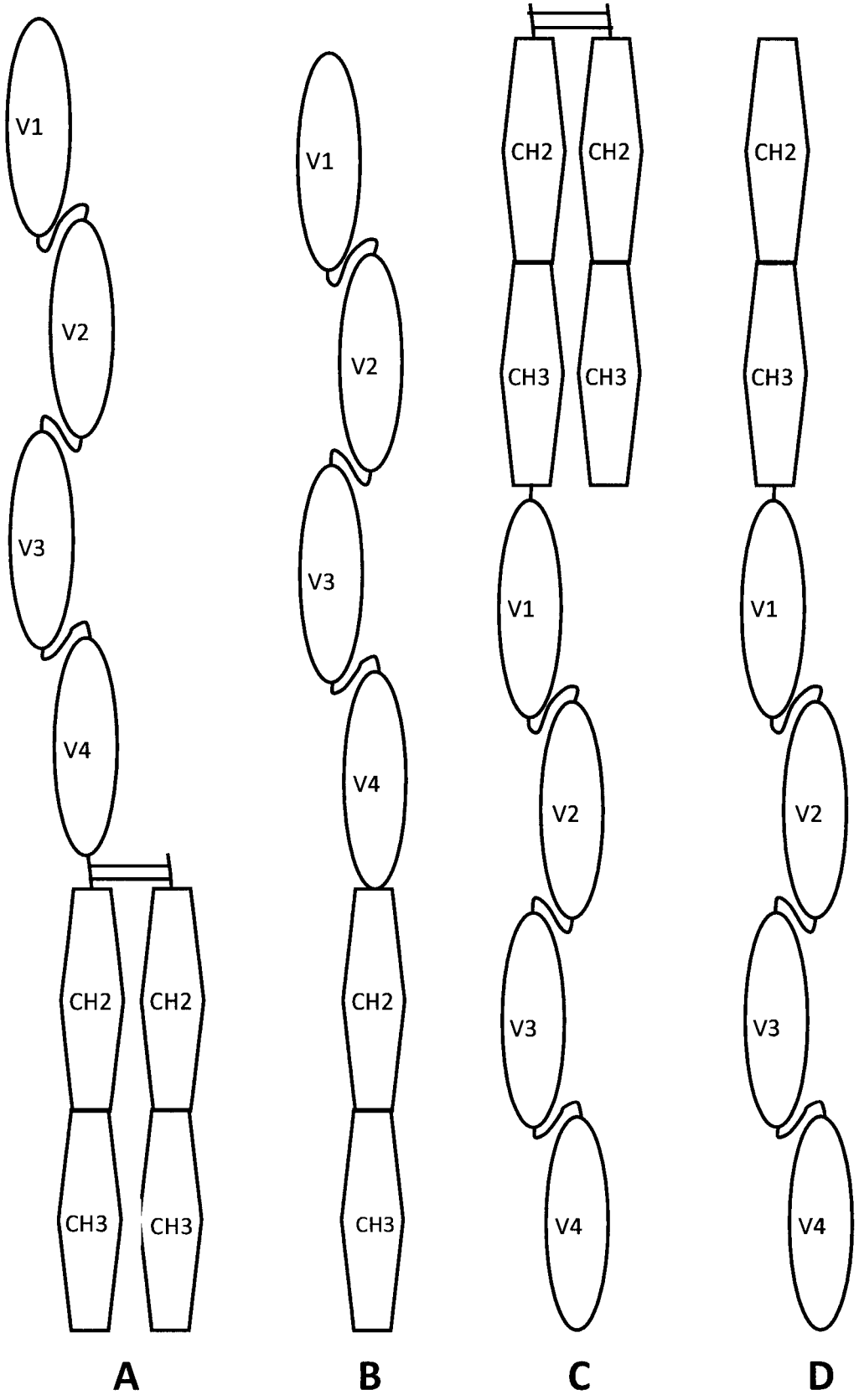

V1
V2
V3
V4
CH2
CH2
CH3
CH3
A
V1
V2
V3
V4
CH2
CH3
B
CH2
CH2
CH3
CH3
V1
V2
V3
V4
C
CH2
CH3
V1
V2
V3
V4
D

Figure 1

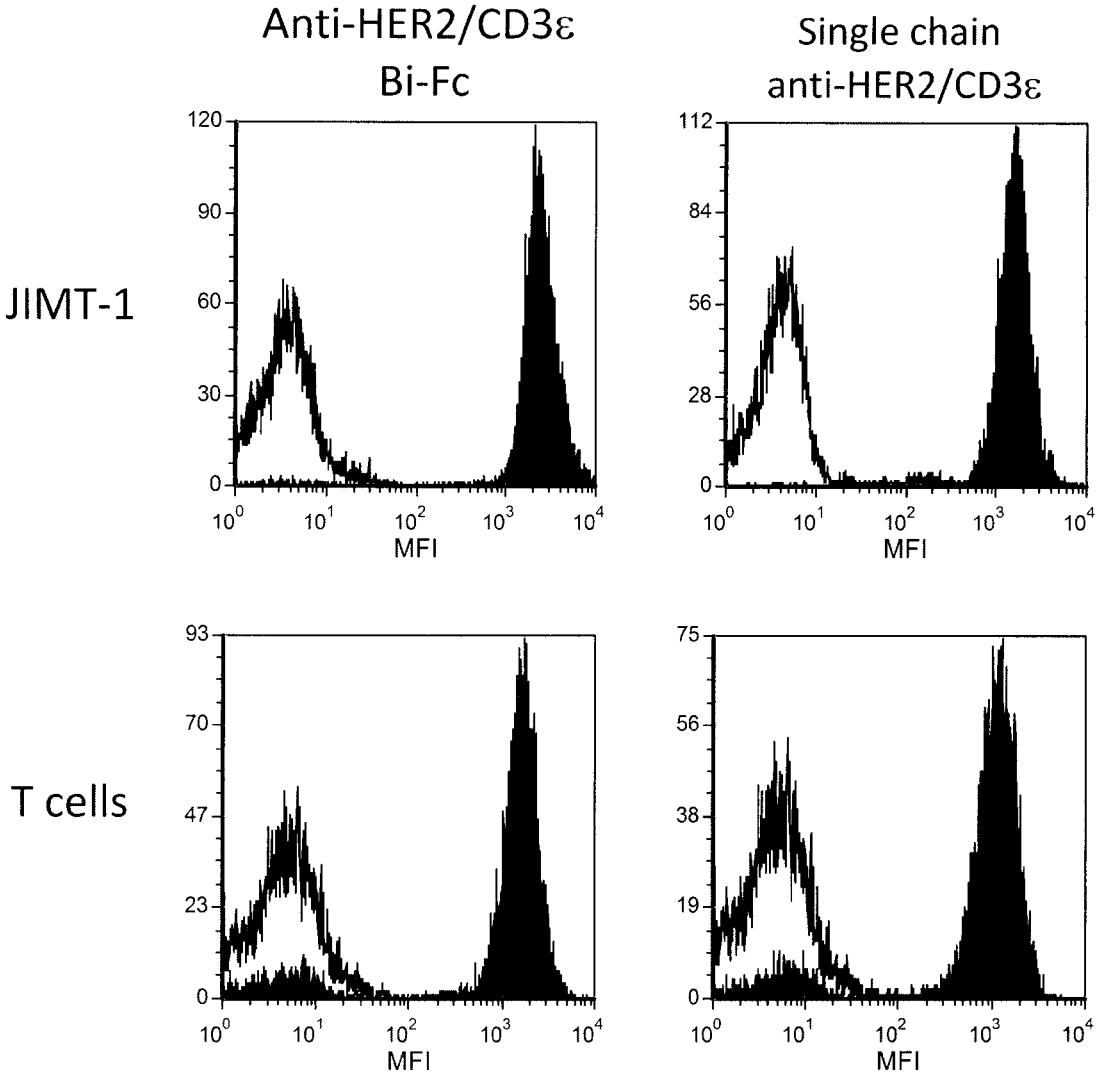

Anti-HER2/CD3ε
Bi-Fc
Single chain
anti-HER2/CD3ε
JIMT-1
T cells
MFI
MFI
MFI
MFI

Figure 2

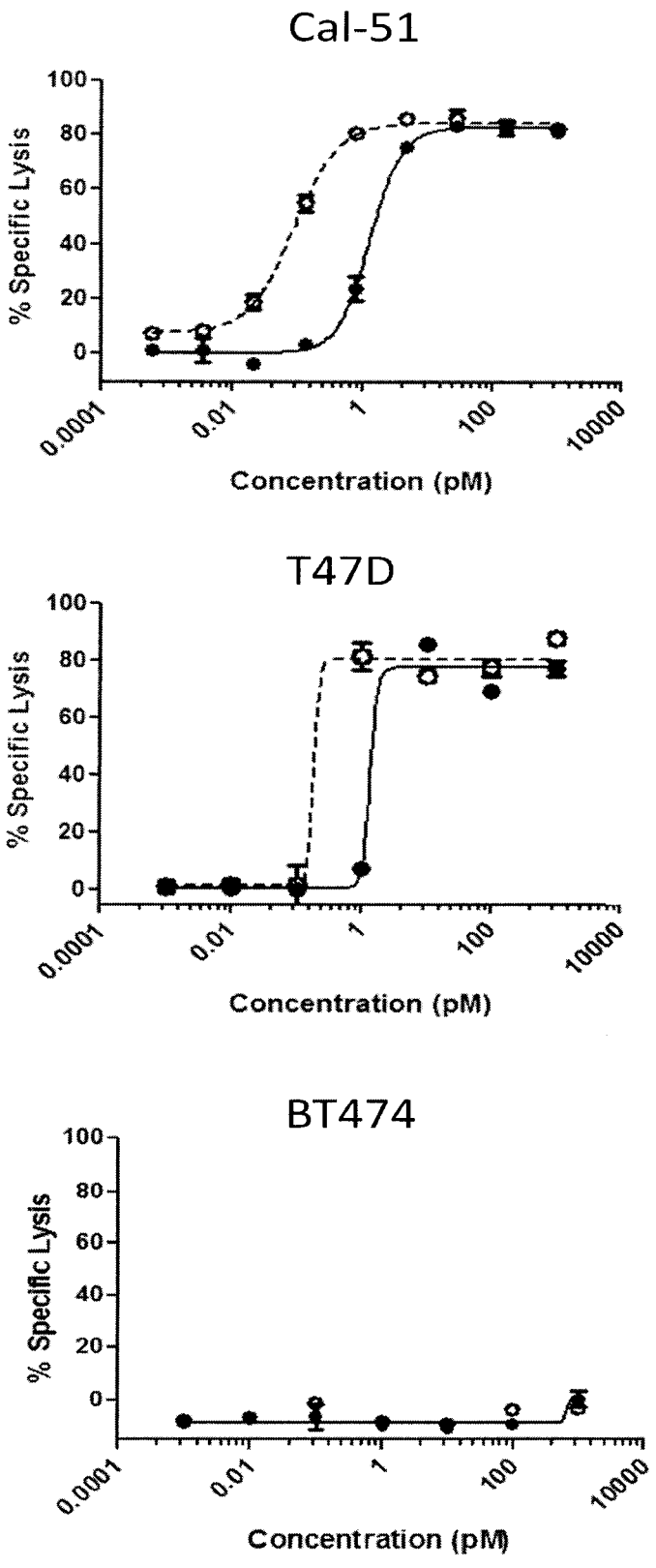

Cal-51
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)
T47D
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)
BT474
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 3

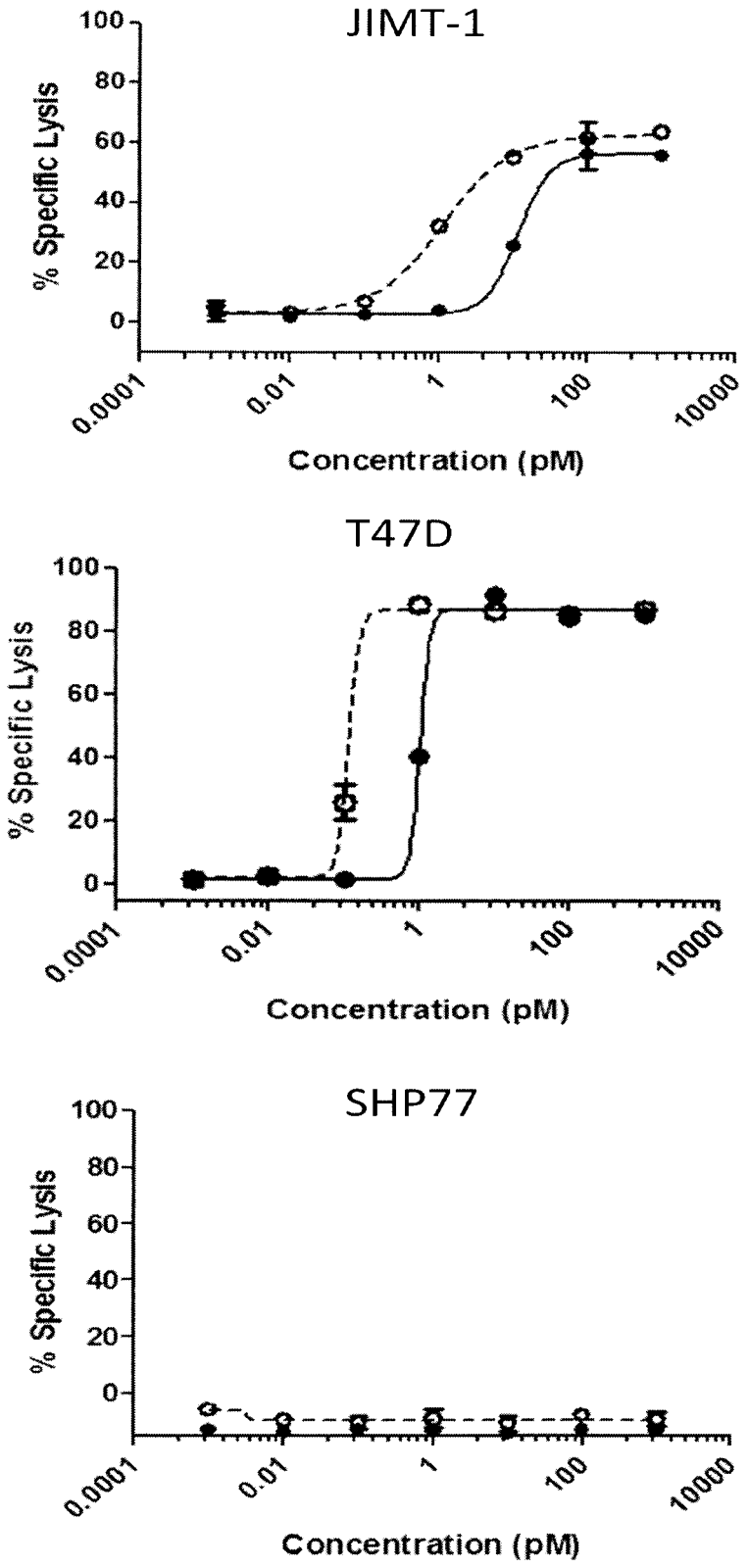

JIMT-1
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)
T47D
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)
SHP77
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 4

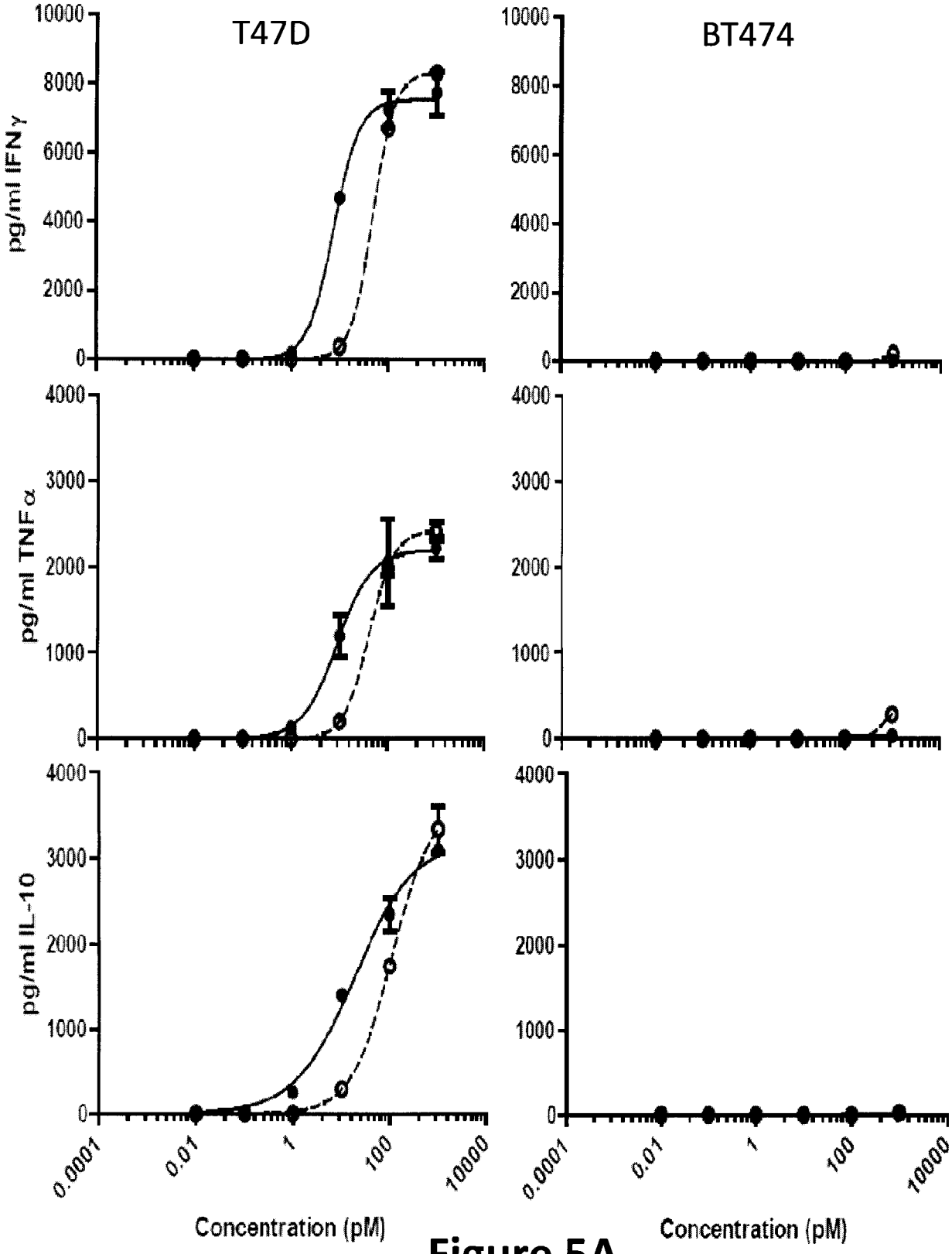

T47D
BT474
pg/ml IFNγ
pg/ml TNFα
pg/ml IL-10
10000
8000
6000
4000
2000
0
4000
3000
2000
1000
0
4000
3000
2000
1000
0
0.0001
0.01
1
100
10000
Concentration (pM)
Concentration (pM)

Figure 5A

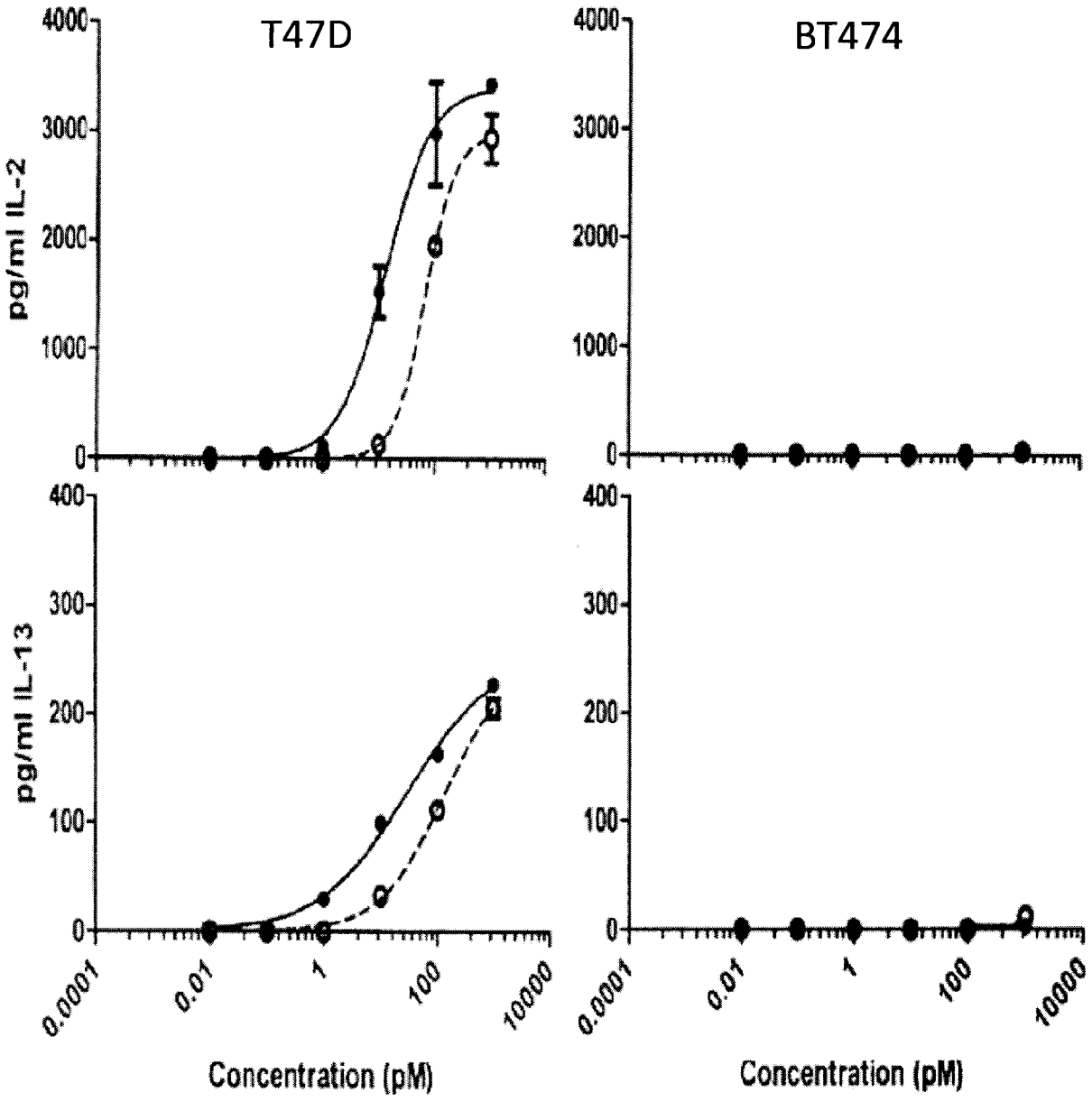

T47D
BT474
pg/ml IL-2
pg/ml IL-13
4000
3000
2000
1000
0
400
300
200
100
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 5B

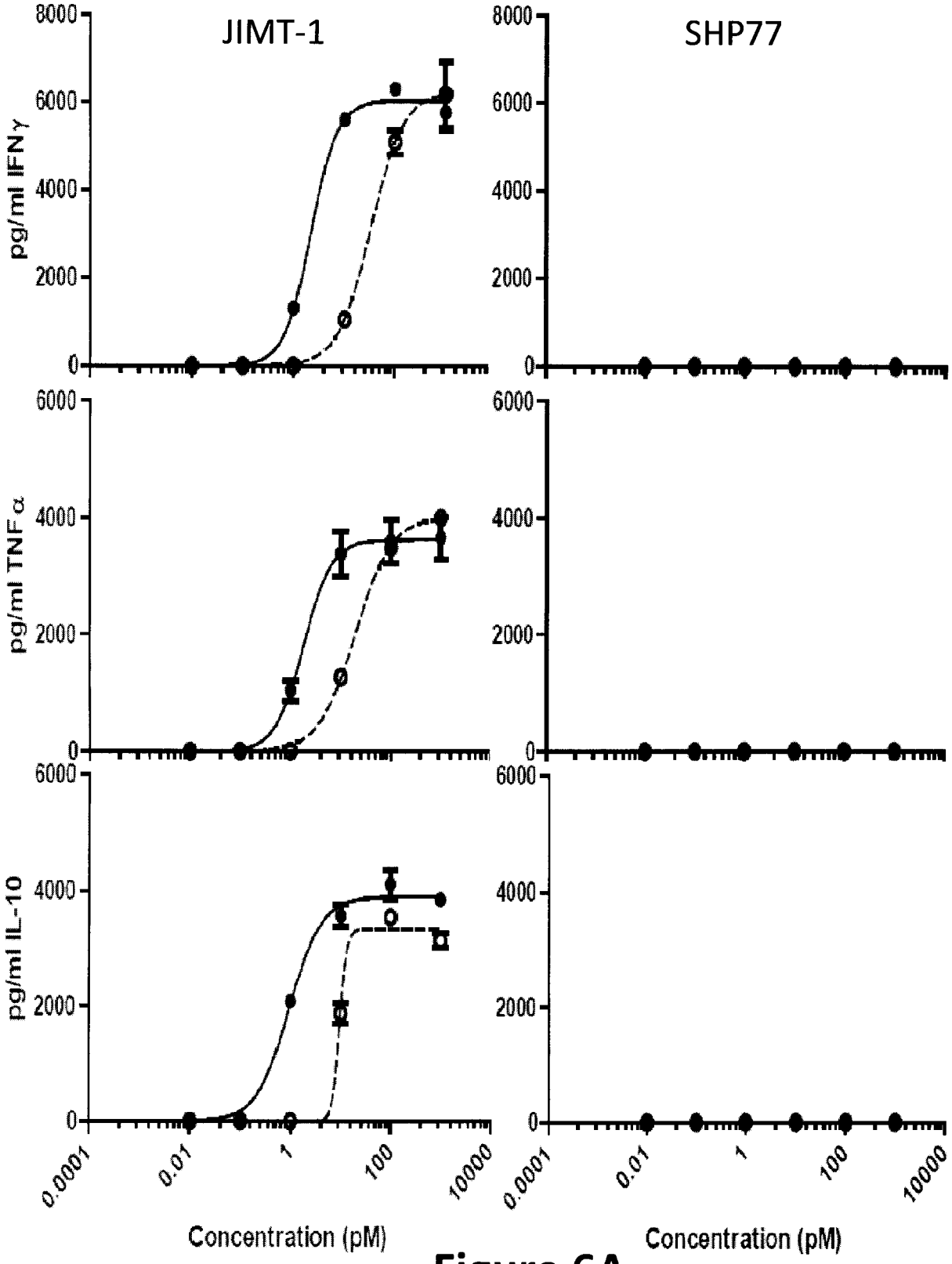

JIMT-1
SHP77
pg/ml IFNγ
pg/ml TNFα
pg/ml IL-10
8000
6000
4000
2000
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 6A

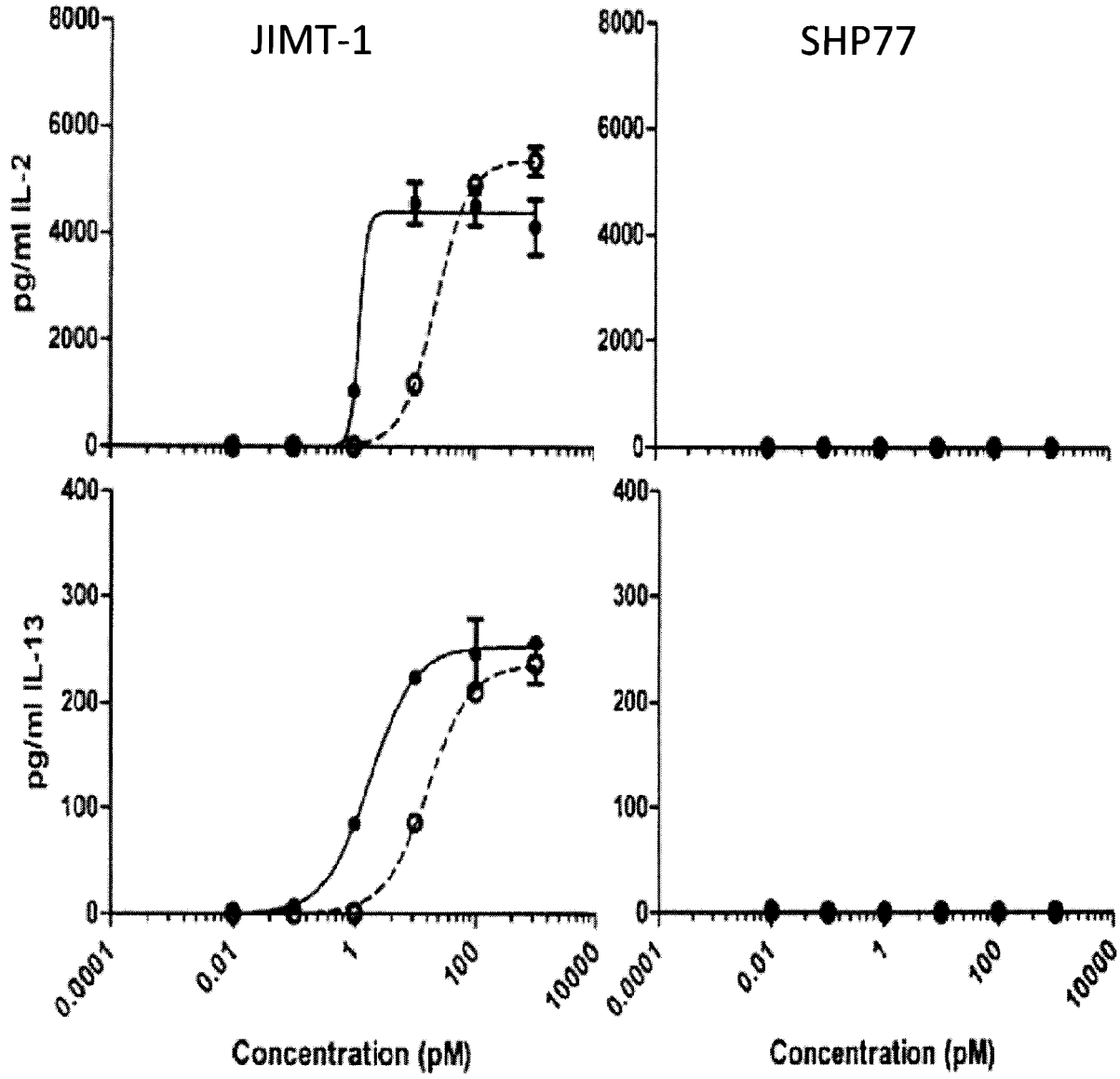

JIMT-1
SHP77
pg/ml IL-2
pg/ml IL-13
8000
6000
4000
2000
0
400
300
200
100
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 6B

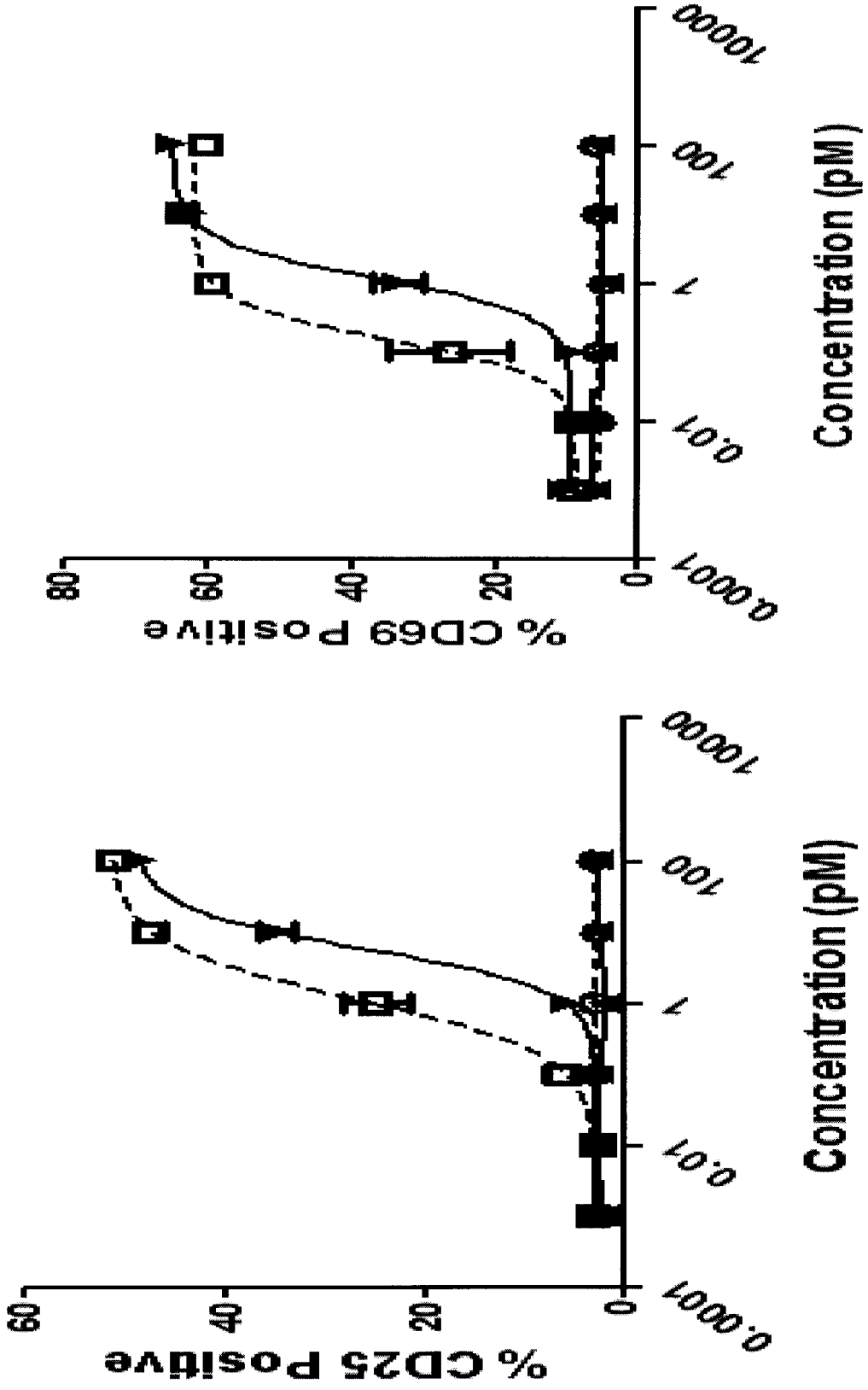
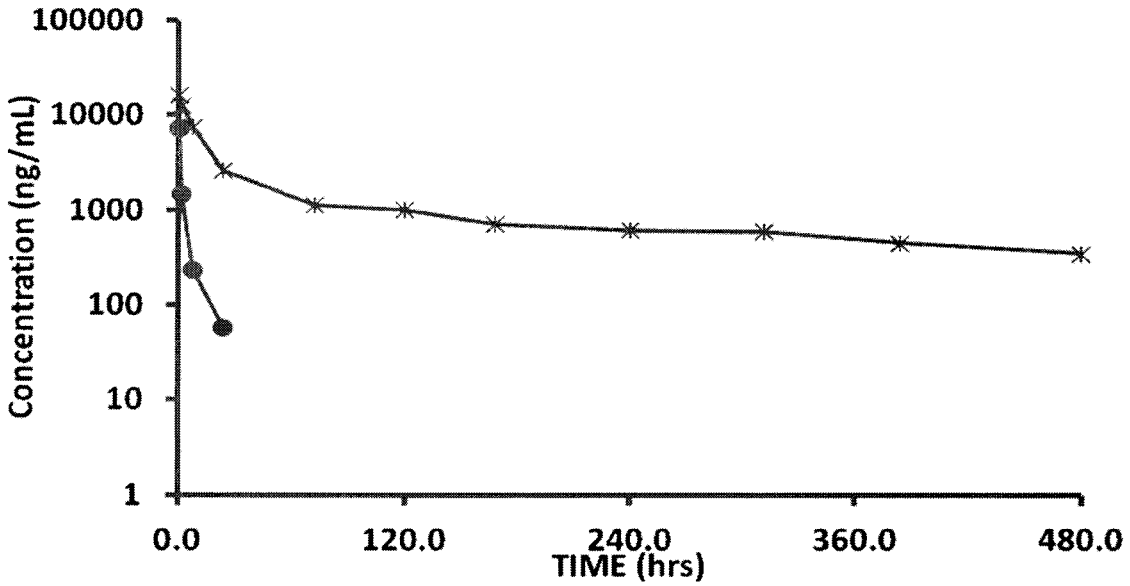

% CD69 Positive
0
20
40
60
80
0.0001
0.01
1
100
10000
Concentration (pM)
% CD25 Positive
0
20
40
60
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 7


100000
10000
1000
100
10
1
Concentration (ng/mL)
0.0
120.0
240.0
360.0
480.0
TIME (hrs)

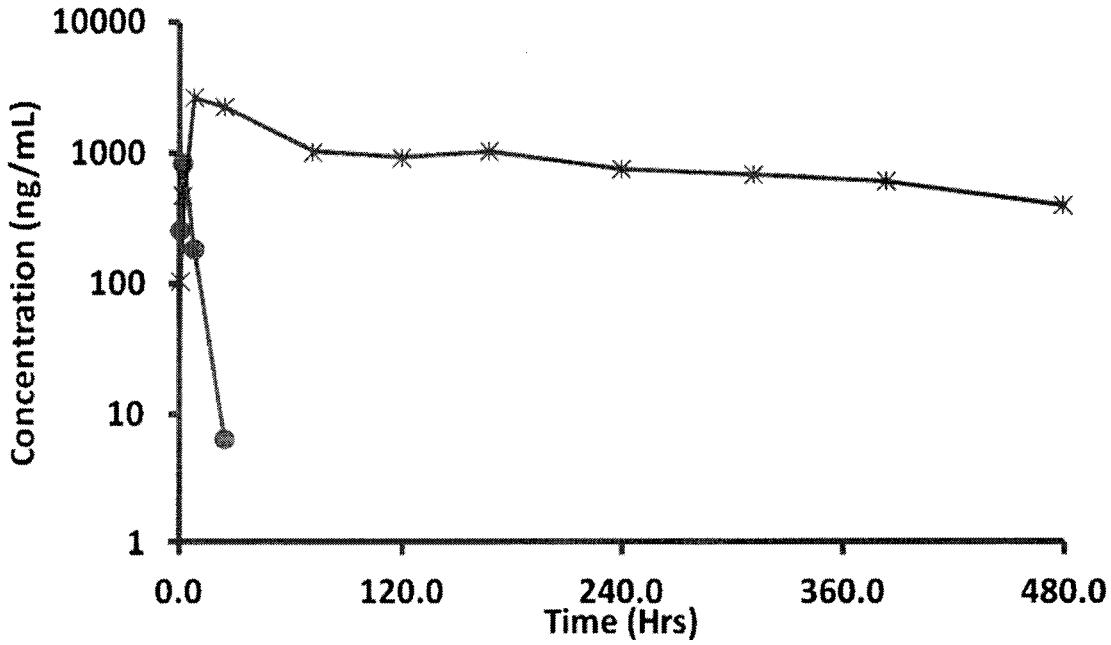

10000
1000
100
10
1
Concentration (ng/mL)
0.0
120.0
240.0
360.0
480.0
Time (Hrs)

Figure 8

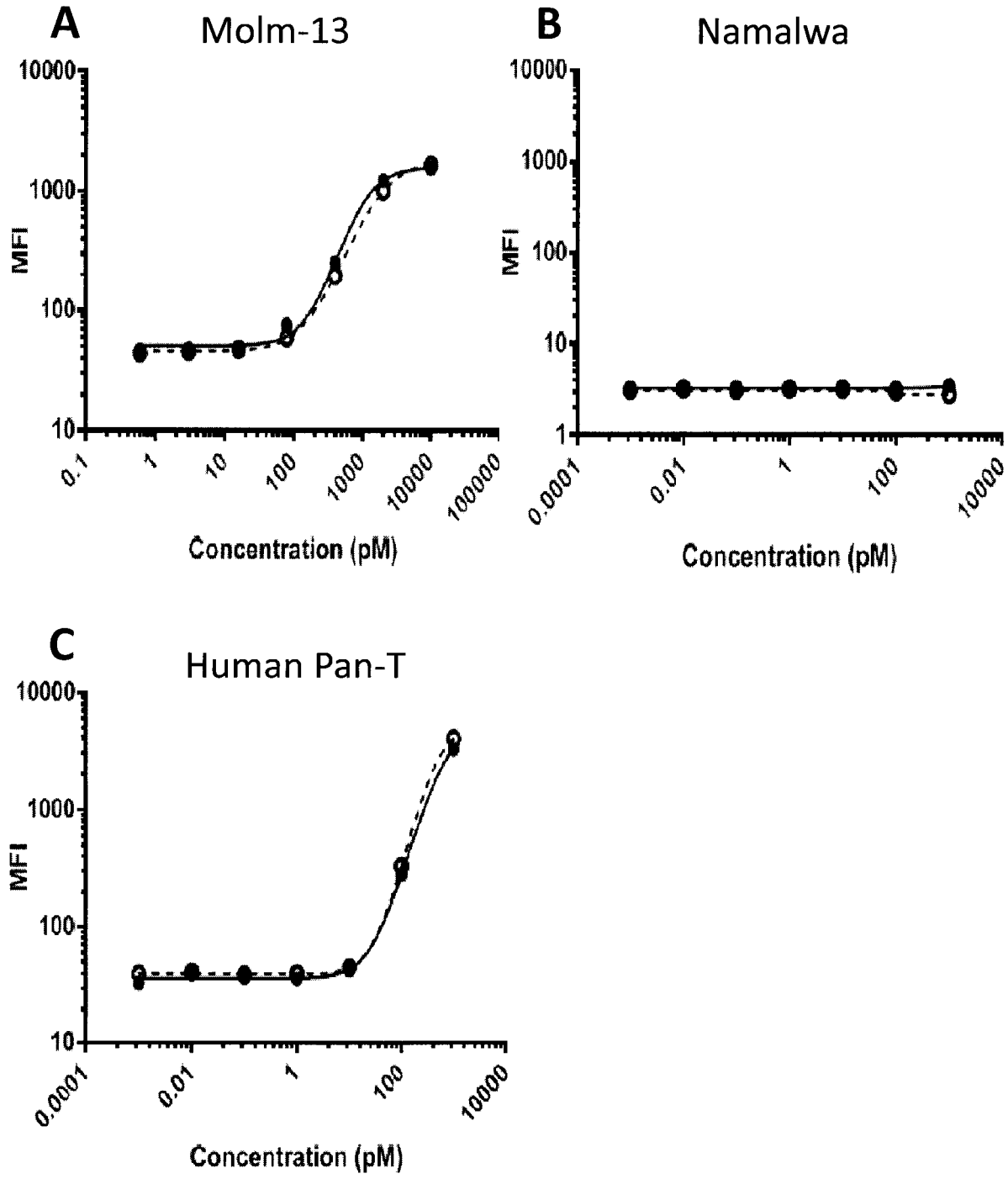

A
Molm-13
MFI
10000
1000
100
10
0.1
1
10
100
1000
10000
100000
Concentration (pM)
B
Namalwa
MFI
10000
1000
100
10
1
0.0001
0.01
1
100
10000
Concentration (pM)
C
Human Pan-T
MFI
10000
1000
100
10
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 9

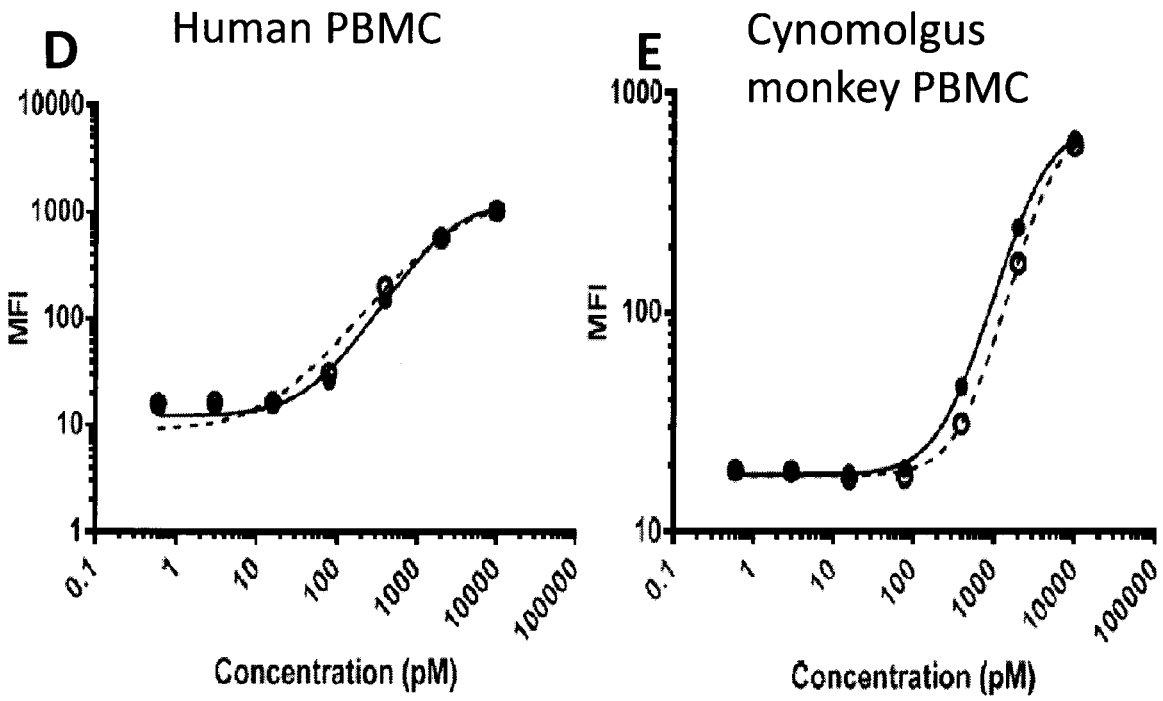


Figure 9 (cont.)

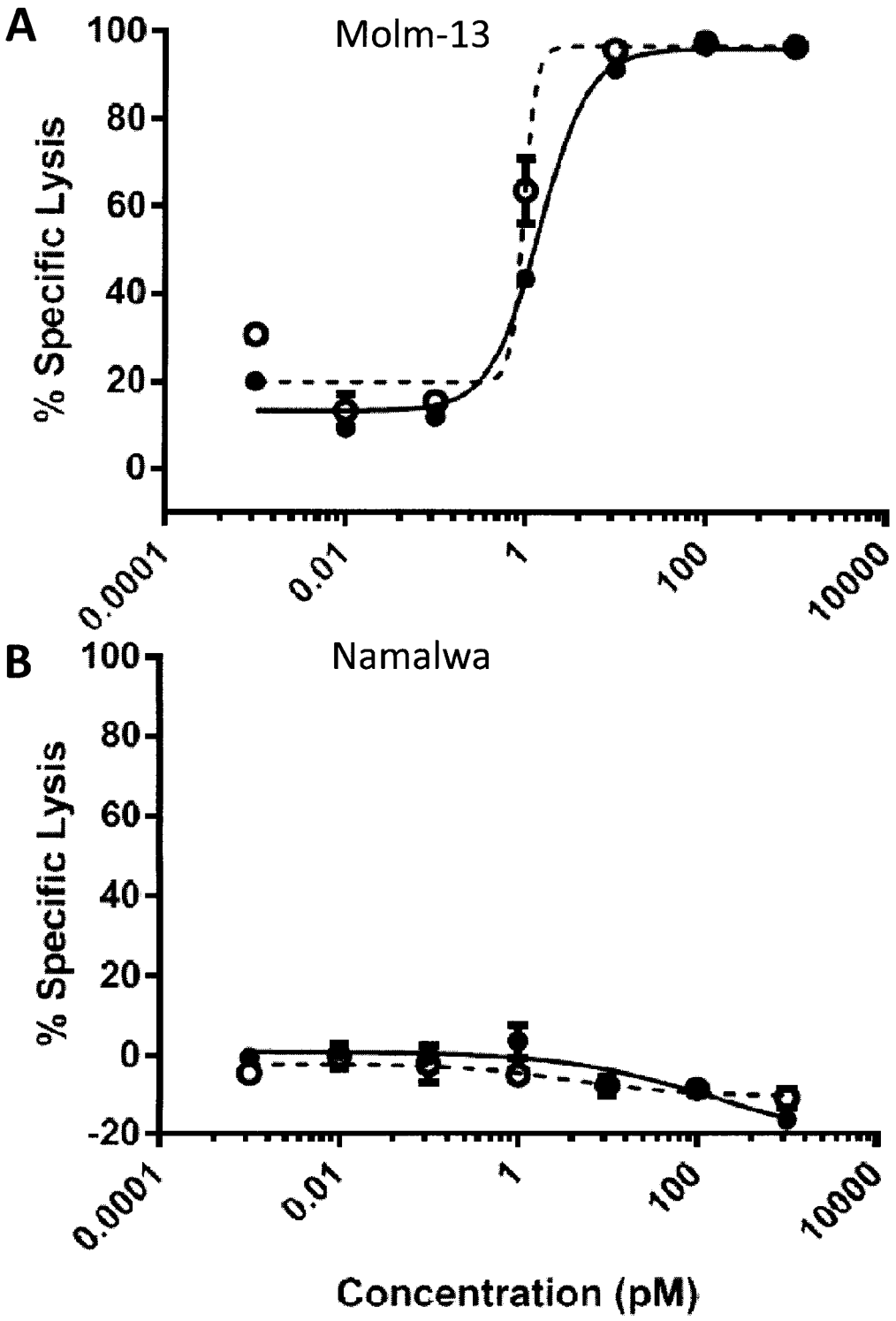

A
Molm-13
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
B
Namalwa
% Specific Lysis
100
80
60
40
20
0
-20
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 10

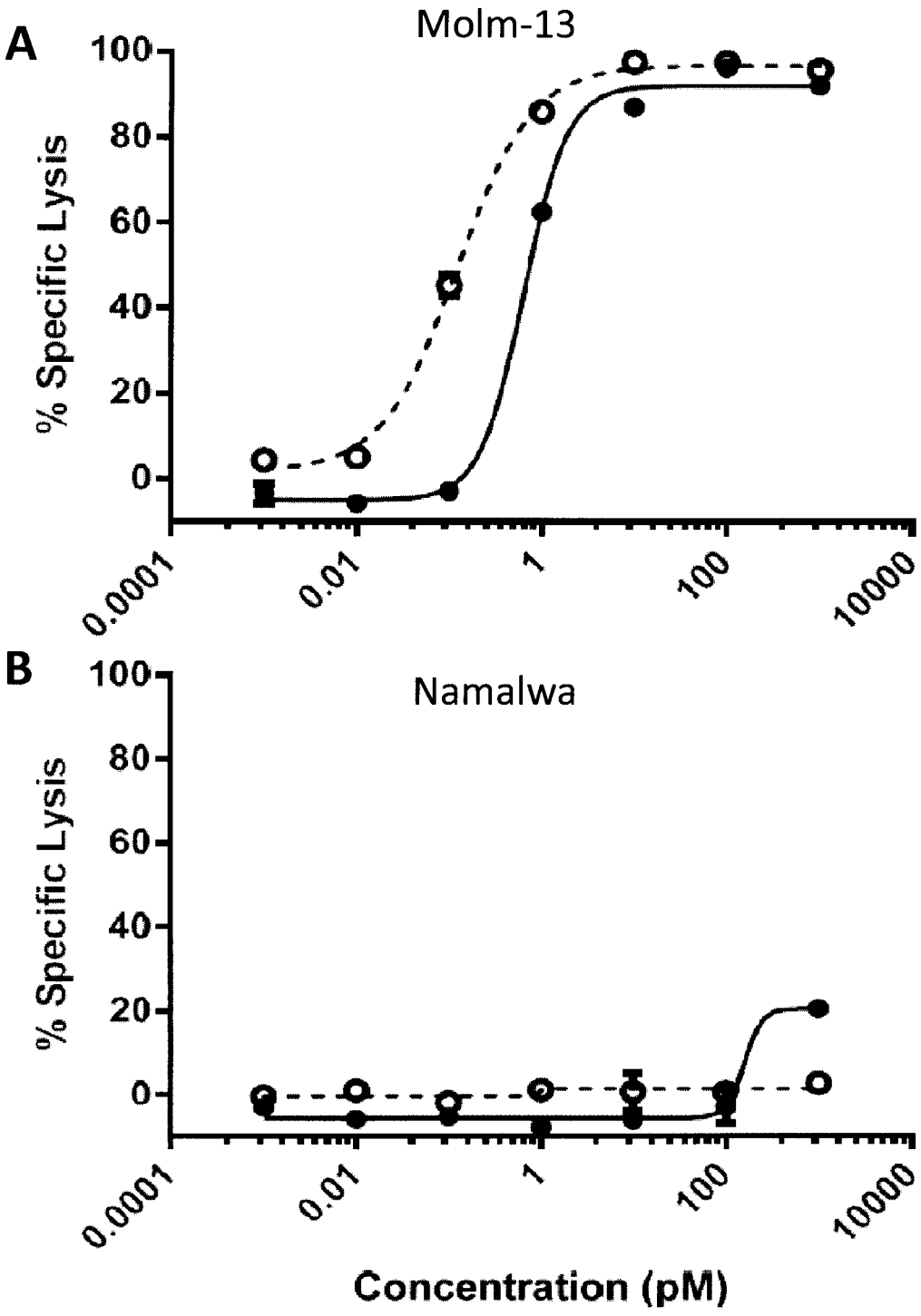

A
Molm-13
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
B
Namalwa
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 11

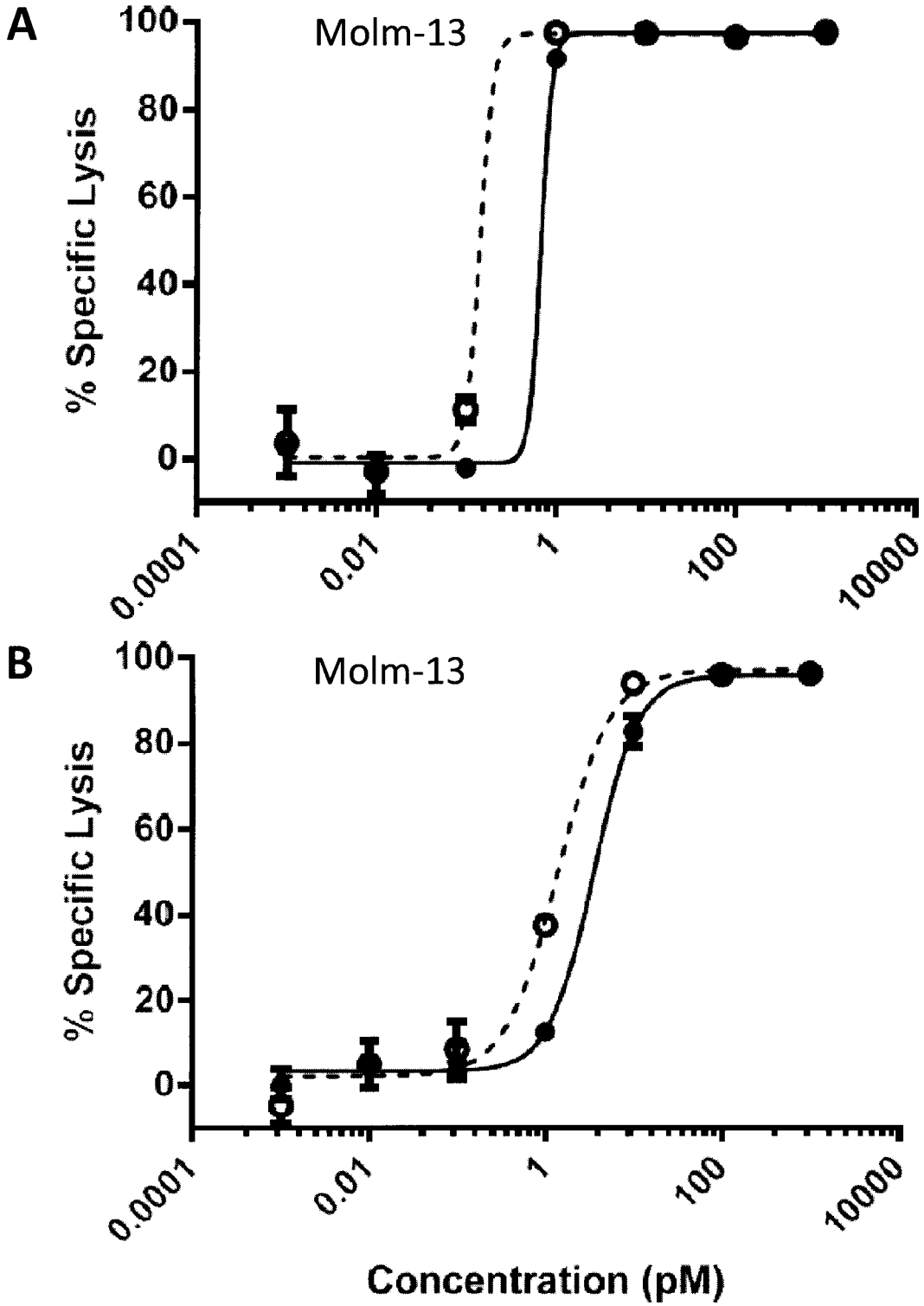

A
Molm-13
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
B
Molm-13
% Specific Lysis
100
80
60
40
20
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 12

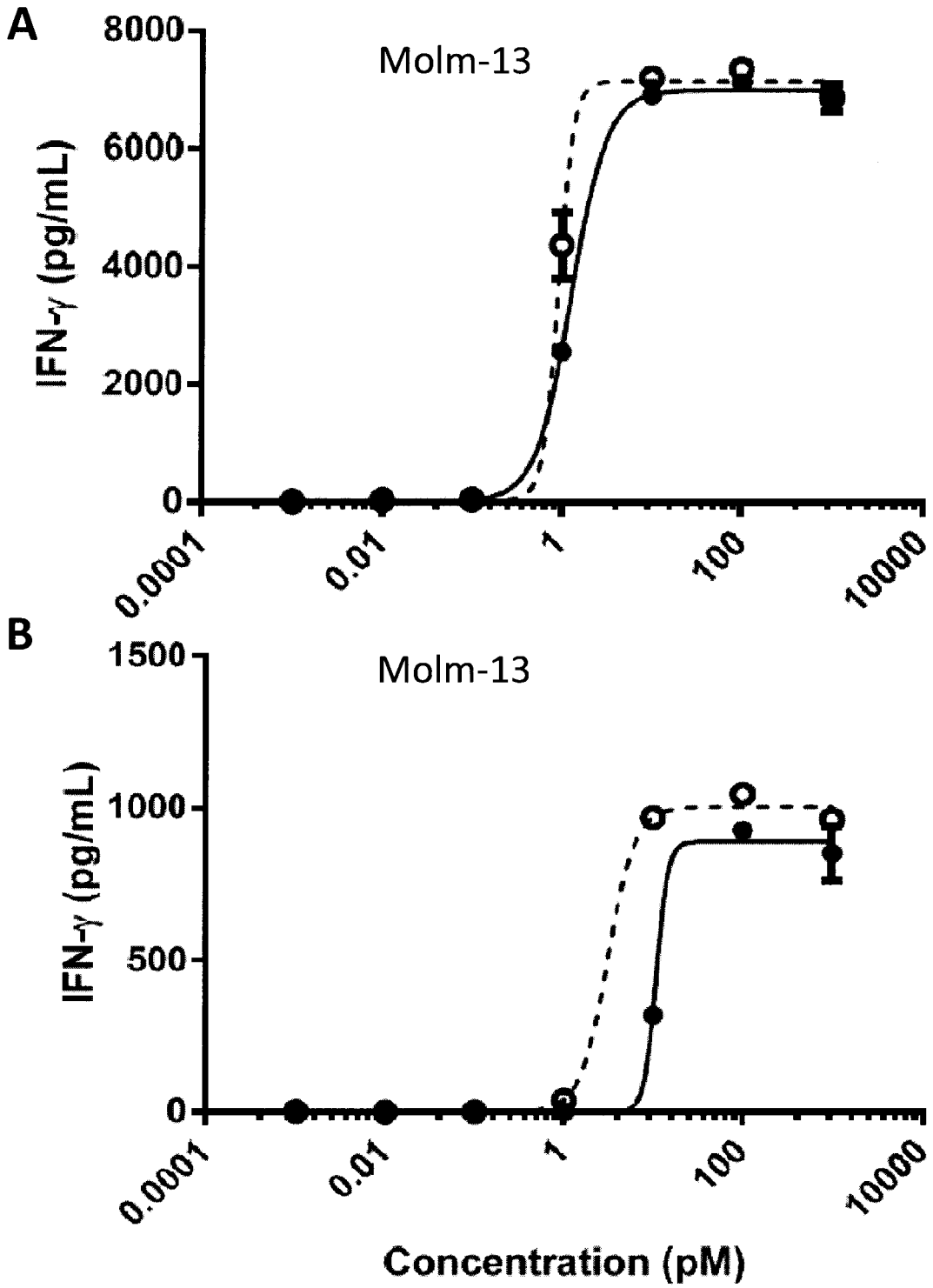

A
Molm-13
IFN-γ (pg/mL)
8000
6000
4000
2000
0
0.0001
0.01
1
100
10000
B
Molm-13
IFN-γ (pg/mL)
1500
1000
500
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 13

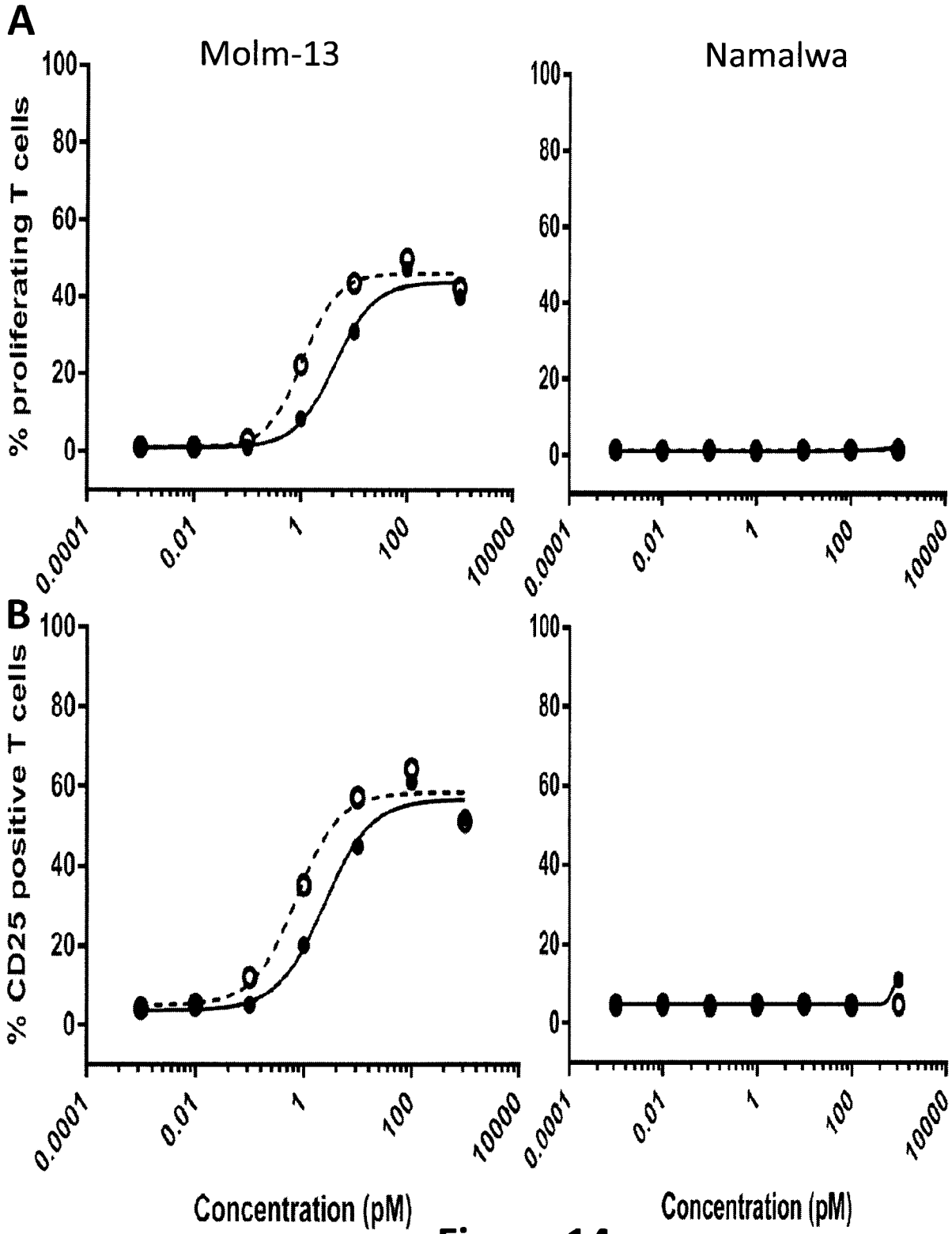

A
Molm-13
Namalwa
% proliferating T cells
100
80
60
40
20
0
0.0001
0.01
1
100
10000
B
% CD25 positive T cells
Concentration (pM)
Concentration (pM)

Figure 14

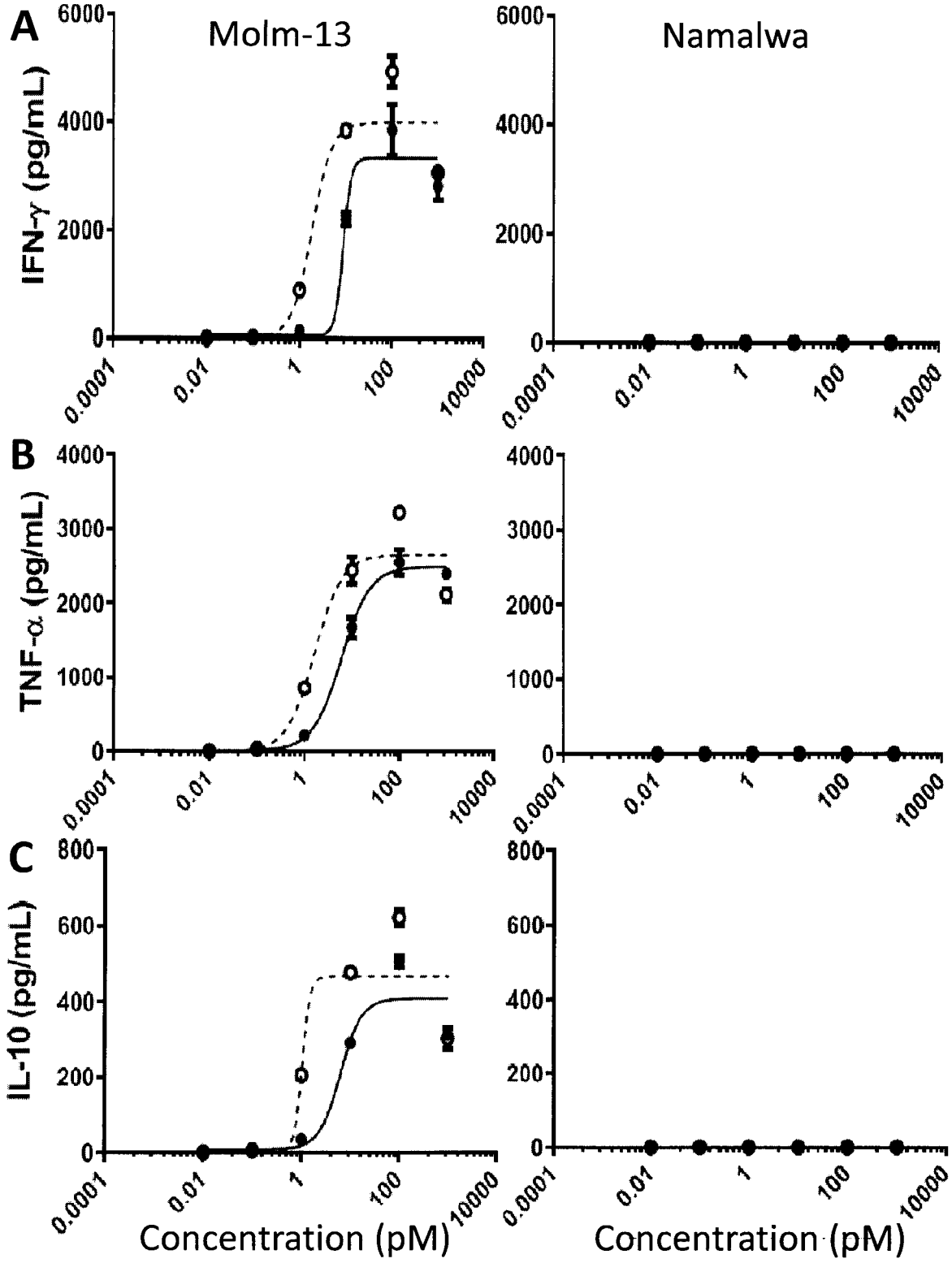

A
Molm-13
Namalwa
IFN-γ (pg/mL)
6000
4000
2000
0
B
TNF-α (pg/mL)
4000
3000
2000
1000
0
C
IL-10 (pg/mL)
800
600
400
200
0
0.0001
0.01
1
100
10000
Concentration (pM)

Figure 15

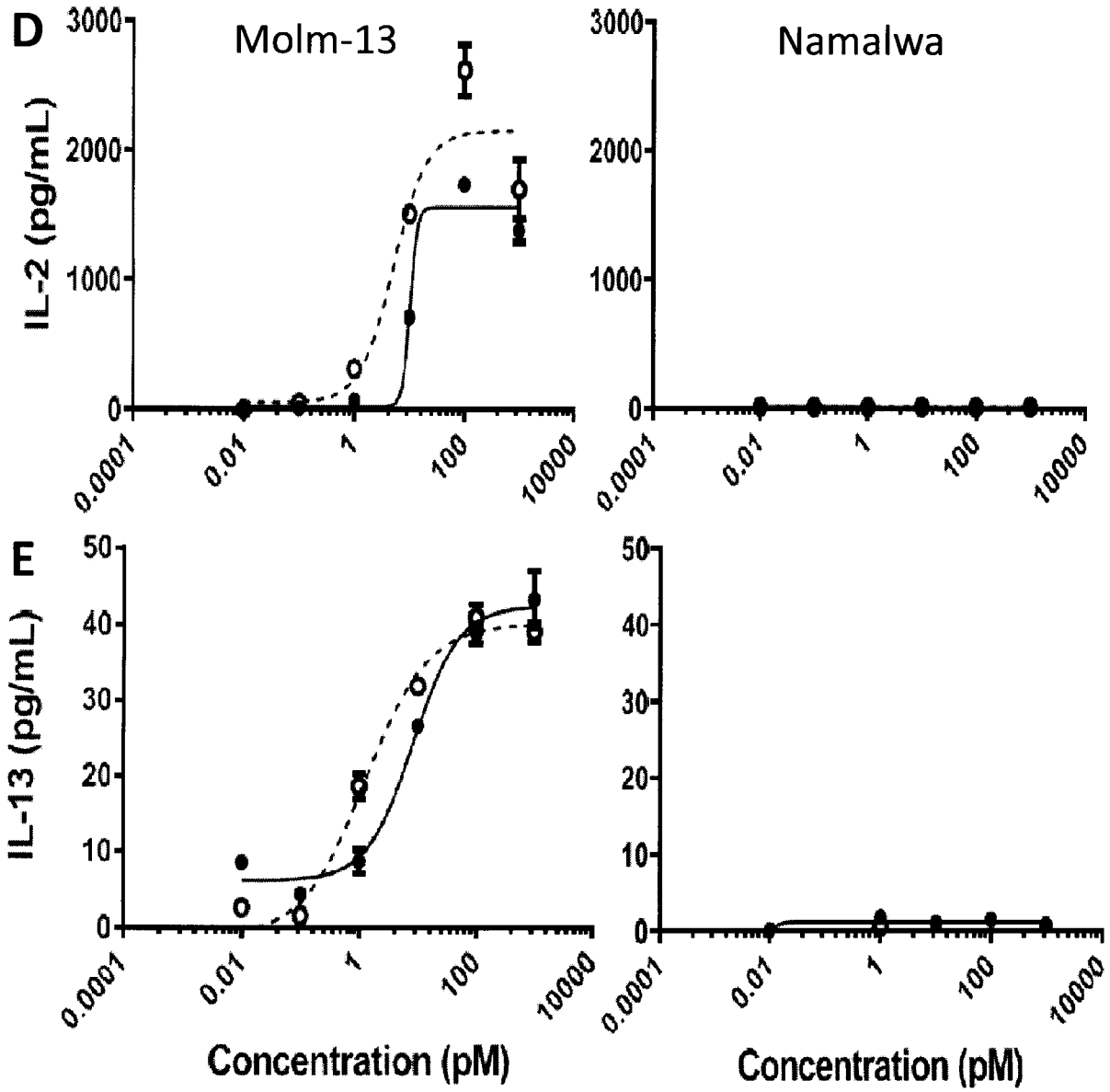


Figure 15 (cont.)

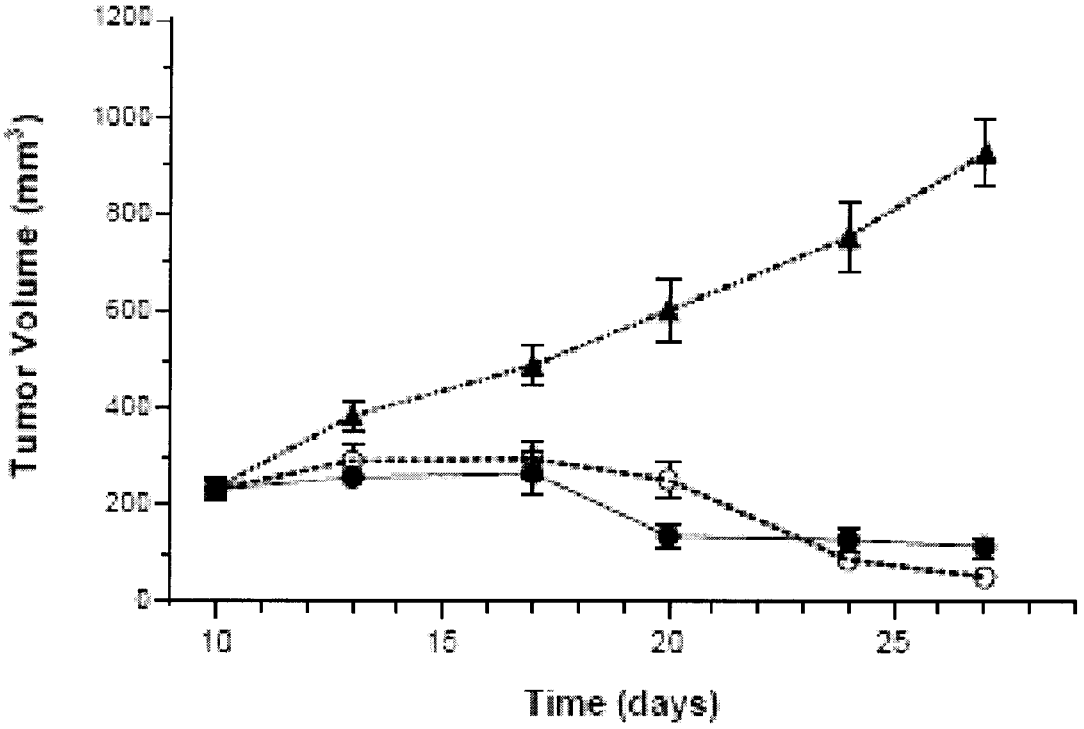

Tumor Volume (mm³)
1200
1000
800
600
400
200
0
10
15
20
25
Time (days)

Figure 16

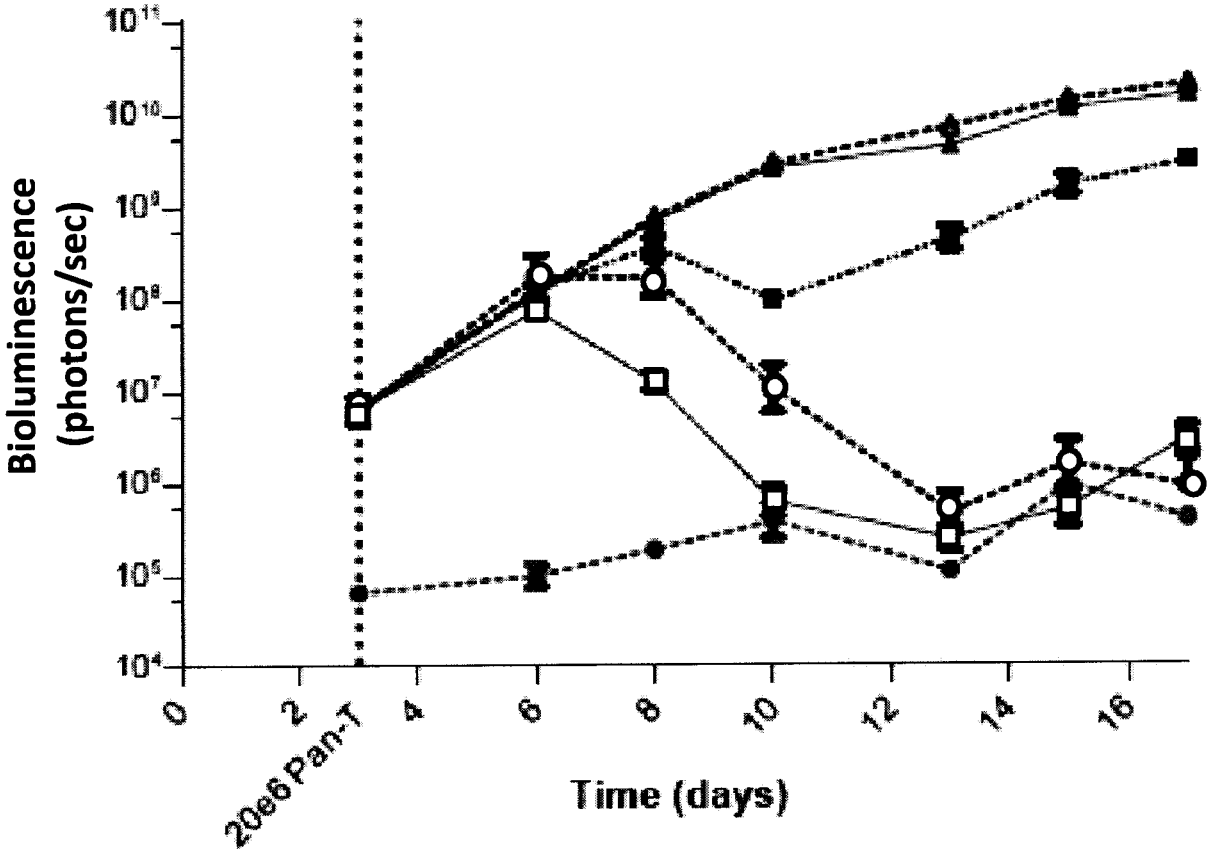

Bioluminescence (photons/sec)
10^{11}
10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
10^{4}
0
2
20e6 Pan-T
4
6
8
10
12
14
16
Time (days)

Figure 17

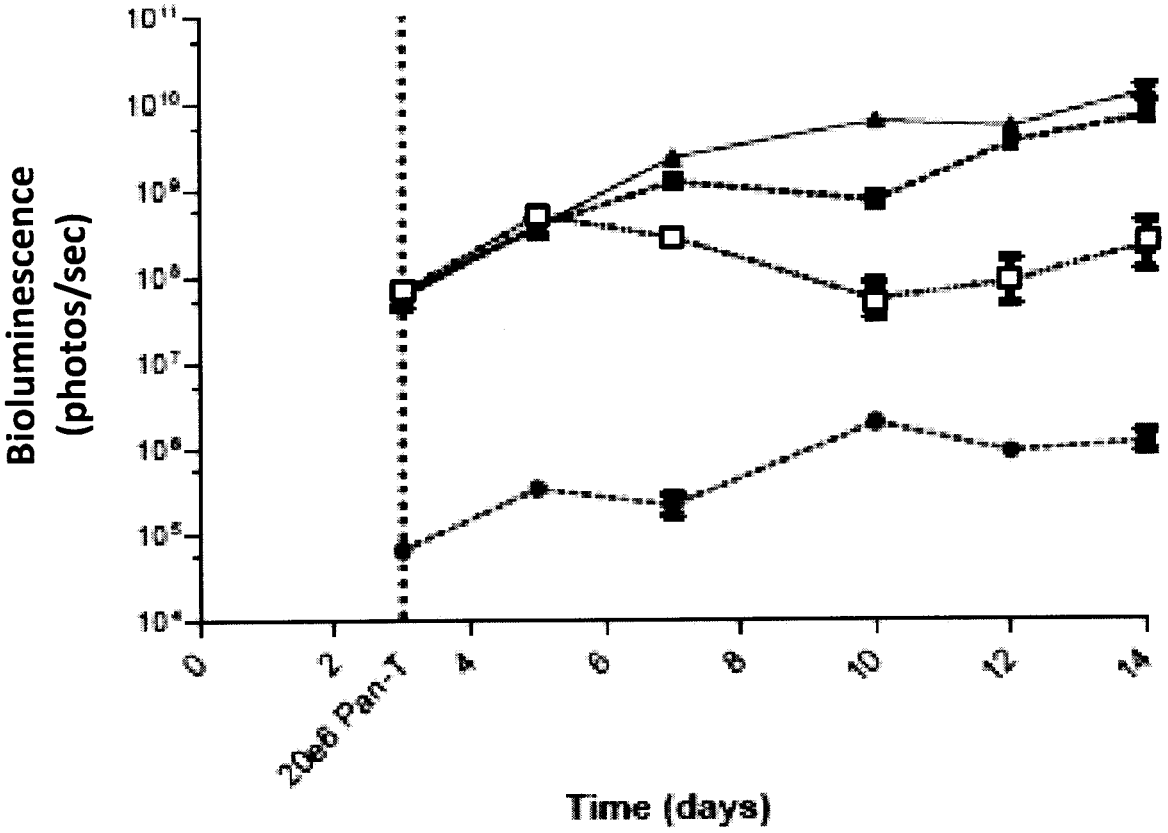

Bioluminescence (photos/sec)
10^11
10^10
10^9
10^8
10^7
10^6
10^5
10^4
0
2
4
6
8
10
12
14
20e6 Pan-T
Time (days)

Figure 18