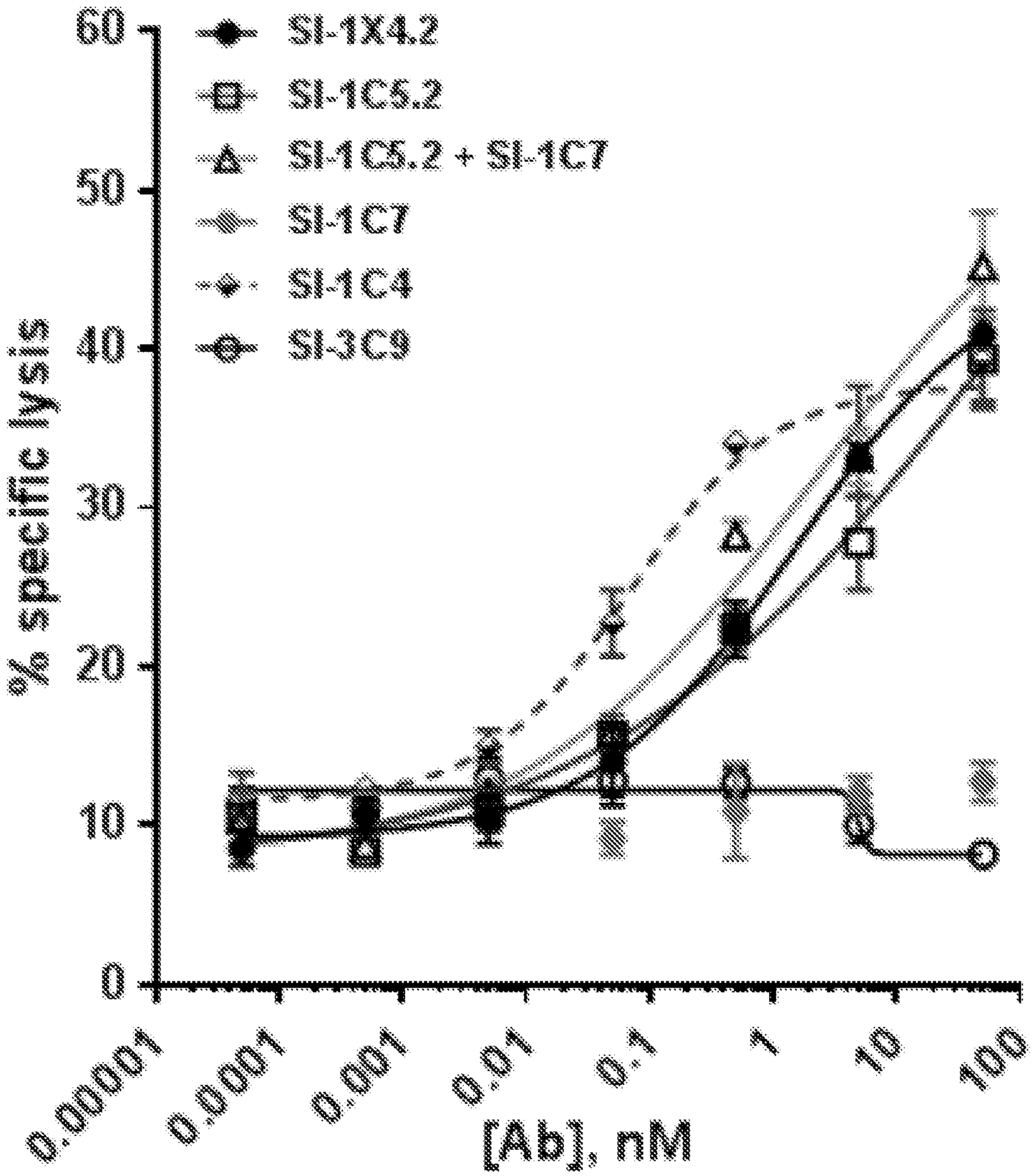
FIG. 21



Antibody	EC50 (nM)
SI-1X6.4 (C3)	0.008
SI-1C6.2 (C)	0.009
SI-1C6.2 (C) + SI-1C7 (3)	0.011
SI-1C7 (3)	N/A*
SI-1C4 (2in1)	0.068
SI-3C9 (control)	-

* EC50 not calculated - plateau not reached

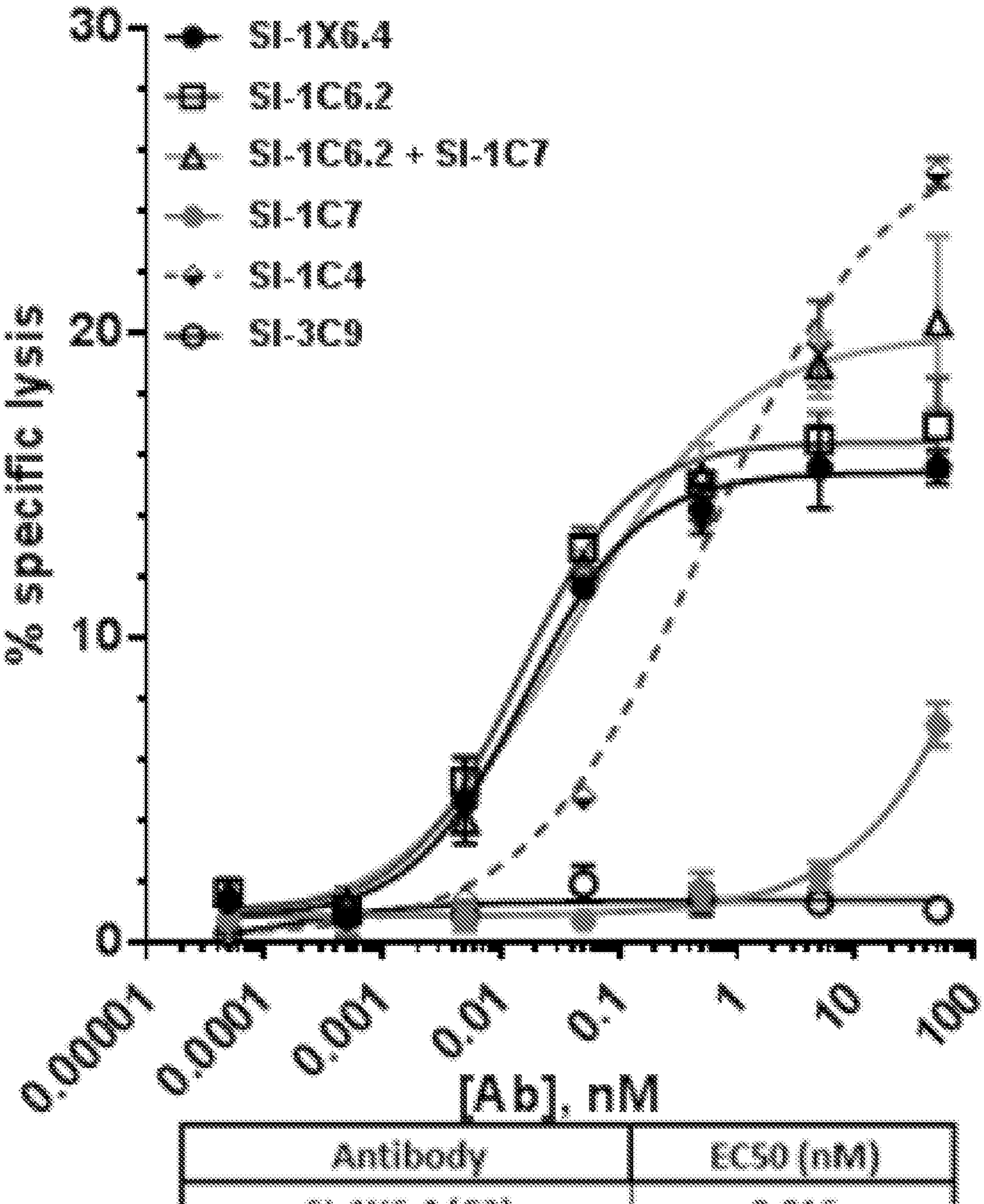
FIG. 22a



Antibody	EC50 (nM)
SI-1X4.2 (N3)	1.49
SI-1C5.2 (N)	N/A*
SI-1C5.2 (N) + SI-1C7 (3)	2.16
SI-1C7 (3)	N/A*
SI-1C4 (2in1)	0.068
SI-3C9 (control)	-

*EC50 not calculated - plateau not reached

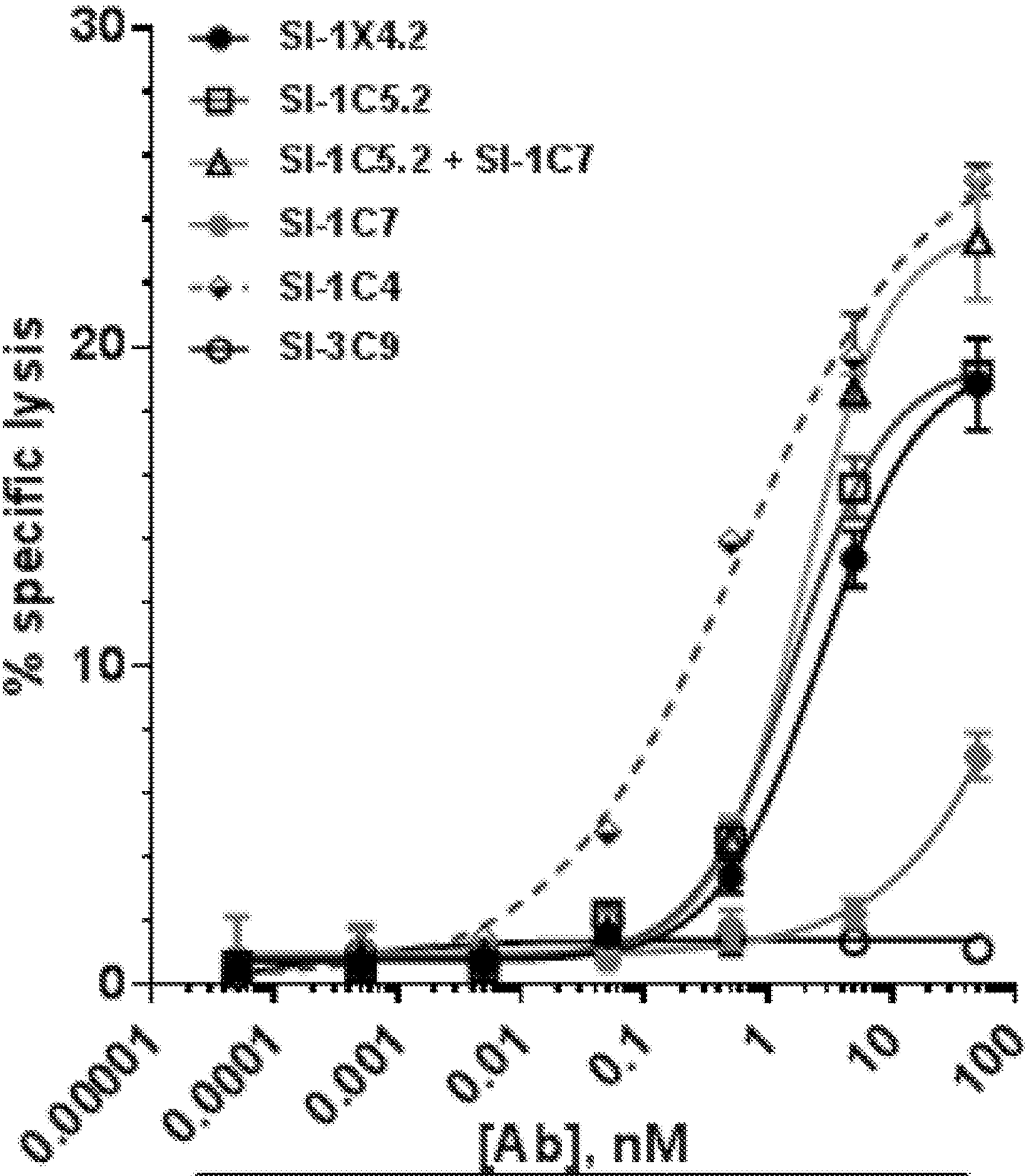
FIG. 22b



Antibody	EC50 (nM)
SI-1X6.4 (C3)	0.016
SI-1C6.2 (C)	0.014
SI-1C6.2 (C) + SI-1C7 (3)	0.039
SI-1C7 (3)	N/A*
SI-1C4 (2in1)	0.589
SI-3C9 (control)	-

* EC50 not calculated - plateau not reached

FIG. 23a



Antibody	EC50 (nM)
SI-1X4.2 (N3)	2.62
SI-1C5.2 (N)	1.63
SI-1C5.2 (N) + SI-1C7 (3)	1.87
SI-1C7 (3)	N/A*
SI-1C4 (2in1)	0.589
SI-3C9 (control)	∞

*EC50 not calculated - plateau not reached

FIG. 23b

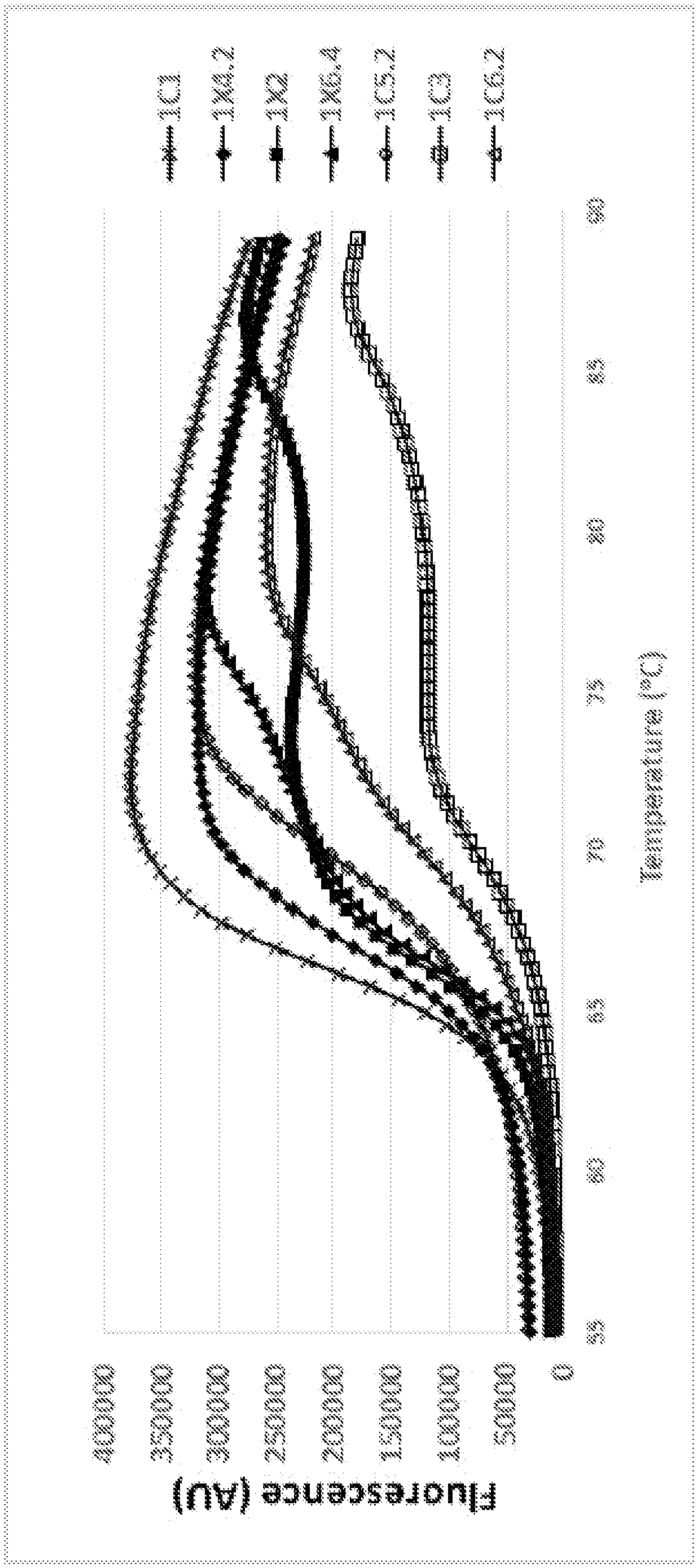
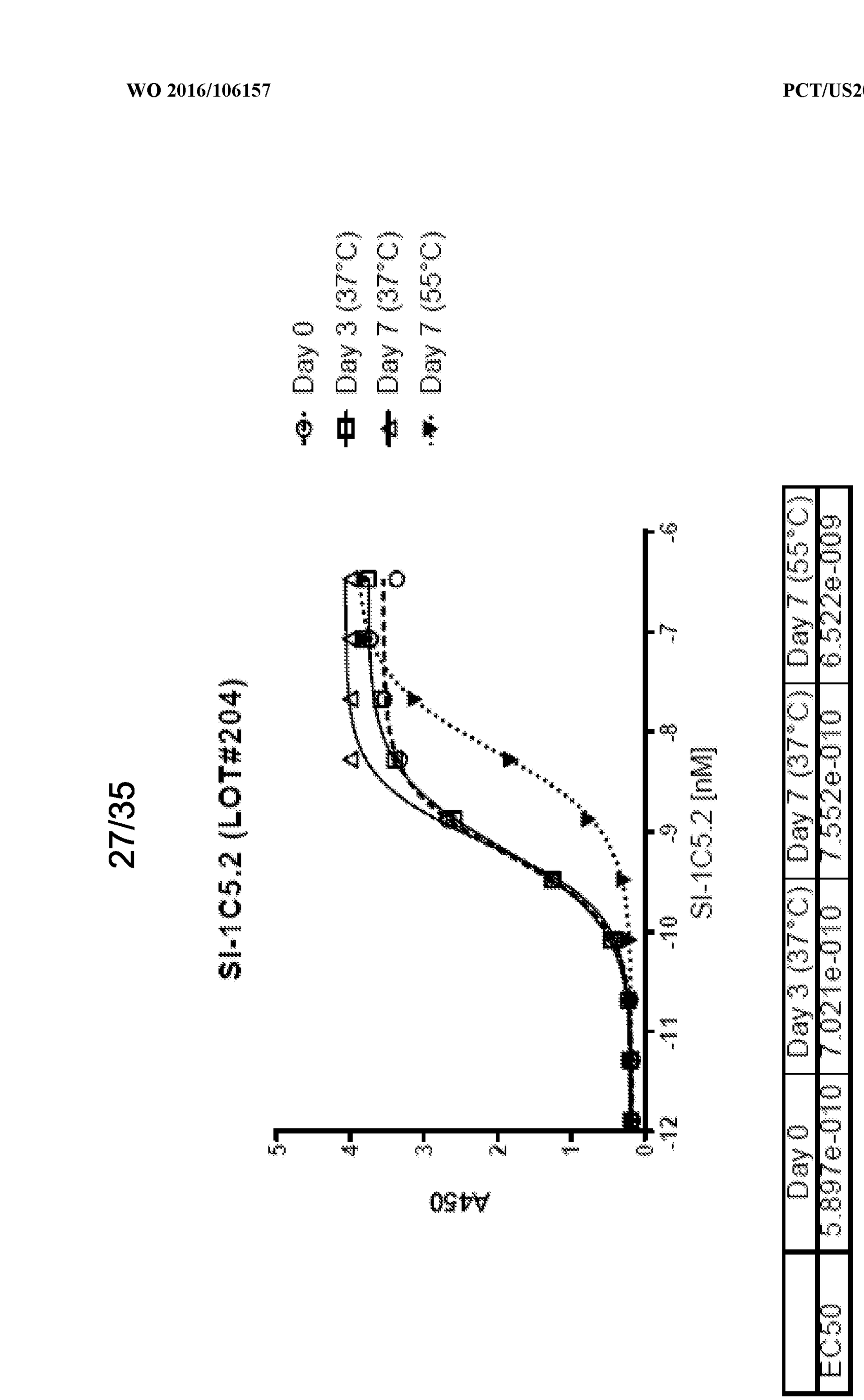
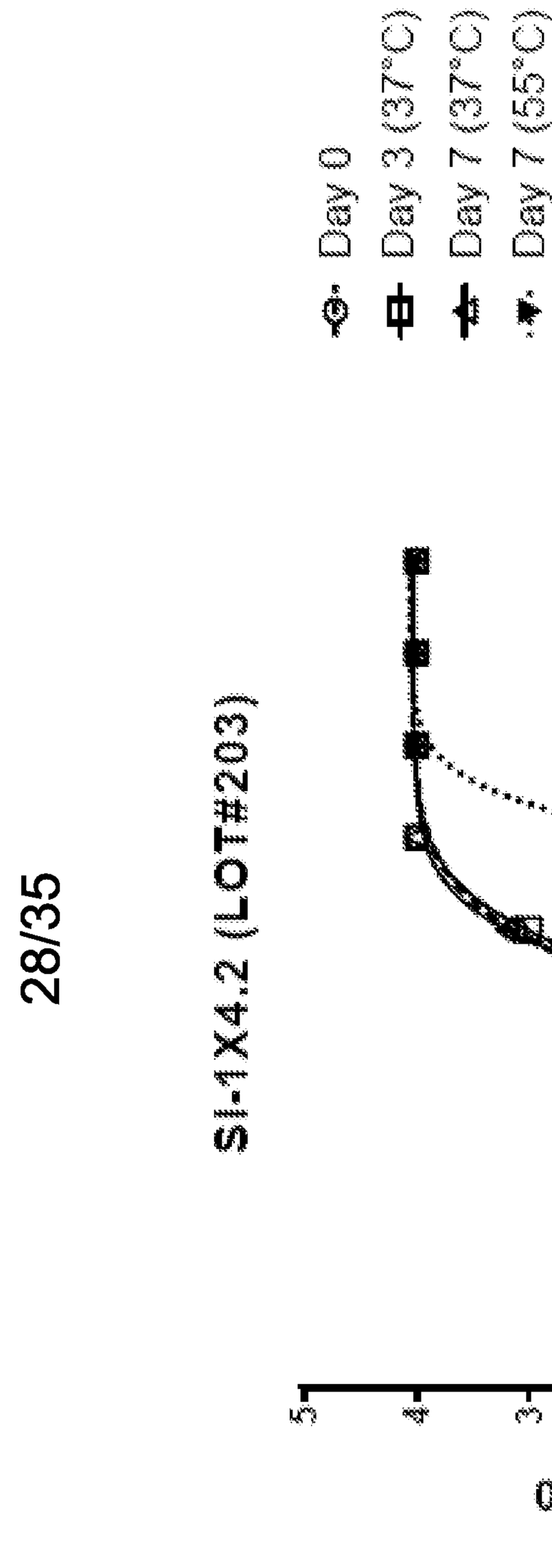

1G1
1X4.2
1X2
1X6.4
1C5.2
1C3
1C6.2
80
75
70
65
60
55
Temperature (°C)
400000
350000
300000
250000
200000
150000
100000
50000
0
Fluorescence (AU)

FIG. 24



	Day 0	Day 3 (37°C)	Day 7 (37°C)	Day 7 (55°C)
EC50	5.897e-010	7.021e-010	7.552e-010	6.522e-009

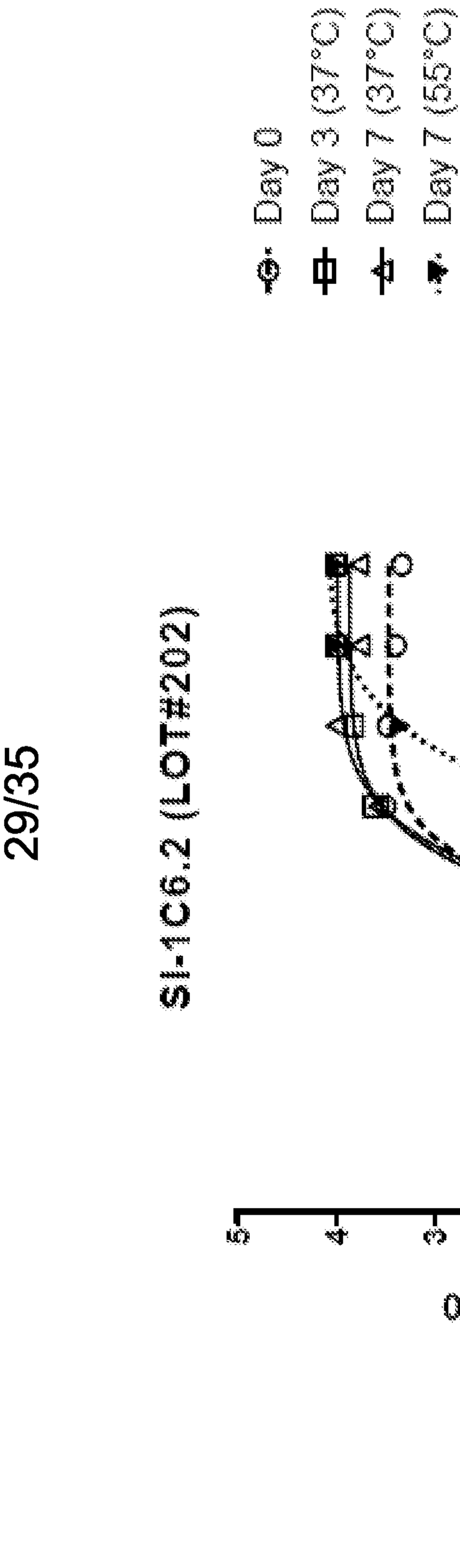
FIG. 25a



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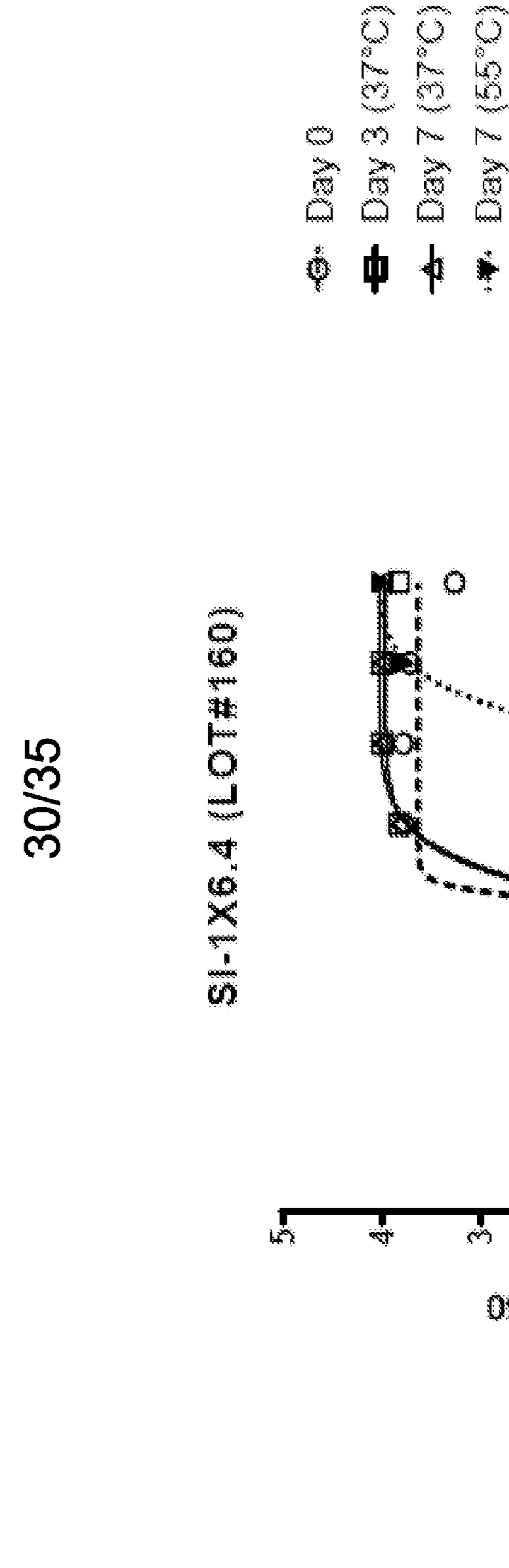
	Day 0	Day 3 (37°C)	Day 7 (37°C)	Day 7 (55°C)
4.293e-010	5.089e-010	4.667e-010	4.248e-009	

FIG. 25b



	Day 0	Day 3 (37°C)	Day 7 (37°C)	Day 7 (55°C)
EC50	2.182e-010	2.651e-010	2.266e-010	1.322e-009

FIG. 25C



	Day 0	Day 3 (37°C)	Day 7 (37°C)	Day 7 (55°C)
EC50	2.093e-010	2.300e-010	2.373e-010	4.112e-009

FIG. 25d

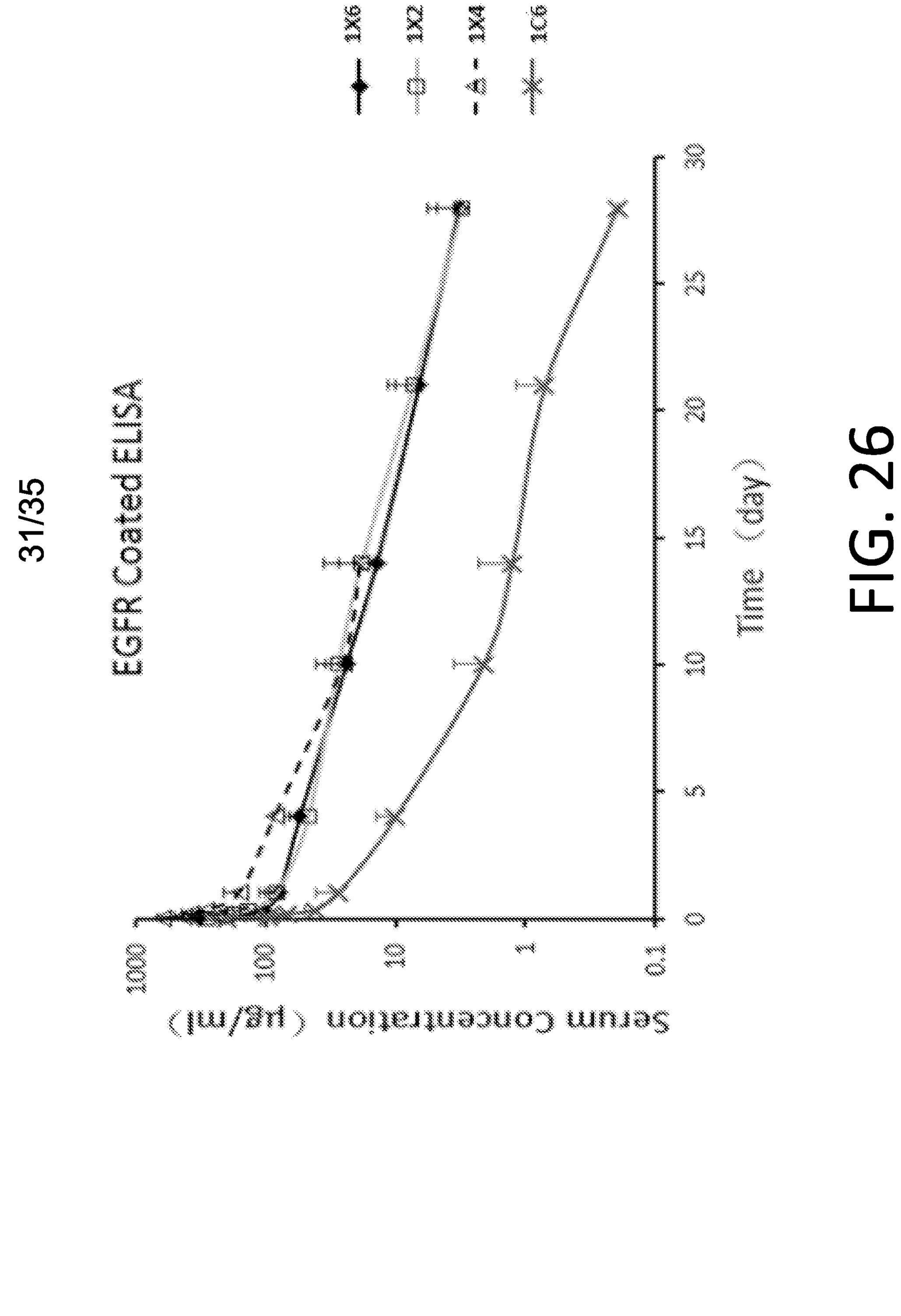

1x6
1x2
1x4
1C6
EGFR Coated ELISA
31/35
Time (day)
0
5
10
15
20
25
30
Serum Concentration (μg/ml)
0
2
4
6
8
10
12

FIG. 26

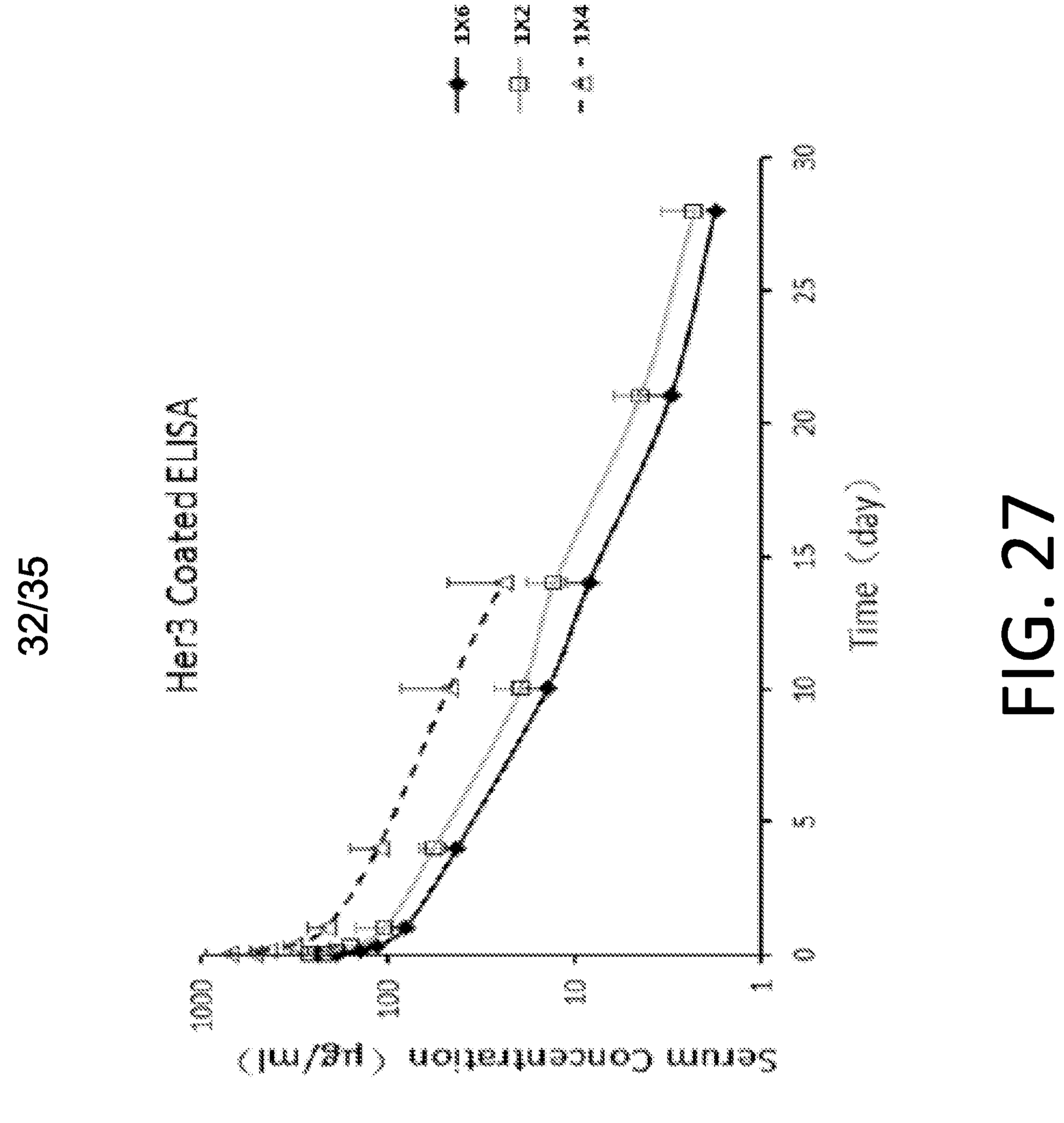

1X6
1X2
1X4
Her3 Coated ELISA
Serum Concentration (μg/ml)
1000
100
10
1
0
5
10
15
20
25
30
Time (day)

FIG. 27

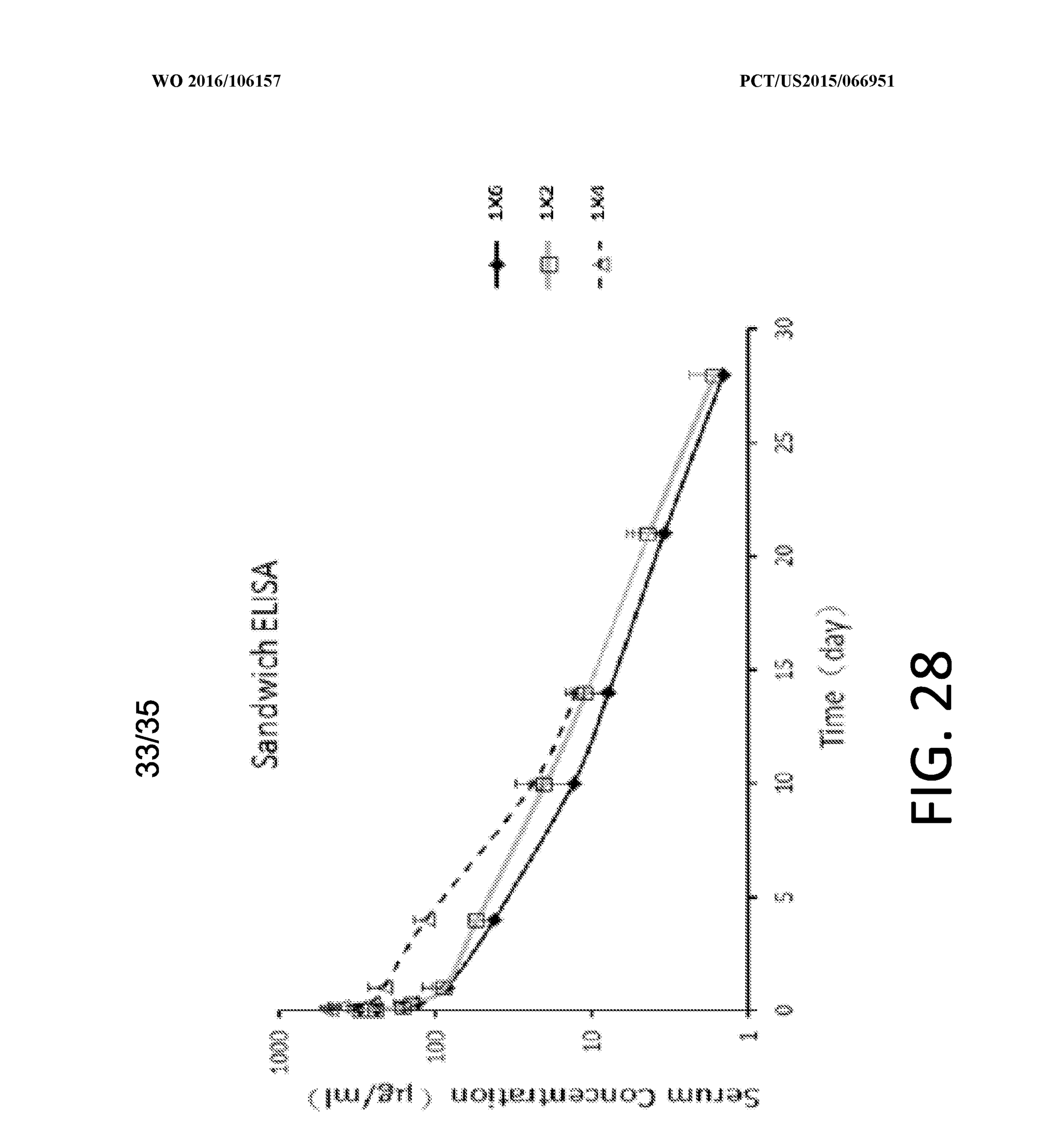

1x6
1x2
1x1
Sandwich ELISA
Serum Concentration (μg/ml)
Time (day)
0
5
10
15
20
25
30
1e-1
1e0
1e1
1e2

FIG. 28

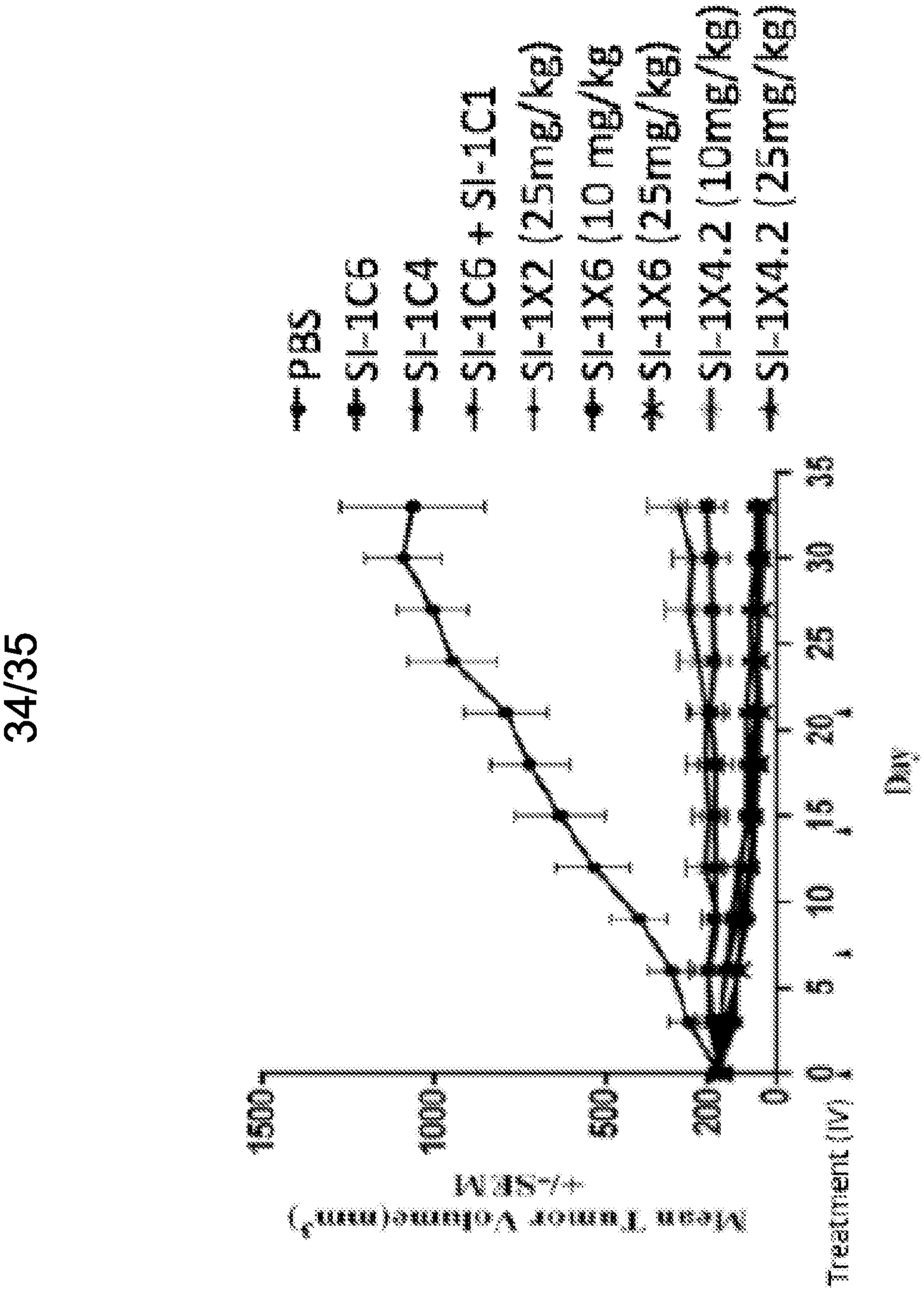

Mean Tumor Volume(mm³)
+/-SEM
Treatment
Day
pBS
SI-1C6
SI-1C4
SI-1C5
SI-1X2
SI-1X6
SI-1X6
SI-1X4.
SI-1X4.
1600
1000
600
200
0
0
5
10
15
20
25
30
35

FIG. 29

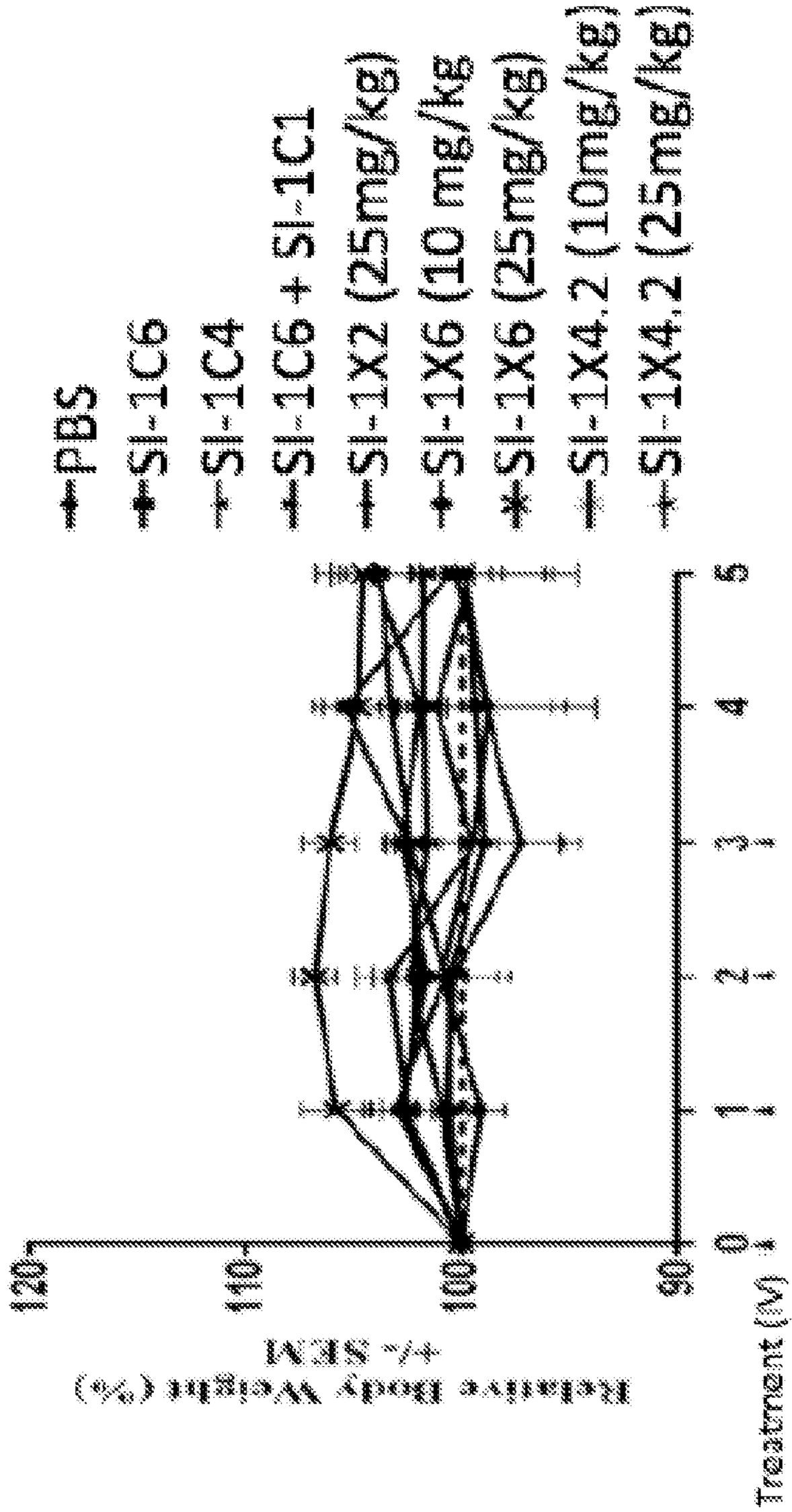

PBS
SI-1C6
SI-1C4
SI-1C6
SI-1X2
SI-1X6
SI-1X6
SI-1X4.
SI-1X4.
SI-1C1 + (25mg/kg)
(10 mg/kg
(25mg/kg)
2 (10mg/kg)
2 (25mg/kg)
Relative Body Weight (%)
+/- SEM
120
110
100
90
0
1
2
3
4
5
6
Weeks

FIG. 30