Figure 1

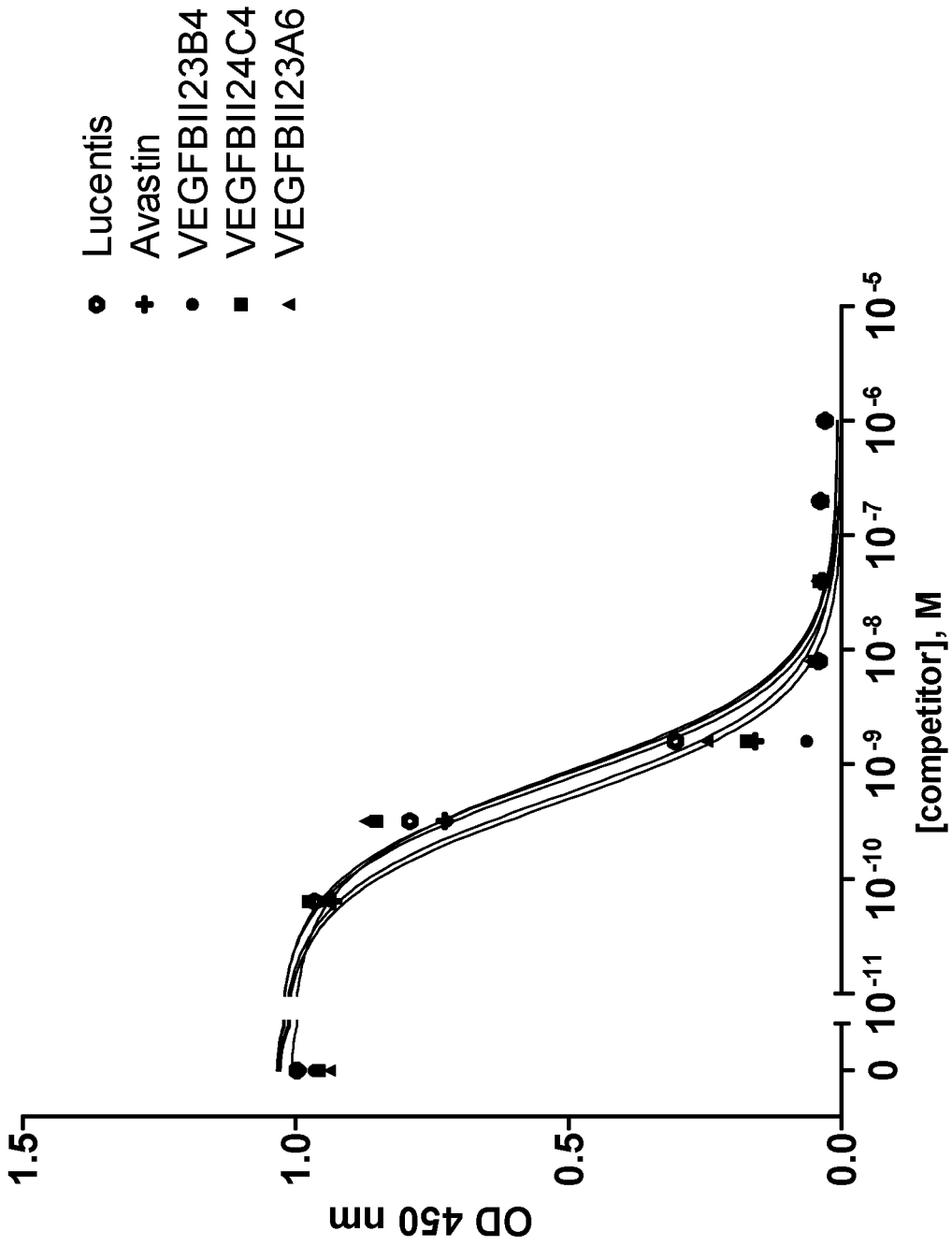

Lucentis
Avastin
VEGFBII23B4
VEGFBII24C4
VEGFBII23A6
OD 450 nm
1.5
1.0
0.5
0.0
0
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[competitor], M

Figure 2

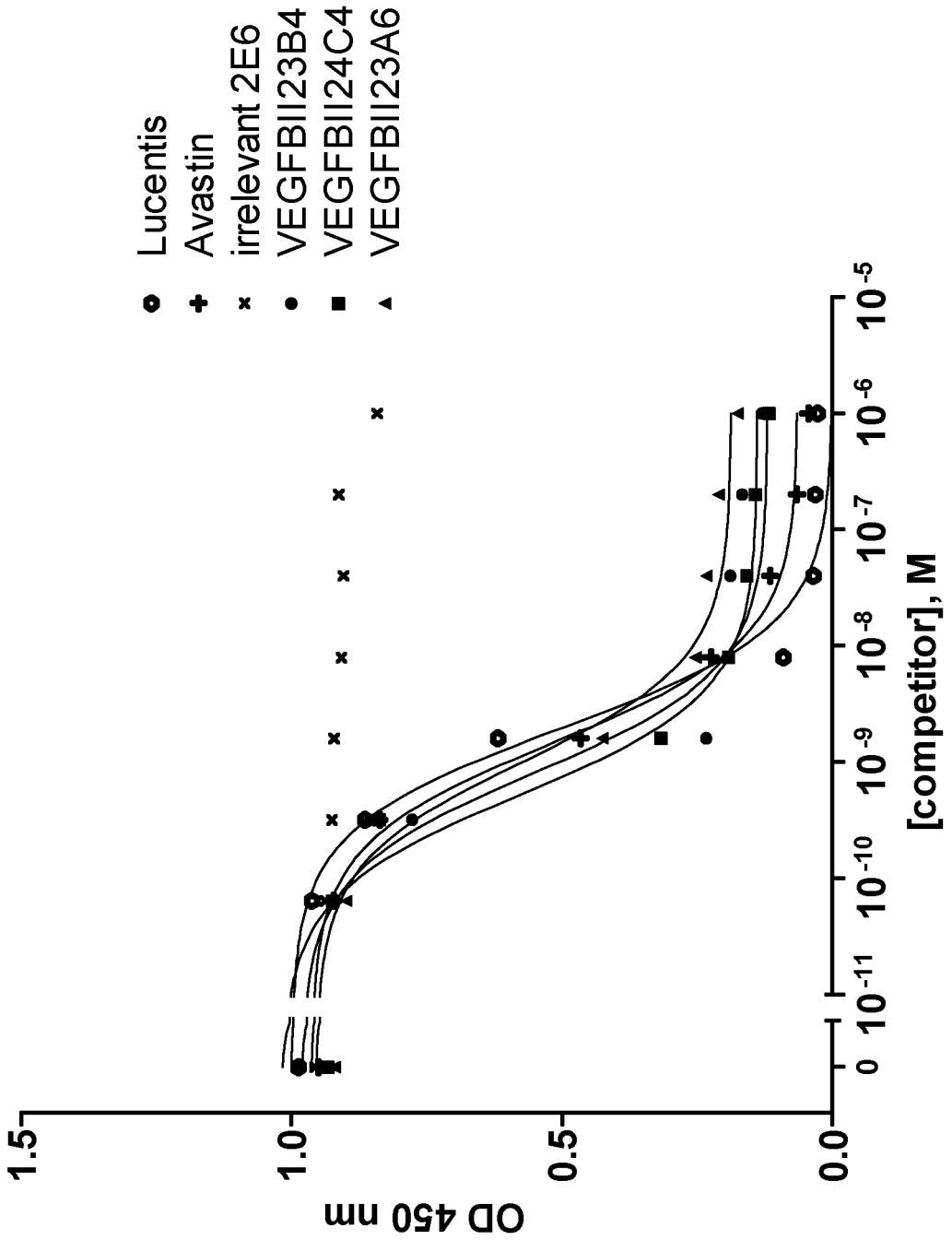

Lucentis
Avastin
irrelevant 2E6
VEGFBII23B4
VEGFBII24C4
VEGFBII23A6
OD 450 nm
1.5
1.0
0.5
0.0
0
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[competitor], M

Figure 3

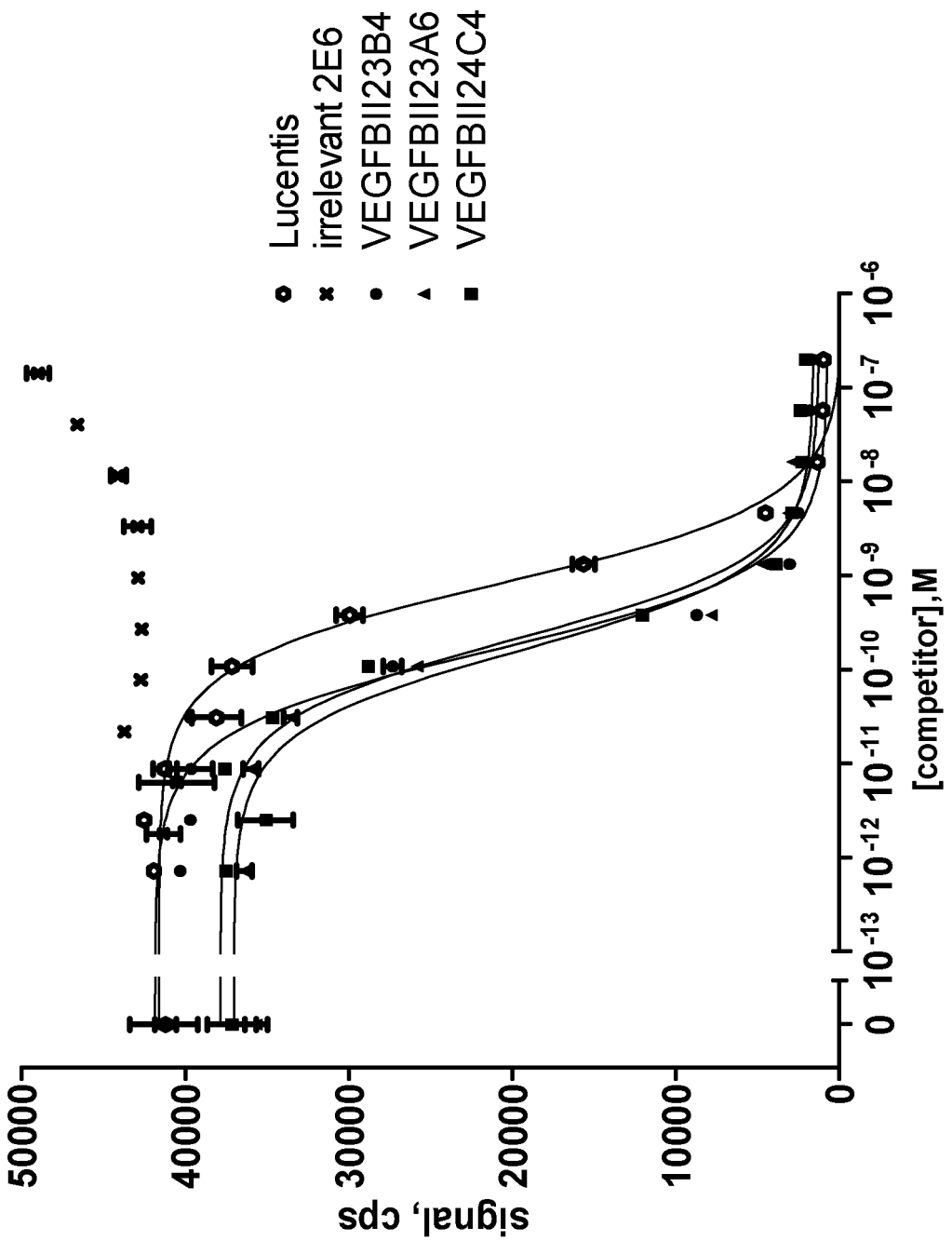
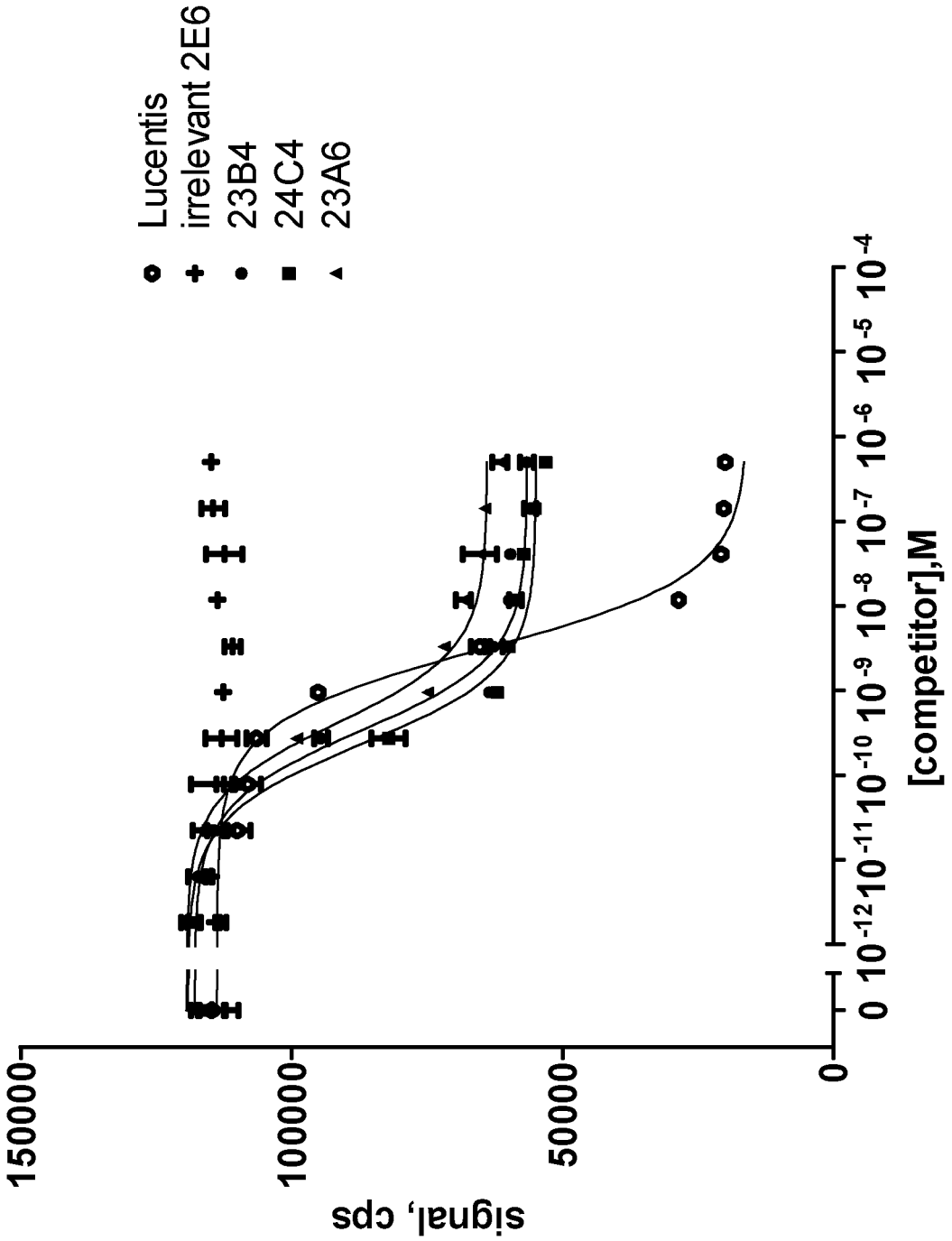
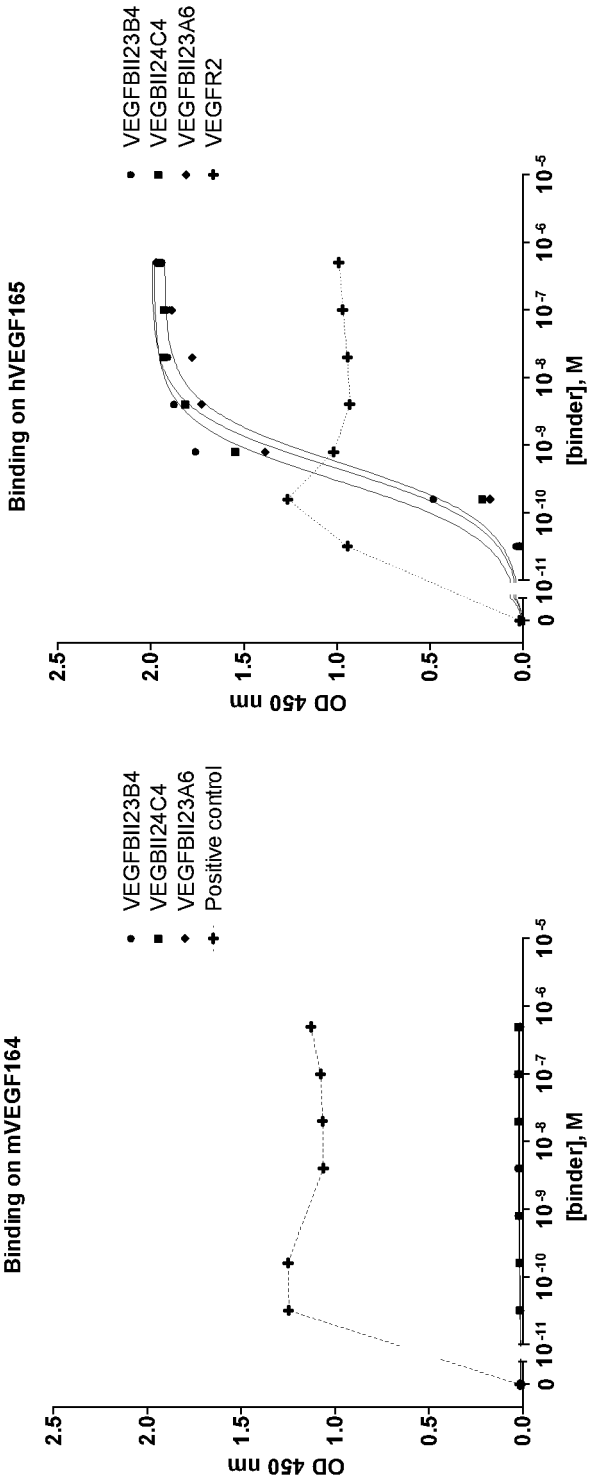

Lucentis
irrelevant 2E6
VEGFBII23B4
VEGFBII23A6
VEGFBII24C4
signal, cps
50000
40000
30000
20000
10000
0
0
10-13
10-12
10-11
10-10
10-9
10-8
10-7
10-6
[competitor],M

Figure 4

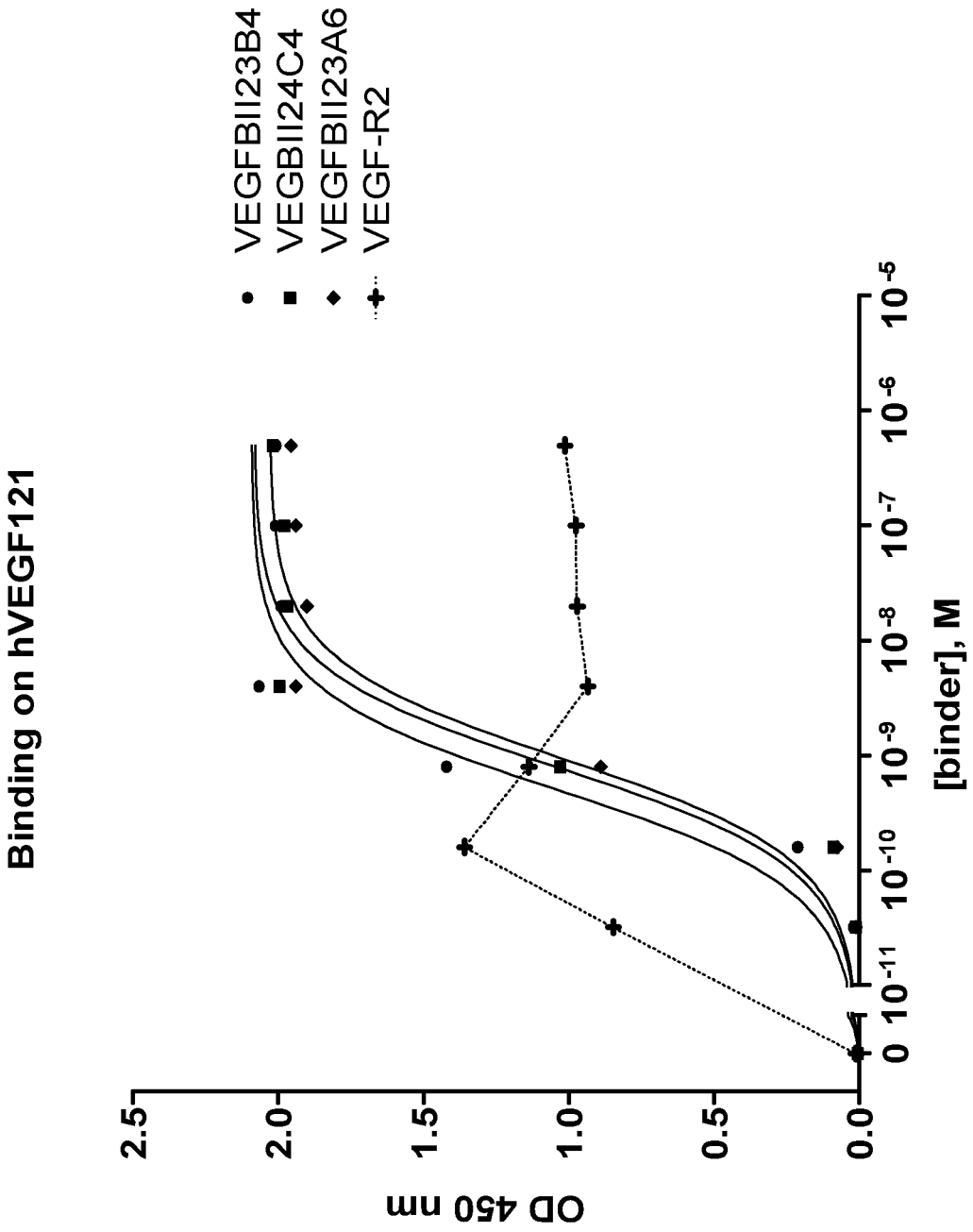

Lucentis
irrelevant 2E6
23B4
24C4
23A6
signal, cps
150000
100000
50000
0
0 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5 10-4
[competitor],M

5 / 125
Figure 5



6 / 125

Figure 6



7 / 125

Figure 7

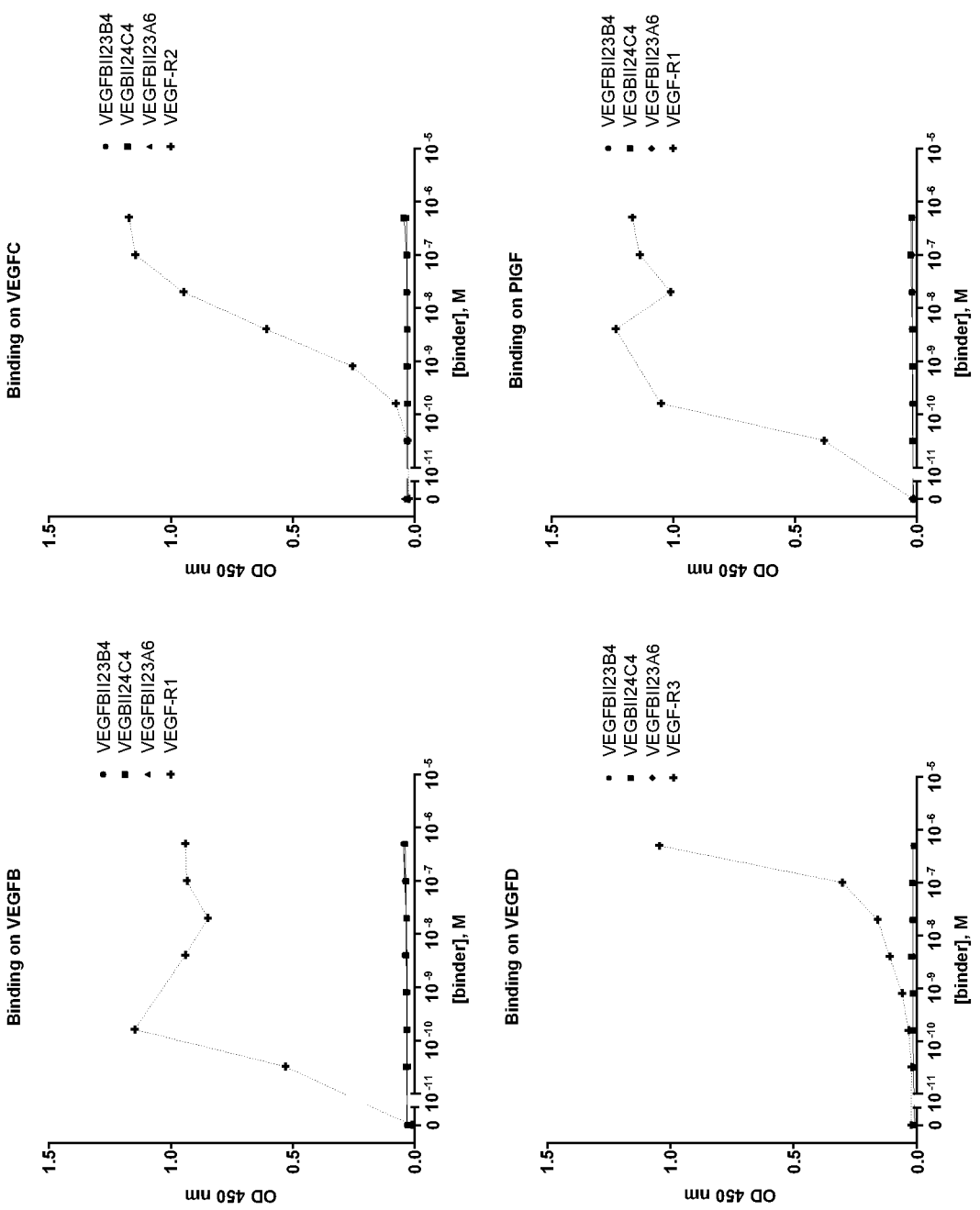


Figure 8

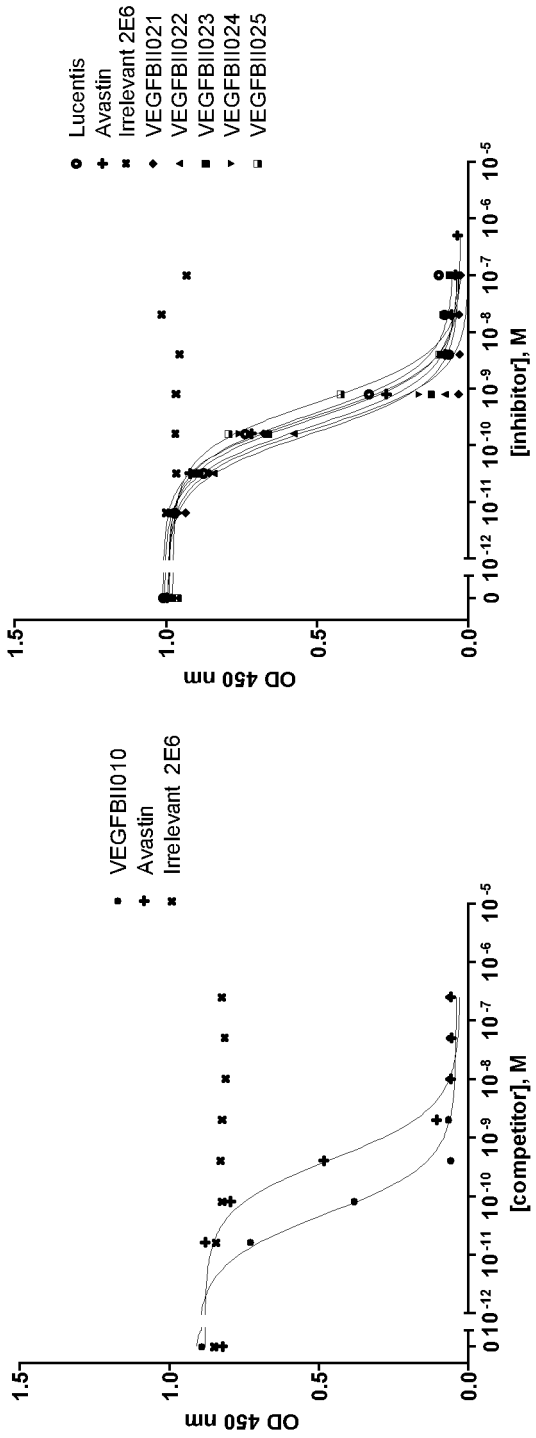

Lucentis
Avastin
Irrelevant 2E6
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
OD 450 nm
[inhibitor], M
VEGFBII010
Avastin
Irrelevant 2E6
OD 450 nm
[competitor], M

Figure 9

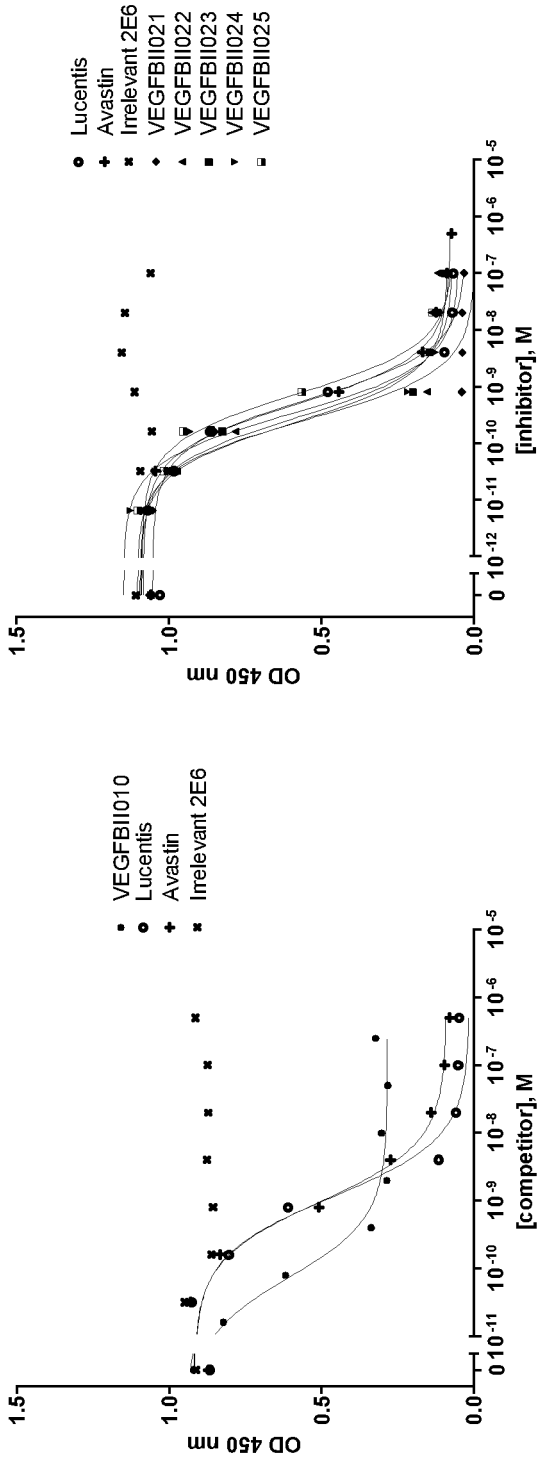

Lucentis
Avastin
Irrelevant 2E6
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
OD 450 nm
[inhibitor], M
VEGFBII010
Lucentis
Avastin
Irrelevant 2E6
OD 450 nm
[competitor], M

Figure 10

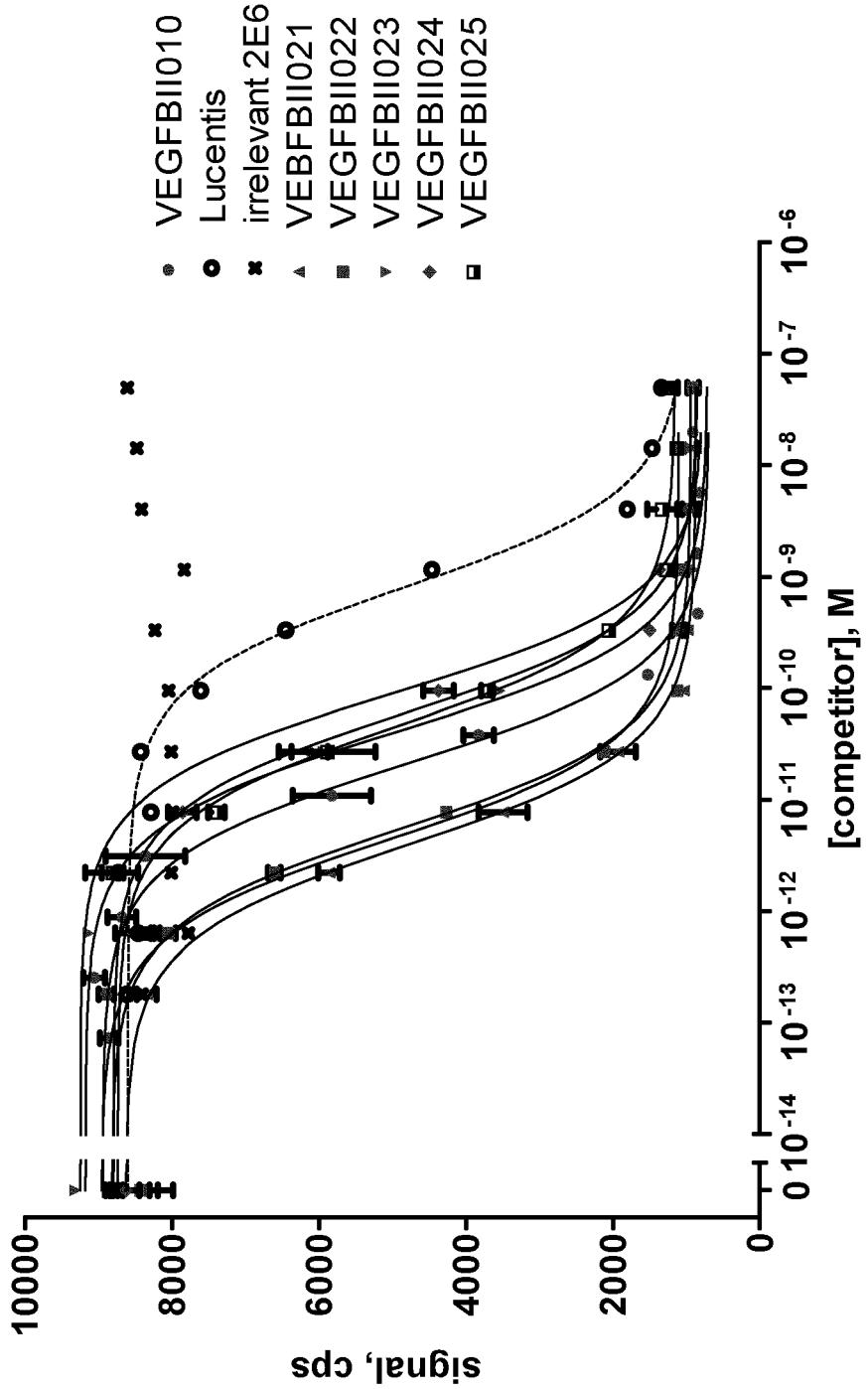

VEGFBII010
Lucentis
irrelevant 2E6
VEBFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
signal, cps
10000
8000
6000
4000
2000
0
0 10-14 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6
[competitor], M

Figure 11

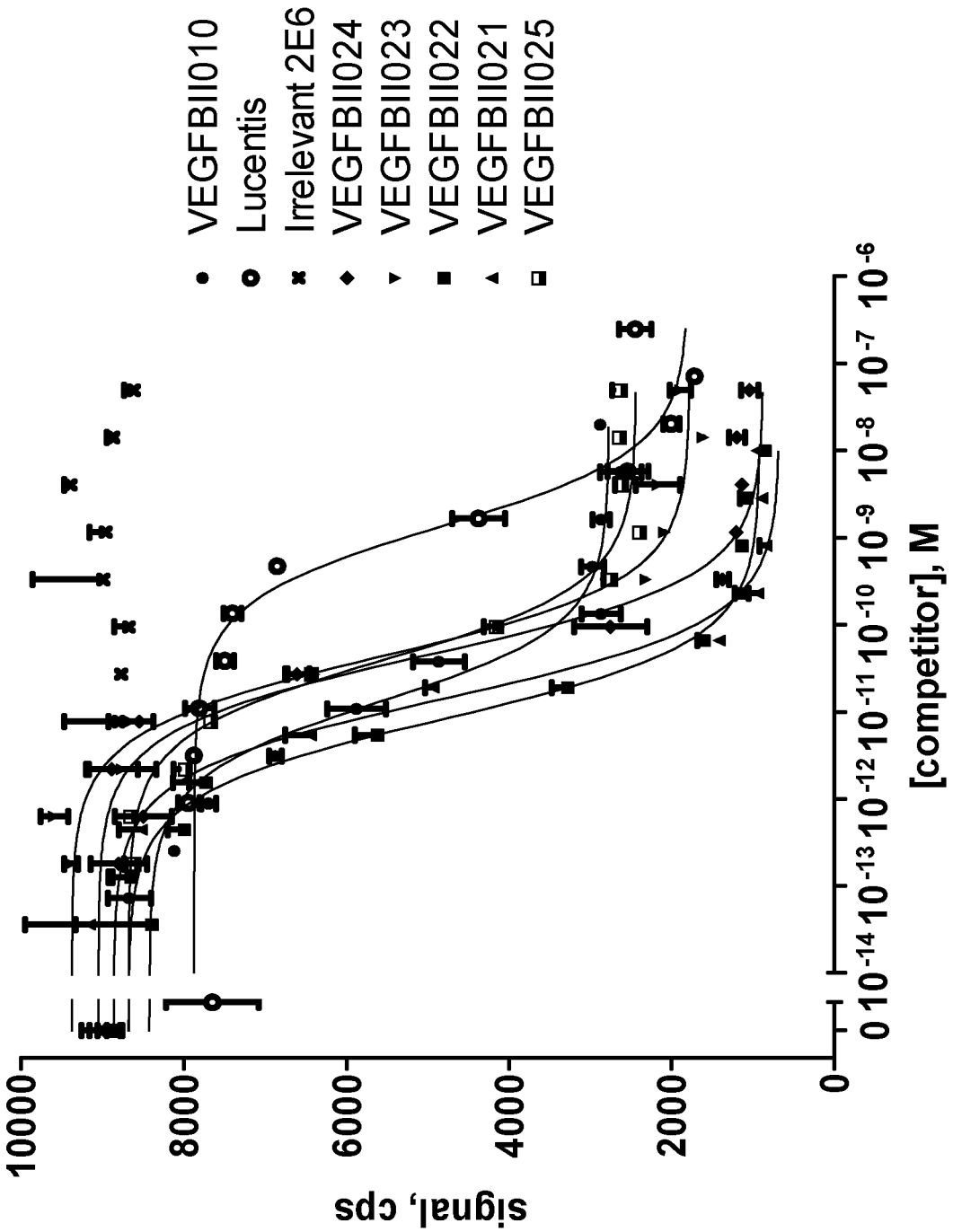
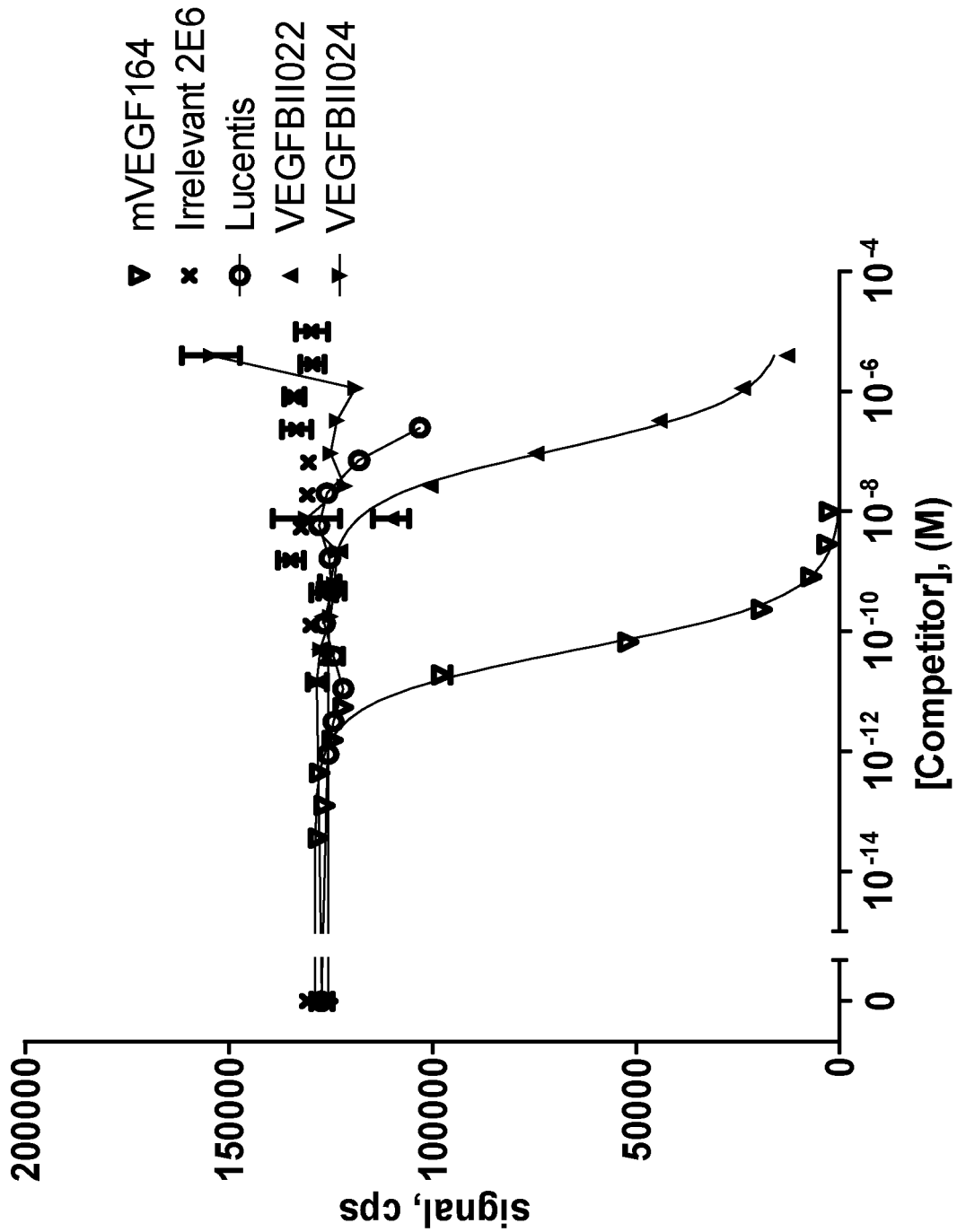

VEGFBII010
Lucentis
Irrelevant 2E6
VEGFBII024
VEGFBII023
VEGFBII022
VEGFBII021
VEGFBII025
signal, cps
0
2000
4000
6000
8000
10000
0 10-14 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6
[competitor], M

Figure 12


mVEGF164
Irrelevant 2E6
Lucentis
VEGFBII022
VEGFBII024
signal, cps
200000
150000
100000
50000
0
0
10-14
10-12
10-10
10-8
10-6
10-4
[Competitor], (M)

13 / 125
Figure 13

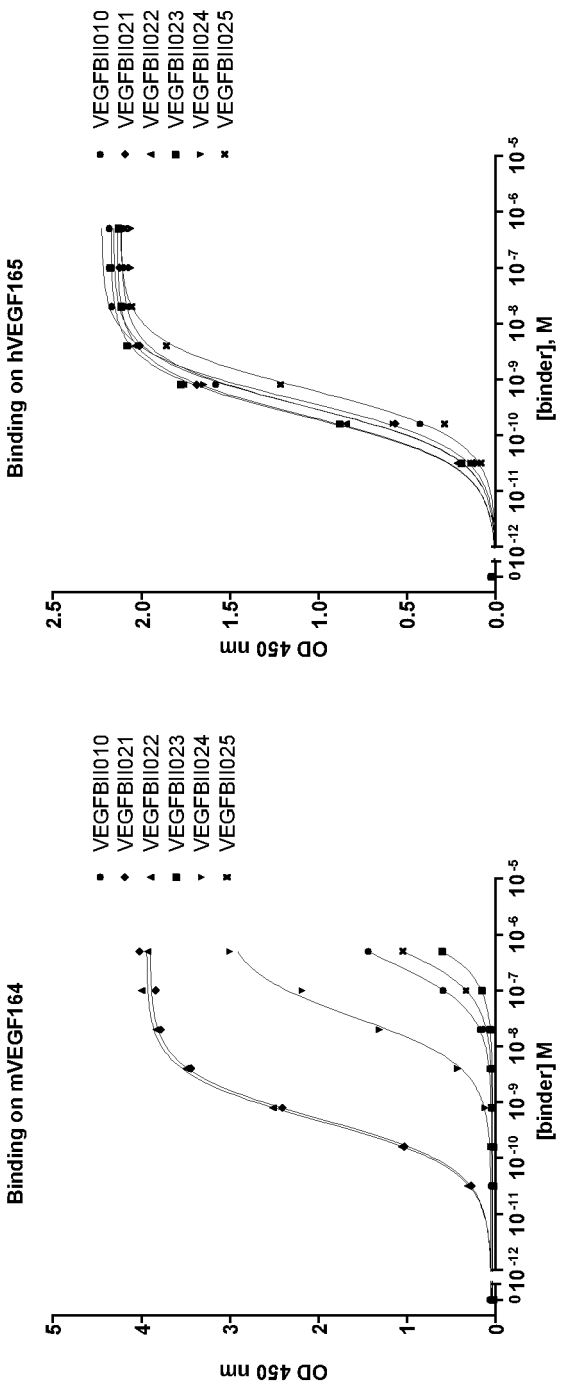


Figure 14-1

A

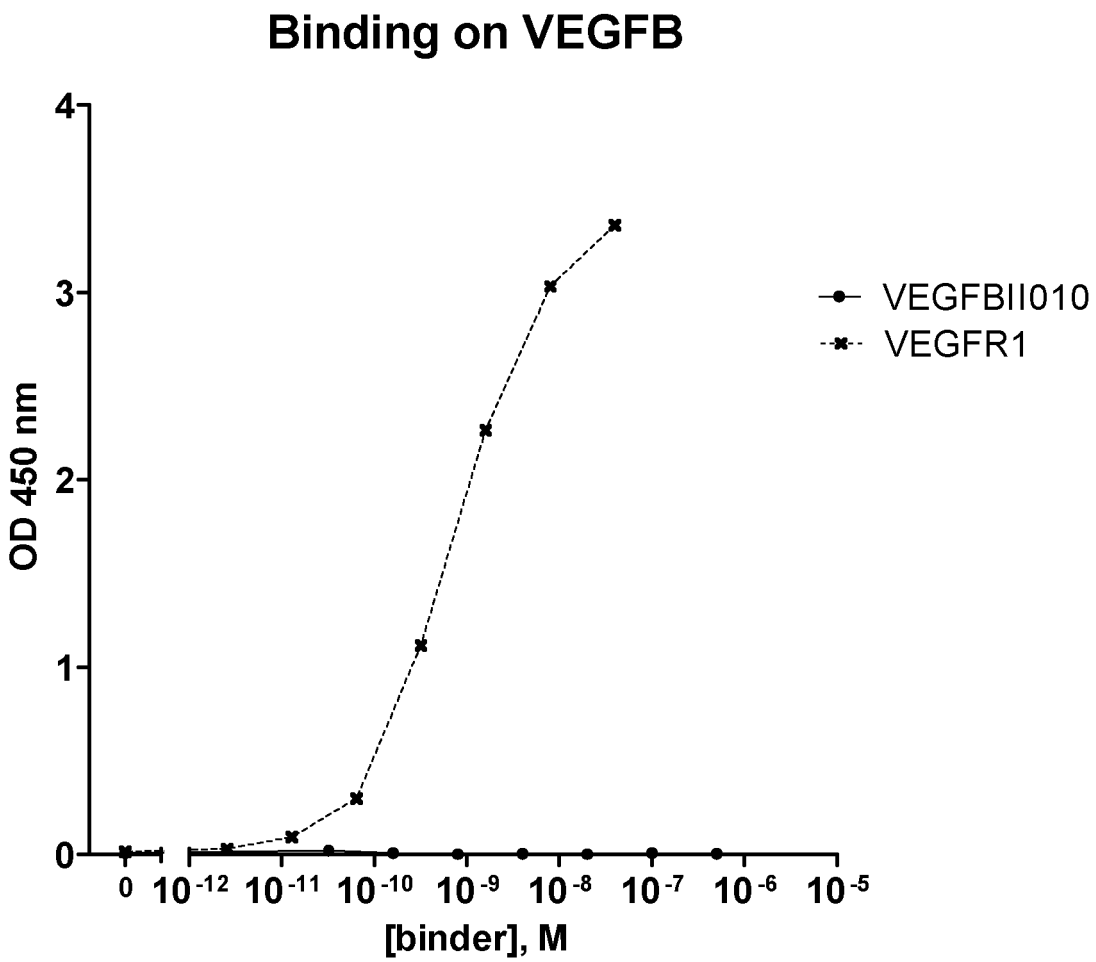

Binding on VEGFB
OD 450 nm
4
3
2
1
0
0
10-12
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[binder], M
VEGFBII010
VEGFR1

Figure 14-2

B

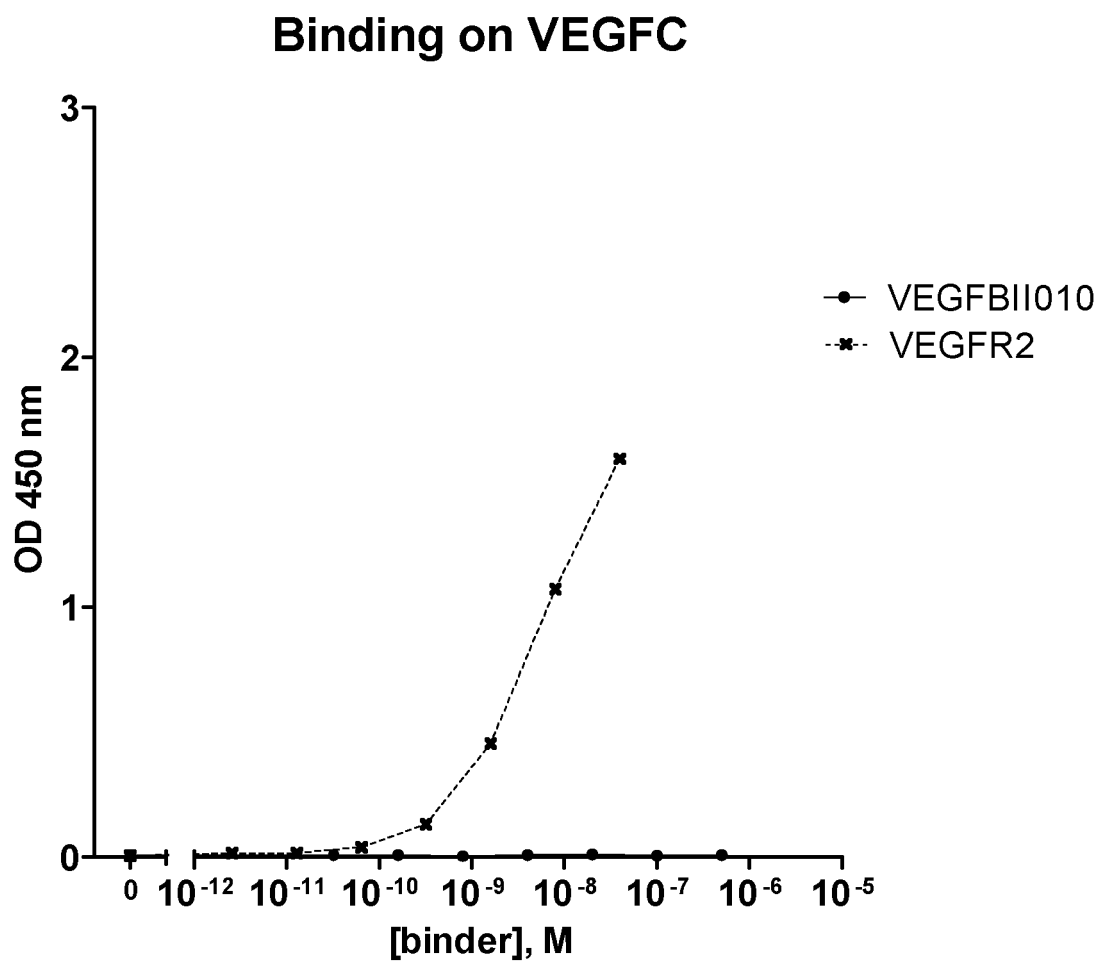

Binding on VEGFC
OD 450 nm
3
2
1
0
0
10-12
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[binder], M
VEGFBII010
VEGFR2

Figure 14-3

C

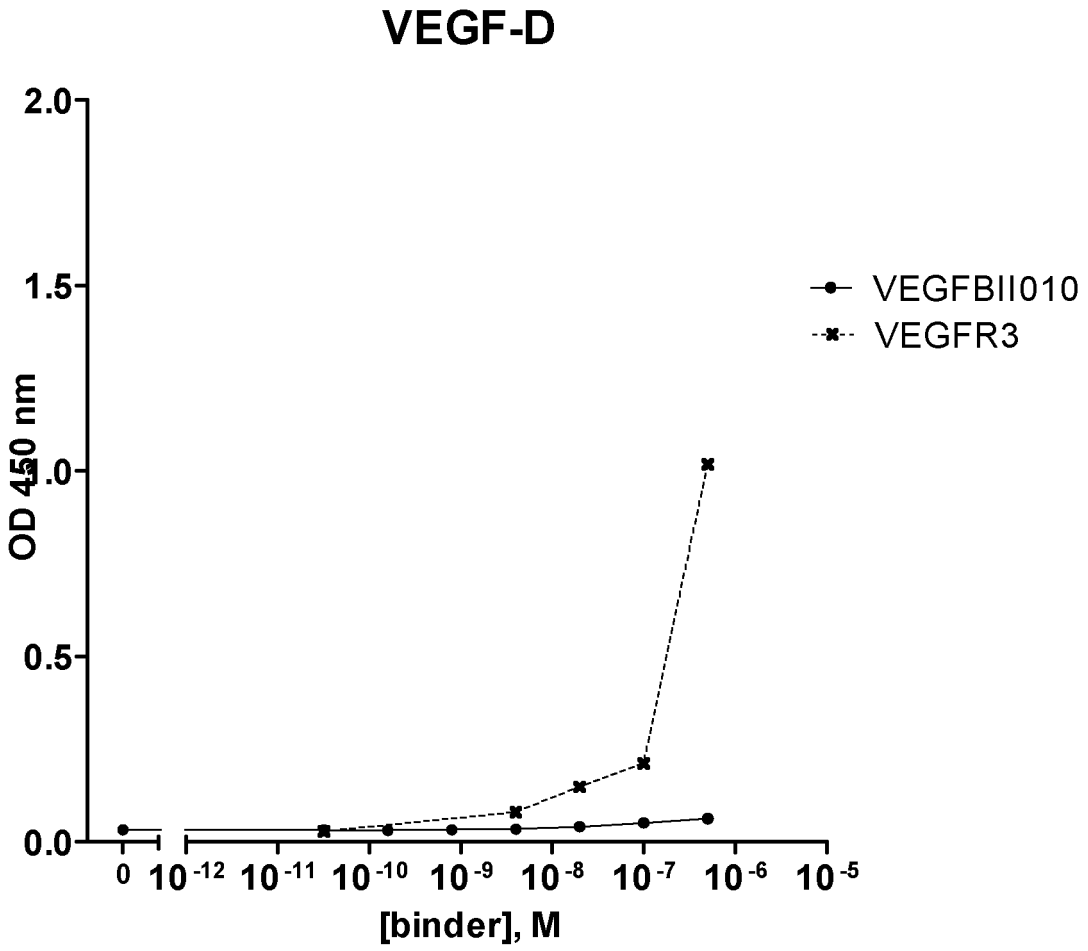

VEGF-D
2.0
1.5
1.0
0.5
0.0
OD 450 nm
VEGFBII010
VEGFR3
0
10-12
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[binder], M

Figure 14-4

D

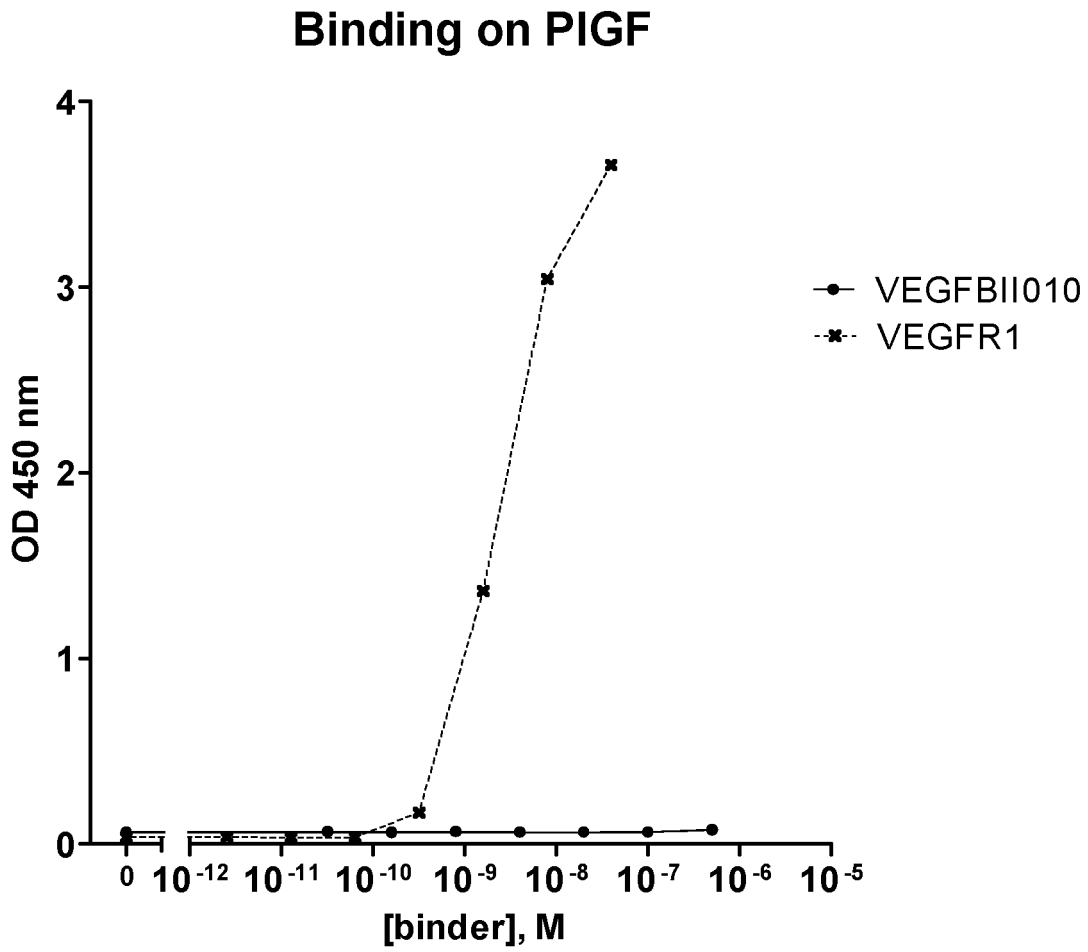

Binding on PlGF
OD 450 nm
4
3
2
1
0
0
10-12
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[binder], M
VEGFBII010
VEGFR1

Figure 14-5

E

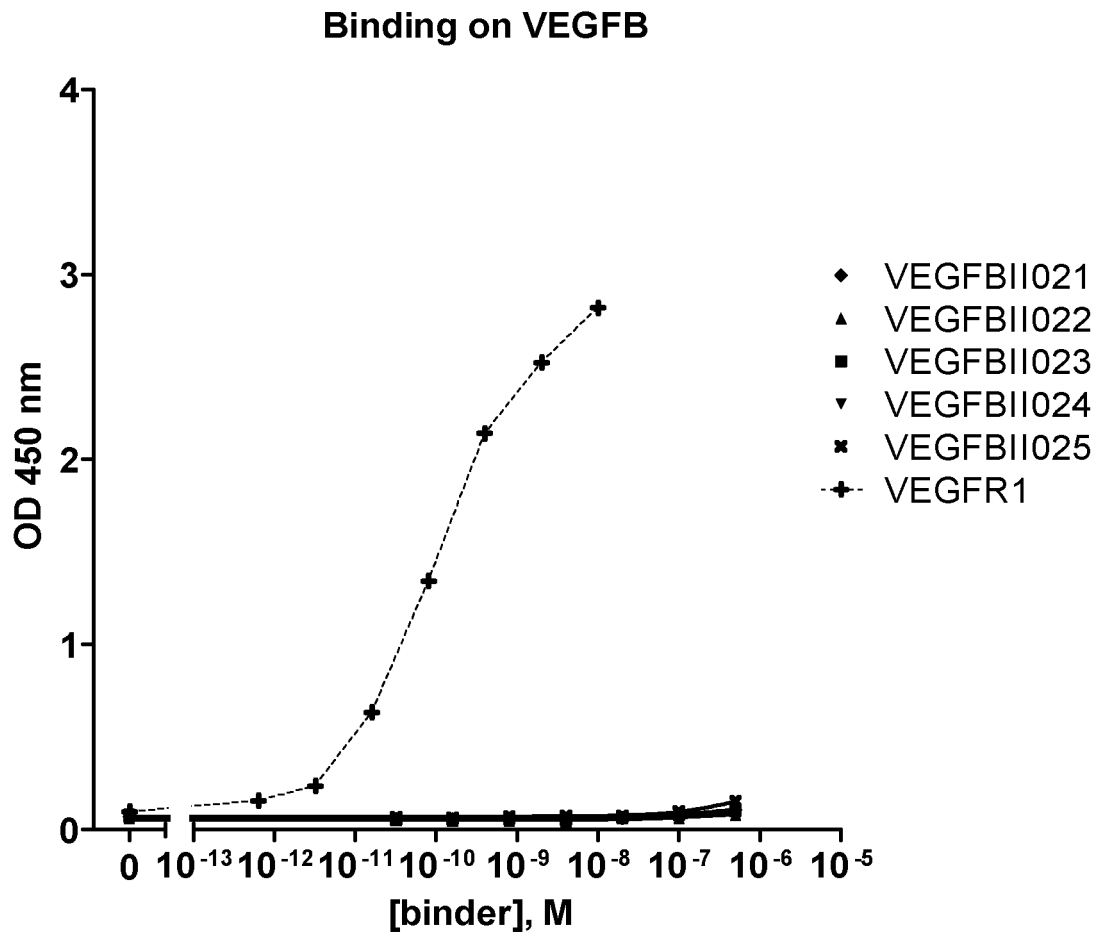

Binding on VEGFB
OD 450 nm
4
3
2
1
0
0 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5
[binder], M
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
VEGFR1

Figure 14-6

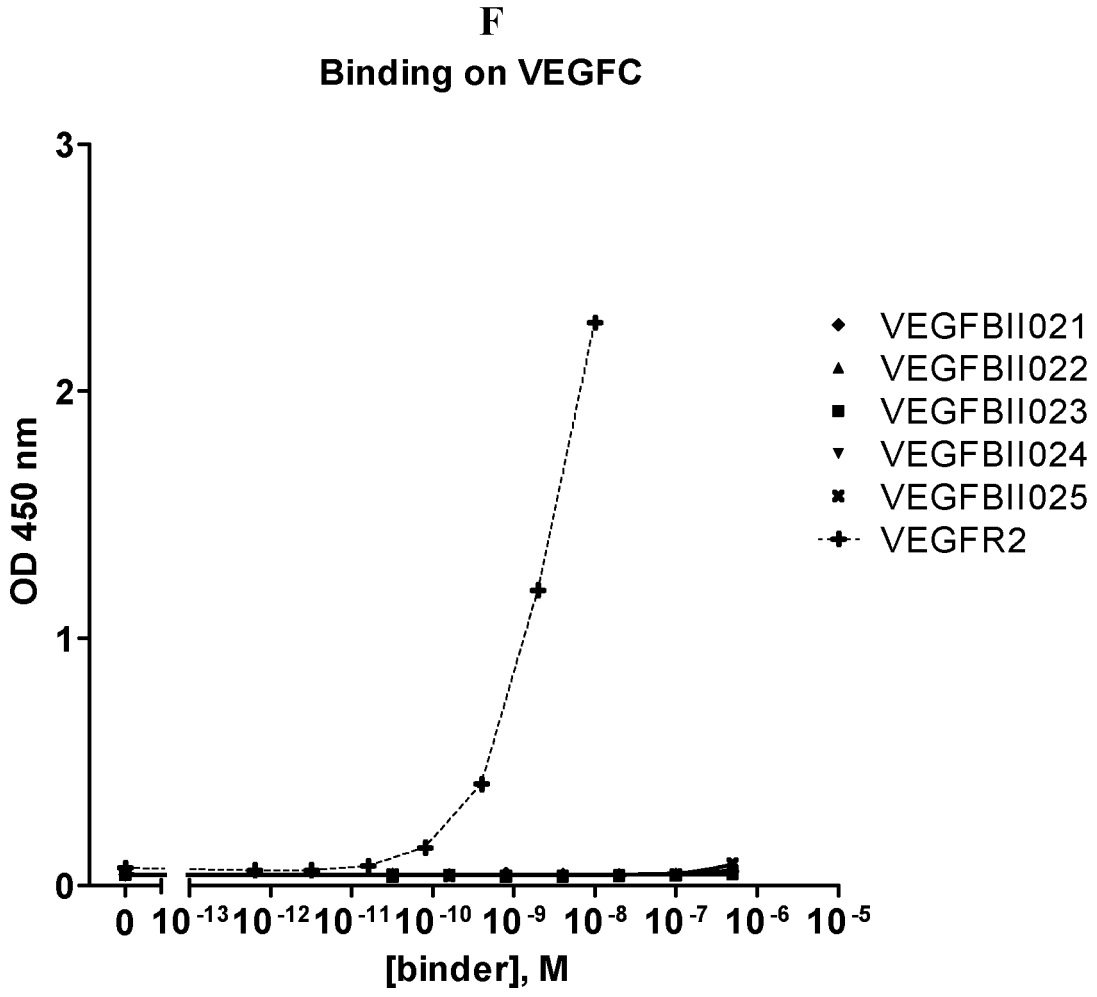

F
Binding on VEGFC
OD 450 nm
3
2
1
0
0 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5
[binder], M
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
VEGFR2

Figure 14-7

G

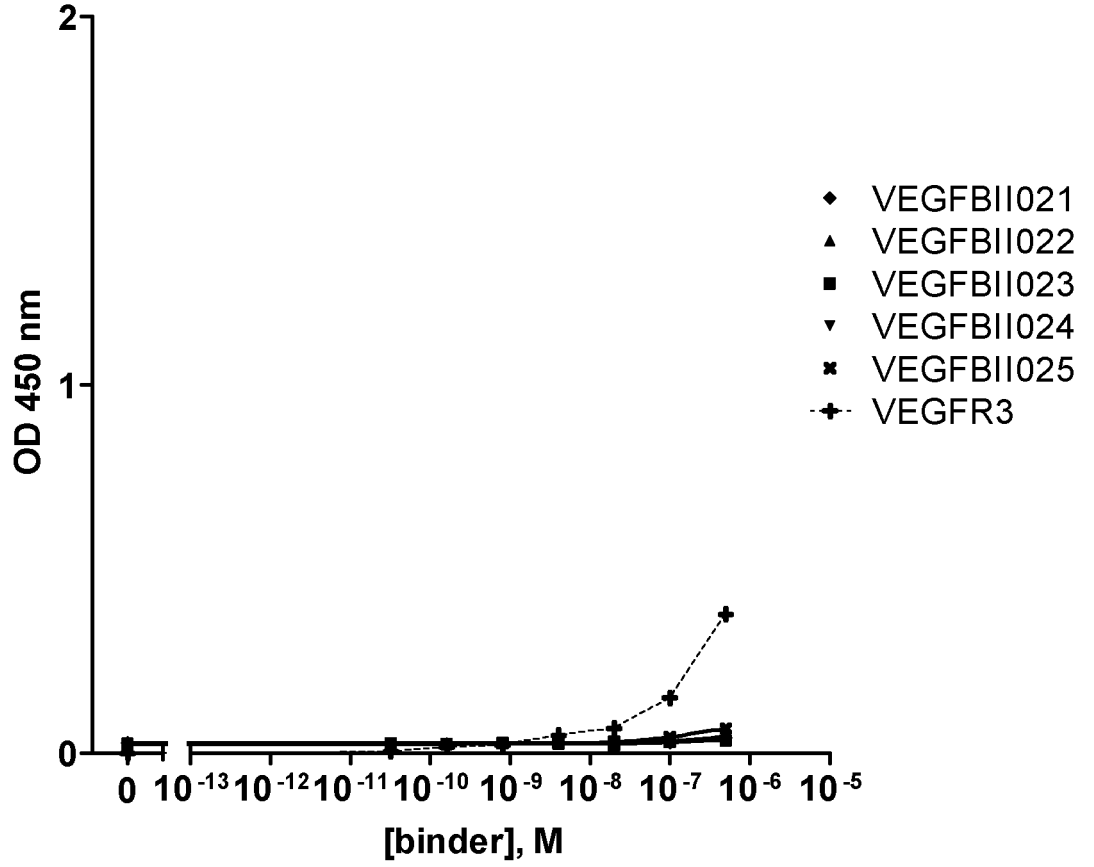

Binding on VEGF D
OD 450 nm
2
1
0
0 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5
[binder], M
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
VEGFR3

Figure 14-8

H

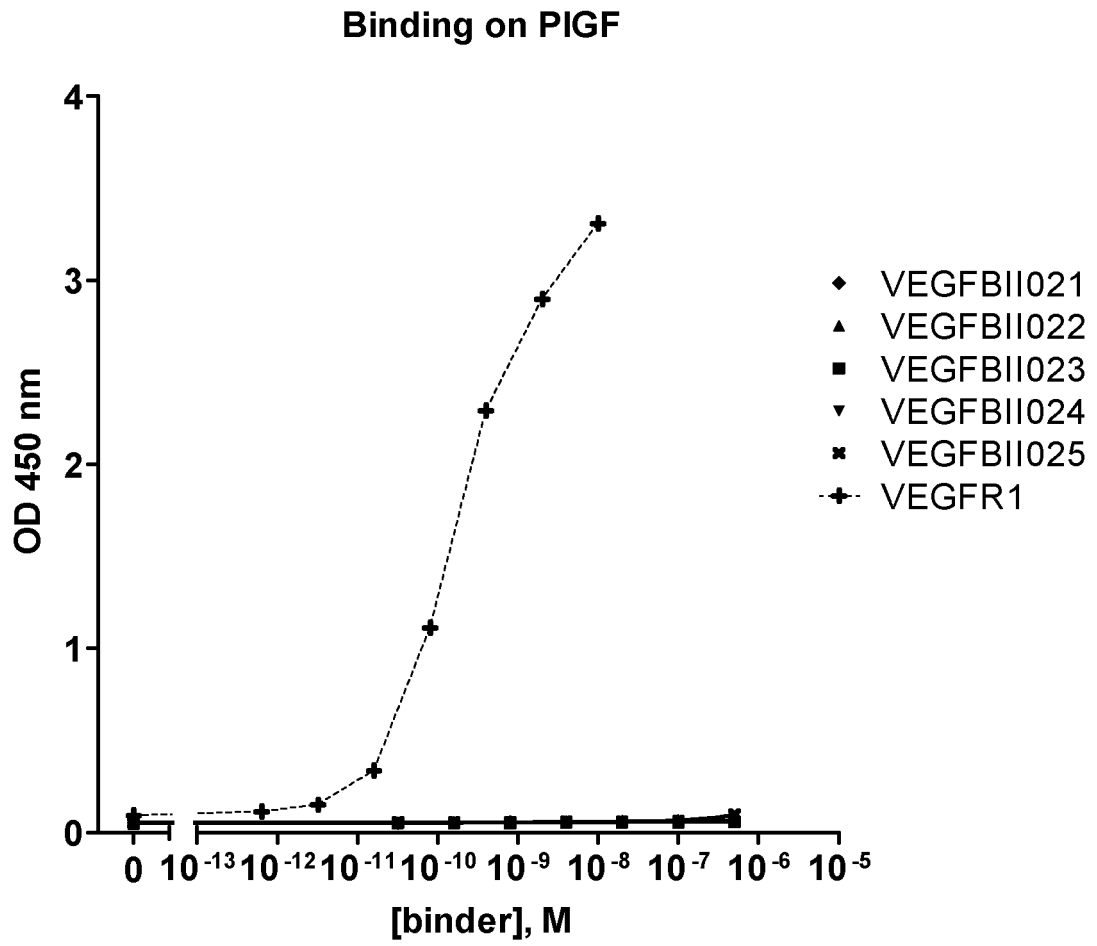

Binding on PlGF
OD 450 nm
4
3
2
1
0
0 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5
[binder], M
VEGFBII021
VEGFBII022
VEGFBII023
VEGFBII024
VEGFBII025
VEGFR1

Figure 15

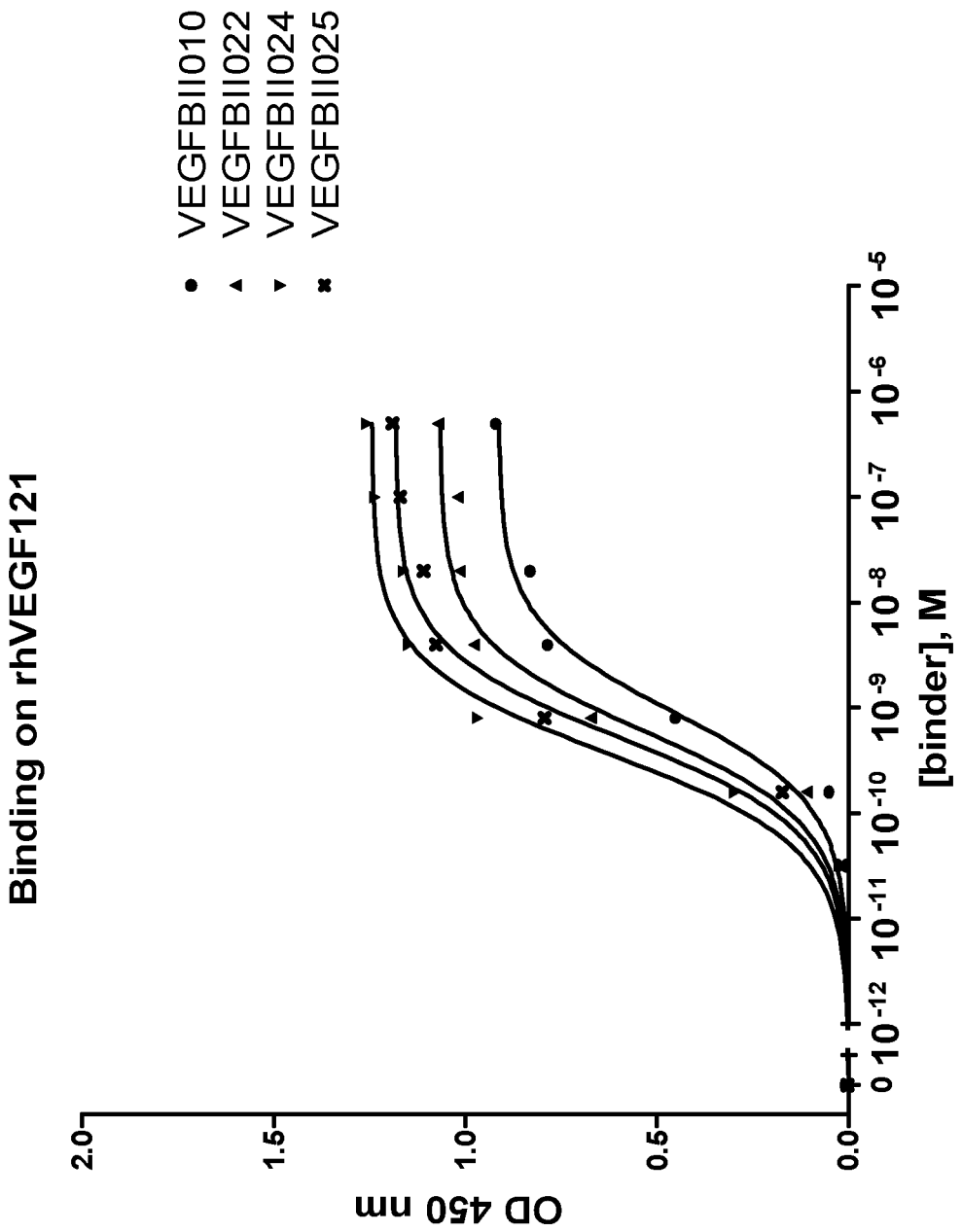

Binding on rhVEGF121
VEGFBII010
VEGFBII022
VEGFBII024
VEGFBII025
OD 450 nm
0.0
0.5
1.0
1.5
2.0
0
10-12
10-11
10-10
10-9
10-8
10-7
10-6
10-5
[binder], M

Figure 16

```
                10        20        30        40
                |.........|.........|.........|.........|
Kabat#      :   .....................|.....................|
VH3-23/JH5  :   EVQLVESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQA
VEGFBII23B04 :  ...............T.D.......EV..R.....S.G.F...

                50        60        70        80
                |.........|.........|.........|.........|
Kabat#      :   .....................|.....................|
VH3-23/JH5  :   PGKGLEWVSAISGSGGSTYYADSVKGRFTISRDNSKNTLYL
VEGFBII23B04 :  Q..ER.F.V....-K..YK.DSV.LE.....K..A...V..

                90        100       110
                |.........|.........|abcdefghi.....|....
Kabat#      :   ..abc.....|.....................|
VH3-23/JH5  :   QMNSLRAEDTAVYYCAK----------WGQGTLVTVSS
VEGFBII23B04 :  .I...KP.....SSRAYGSSRLRLADTYEY.....Q.....
```

Figure 17

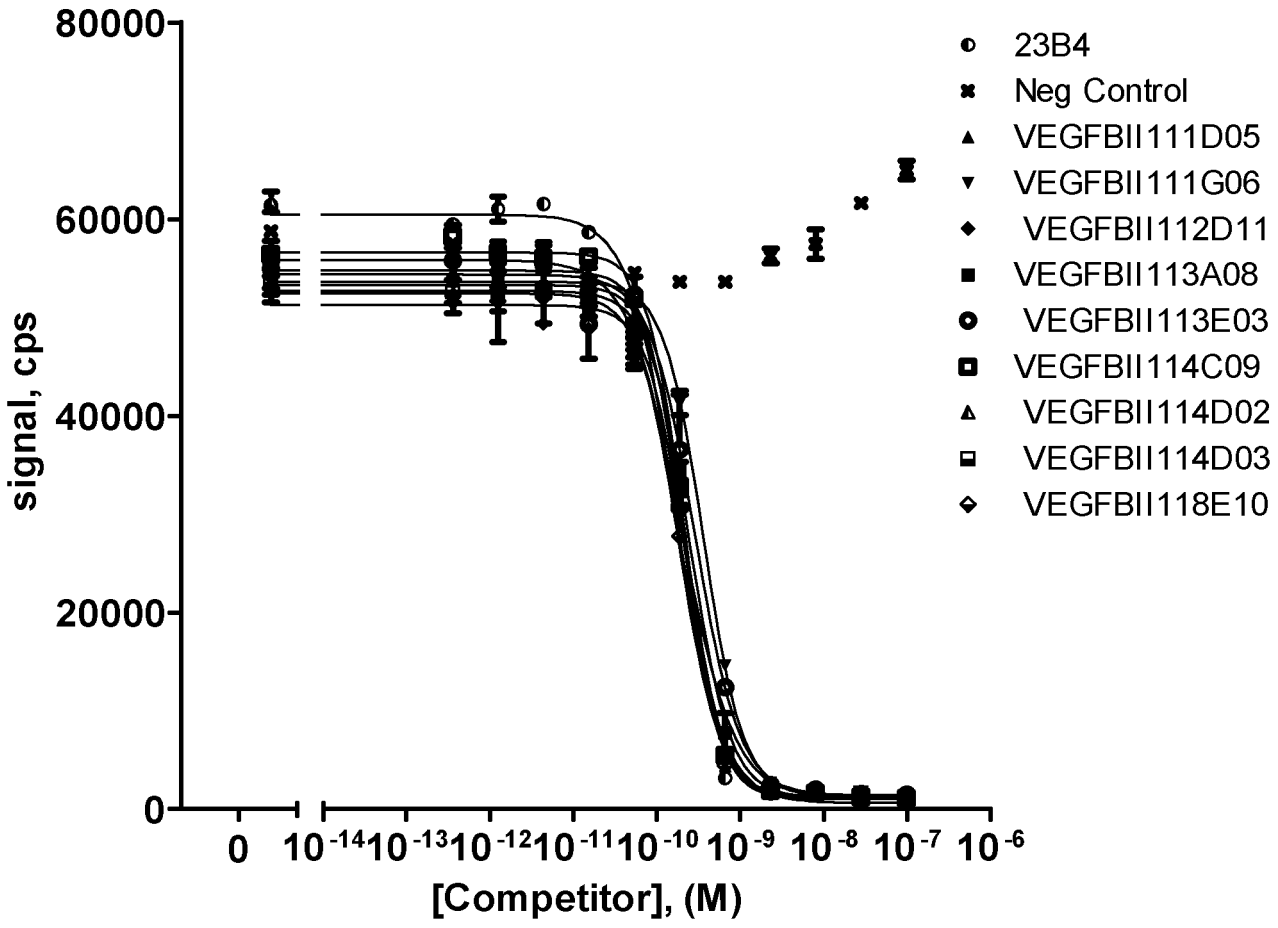

80000
60000
40000
20000
0
signal, cps
0
10-14
10-13
10-12
10-11
10-10
10-9
10-8
10-7
10-6
[Competitor], (M)
23B4
Neg Control
VEGFBII111D05
VEGFBII111G06
VEGFBII112D11
VEGFBII113A08
VEGFBII113E03
VEGFBII114C09
VEGFBII114D02
VEGFBII114D03
VEGFBII118E10

Figure 18

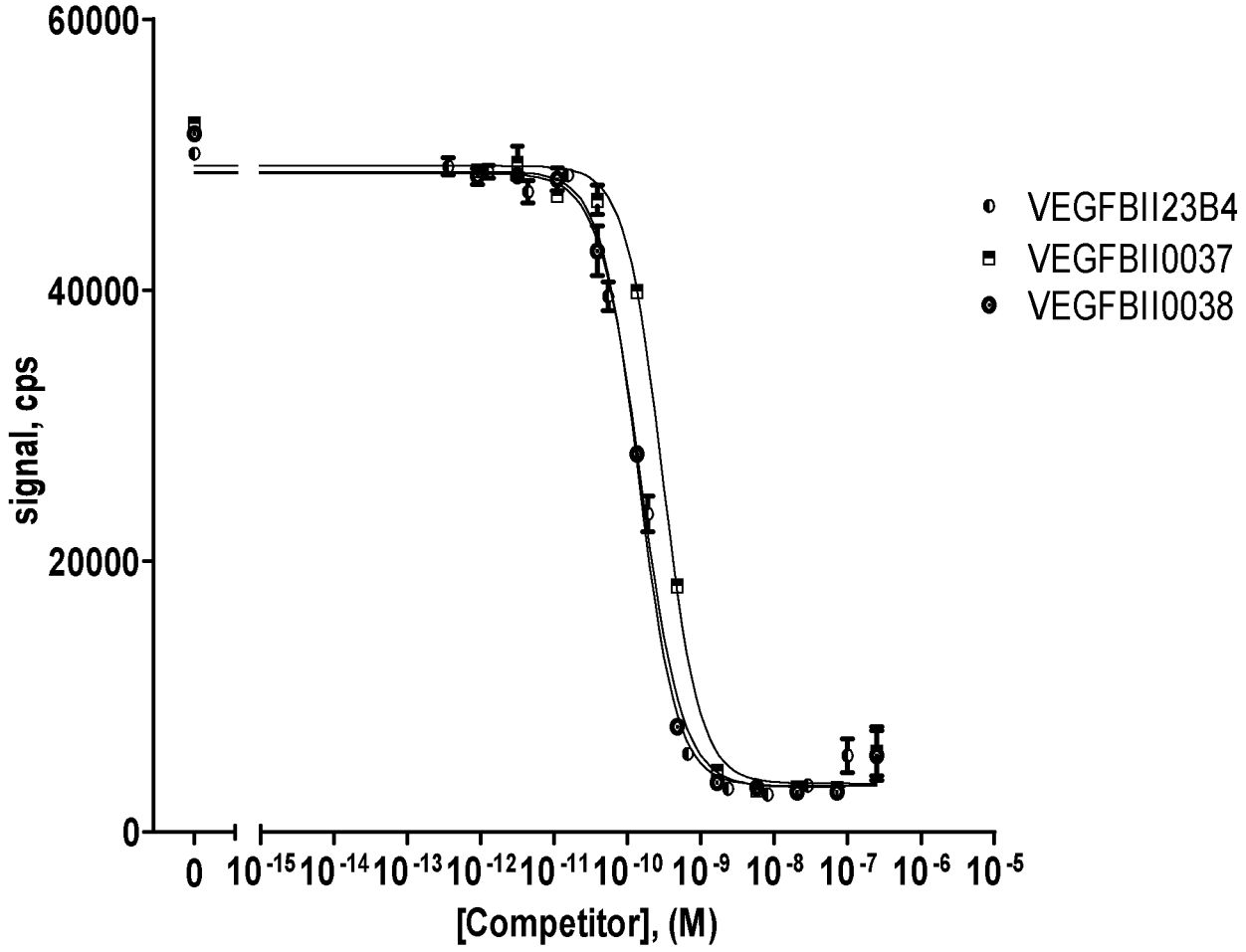

60000
40000
20000
0
signal, cps
0 10-15 10-14 10-13 10-12 10-11 10-10 10-9 10-8 10-7 10-6 10-5
[Competitor], (M)
VEGFBII23B4
VEGFBII0037
VEGFBII0038

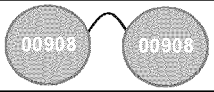
Figure 19

```
                10        20        30        40
                :.........|.........|.........|.........|
Kabat#          :.........|.........|.........|.........|
VH3-23/JH5      : EVQLVESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQA
PVEGFBIIPMP5B5  : .....................V...IR.MSM.=-.Y...

                        50        60        70        80
                :.......|..a.....|.........|.........|
Kabat#          :.......|..a.....|.........|.........|
VH3-23/JH5      : PGKGLEWVSAISGSGGSTYYADSVKGRFTISRDNSKNTLYL
PVEGFBIIPMP5B5  : ...HR.L.AR..-...T.A.V.................V..

                              90        101       110
                :..abc.....|.........|.........|.........|...
Kabat#          :..abc.....|.........|.........|.........|...
VH3-23/JH5      : QMNSLRAEDTAVYYCAK----------WGQGTLVTVSS
PVEGFBIIPMP5B5  : .....KA.........NTFSSRPNP..A..Q.....
```

Figure 20

VHH ID	Format	Description
ANGBII00001		1D01-9gs-1D01
ANGBII00002		1D01-40gs-1D01
ANGBII00003		11B07-9gs-11B07
ANGBII00004		00027-9gs-00027
ANGBII00005		00027-40gs-00027
ANGBII00006		00908-9gs-00908

Legend:

	Description
	1D01
	11B07
	00027
	00908
	*9 GlySer* linker
	*40 GlySer* linker

Figure 21-1A

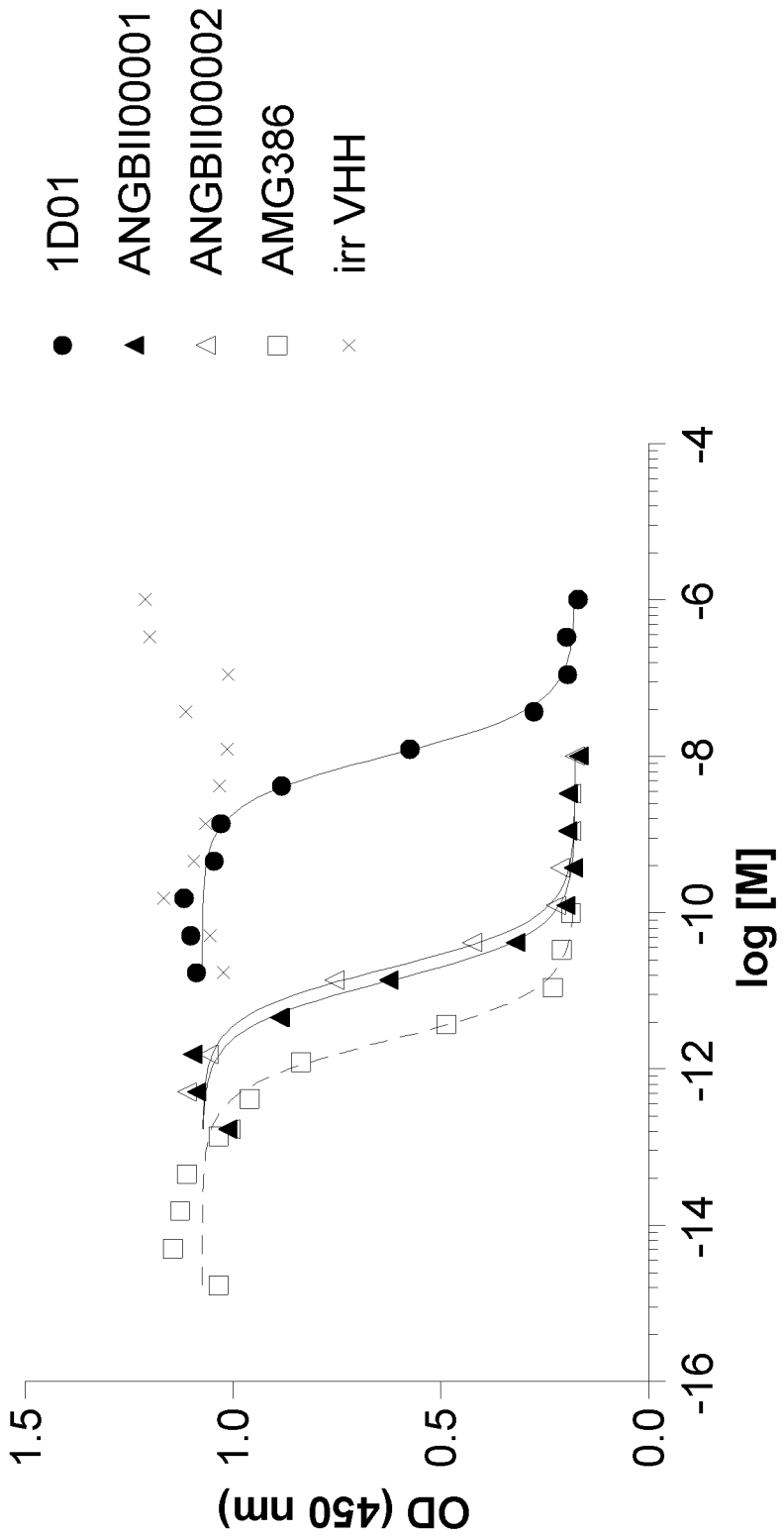

1D01
ANGBII00001
ANGBII00002
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
-4
-6
-8
-10
-12
-14
-16
log [M]

Figure 21-1B

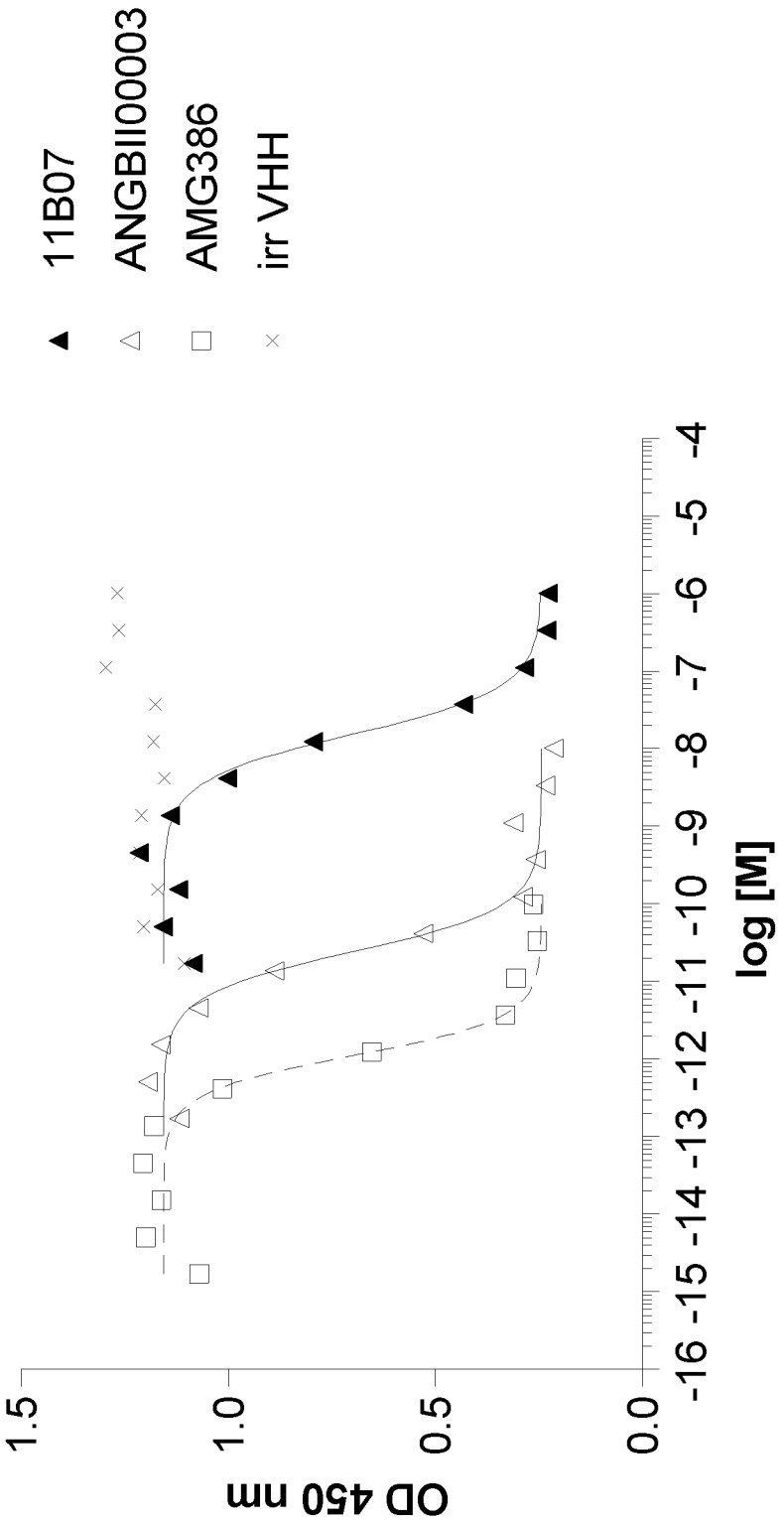

11B07
ANGBII00003
AMG386
irr VHH
OD 450 nm
1.5
1.0
0.5
0.0
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4
log [M]

Figure 21-1C

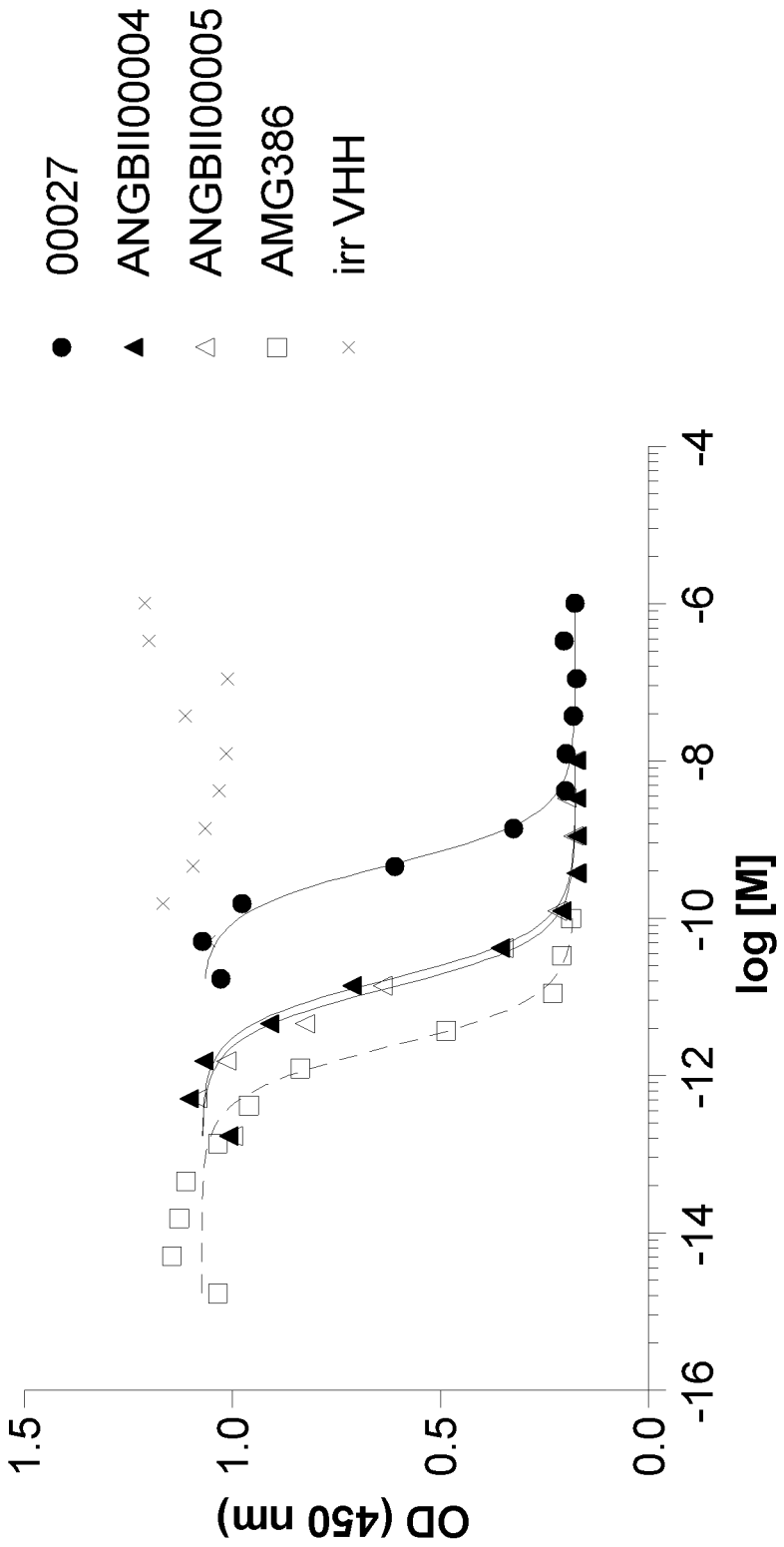

00027
ANGBII00004
ANGBII00005
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
-4
-6
-8
-10
-12
-14
-16
log [M]

Figure 21-1D

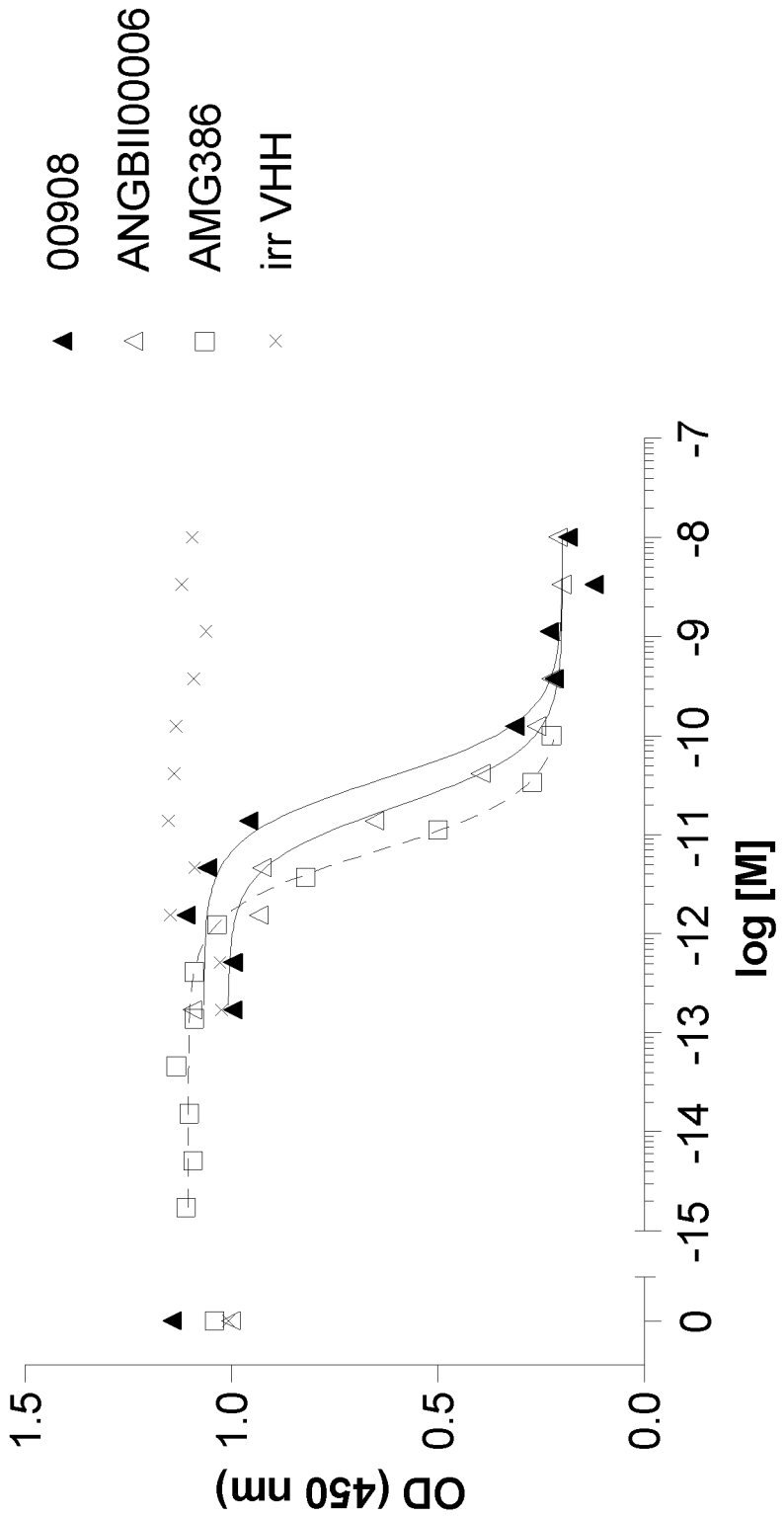

00908
ANGBII00006
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
log [M]

Figure 21-2A

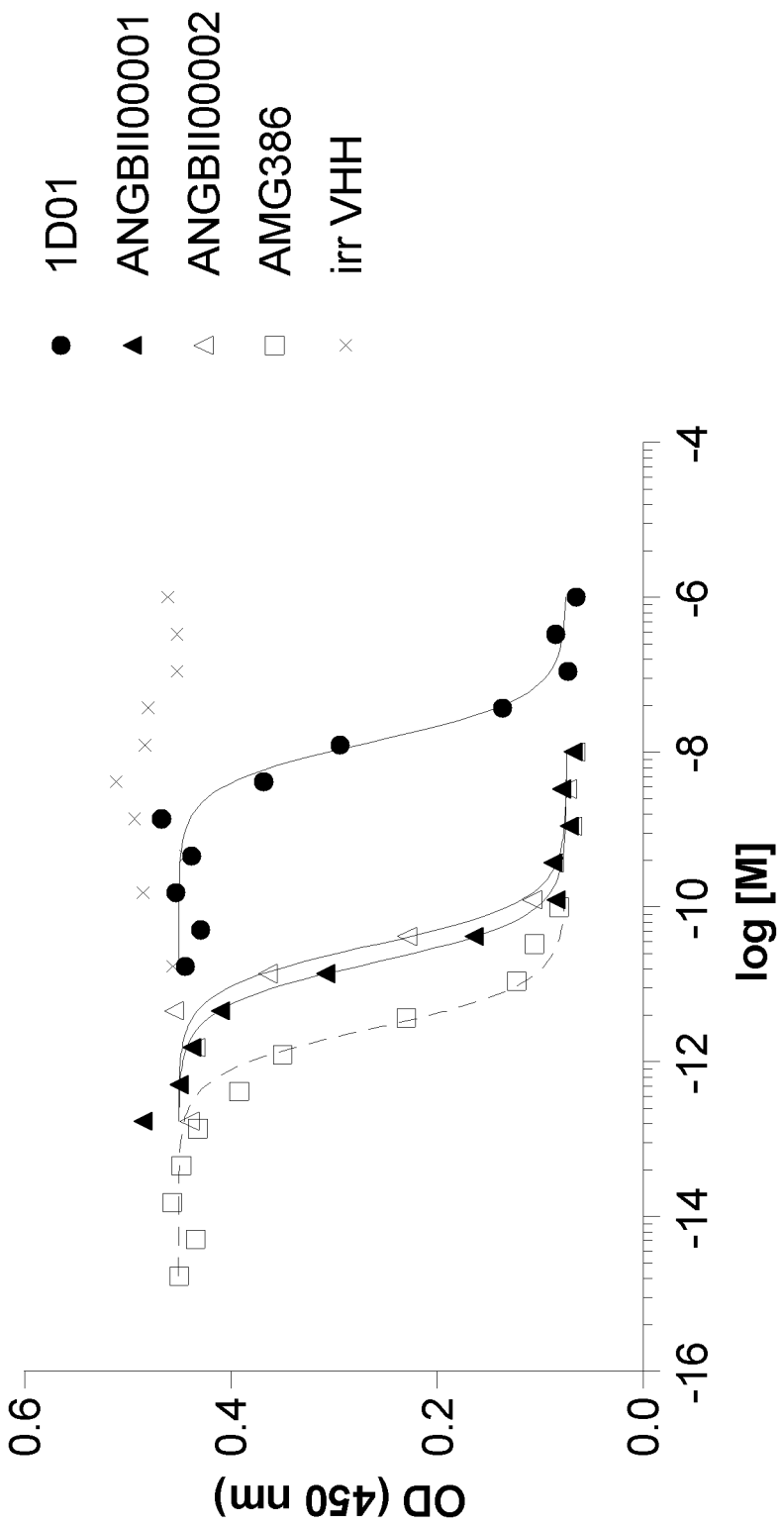

1D01
ANGBII00001
ANGBII00002
AMG386
irr VHH
OD (450 nm)
0.0
0.2
0.4
0.6
log [M]
-4
-6
-8
-10
-12
-14
-16

Figure 21-2B

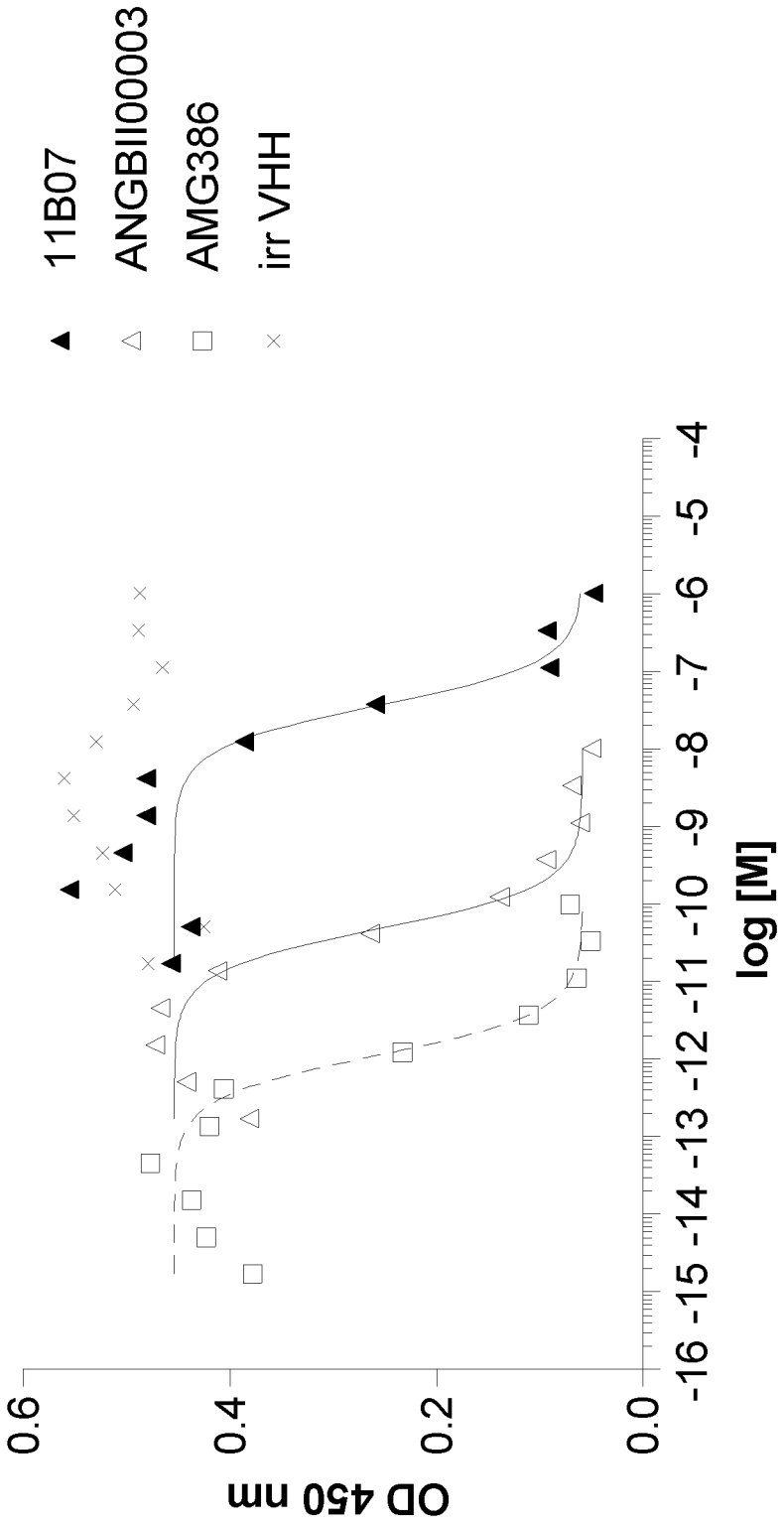

11B07
ANGBII00003
AMG386
irr VHH
OD 450 nm
0.0
0.2
0.4
0.6
log [M]
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16

Figure 21-2C

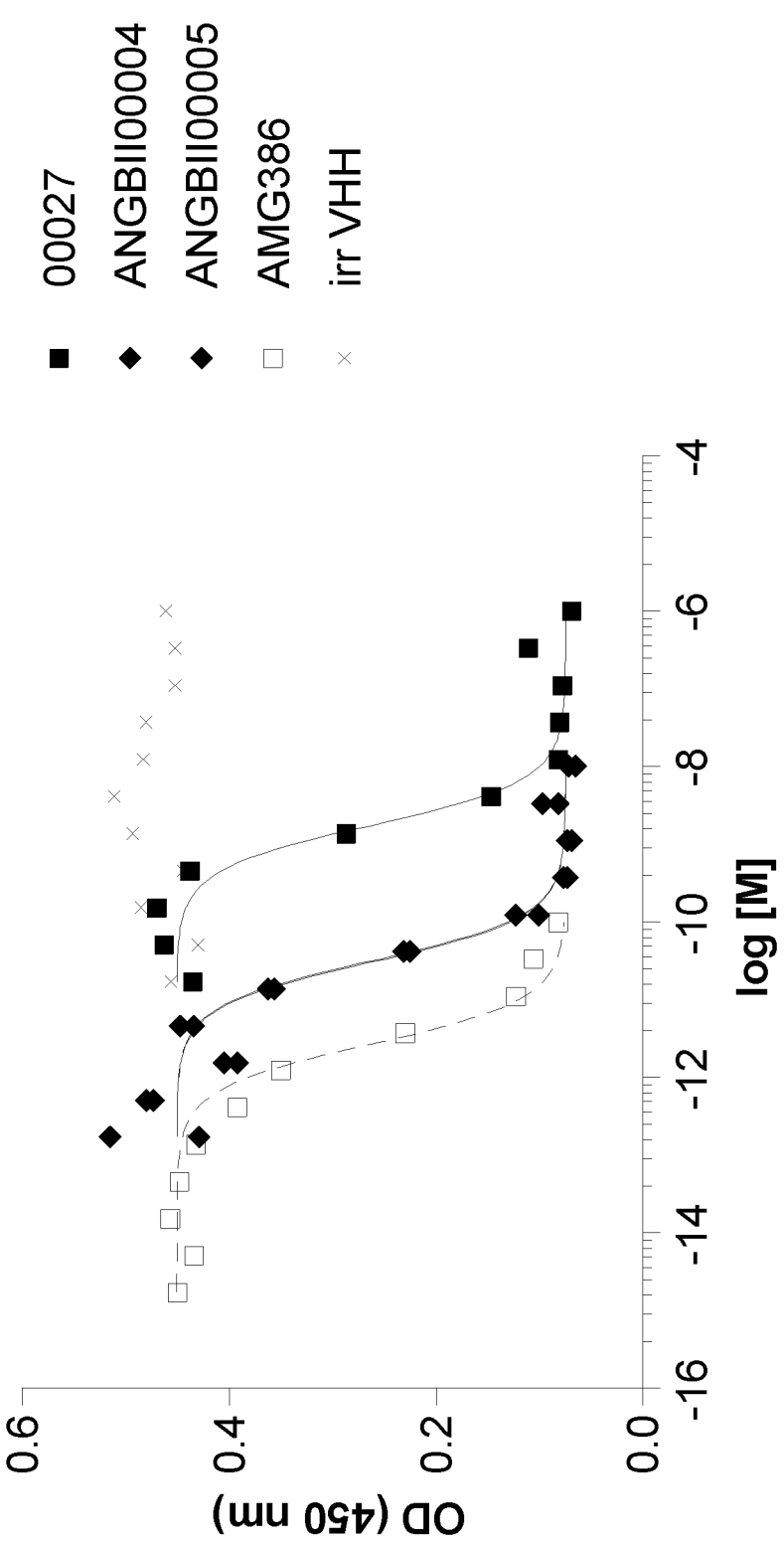

00027
ANGBII00004
ANGBII00005
AMG386
irr VHH
OD (450 nm)
0.0
0.2
0.4
0.6
log [M]
-4
-6
-8
-10
-12
-14
-16

Figure 21-2D

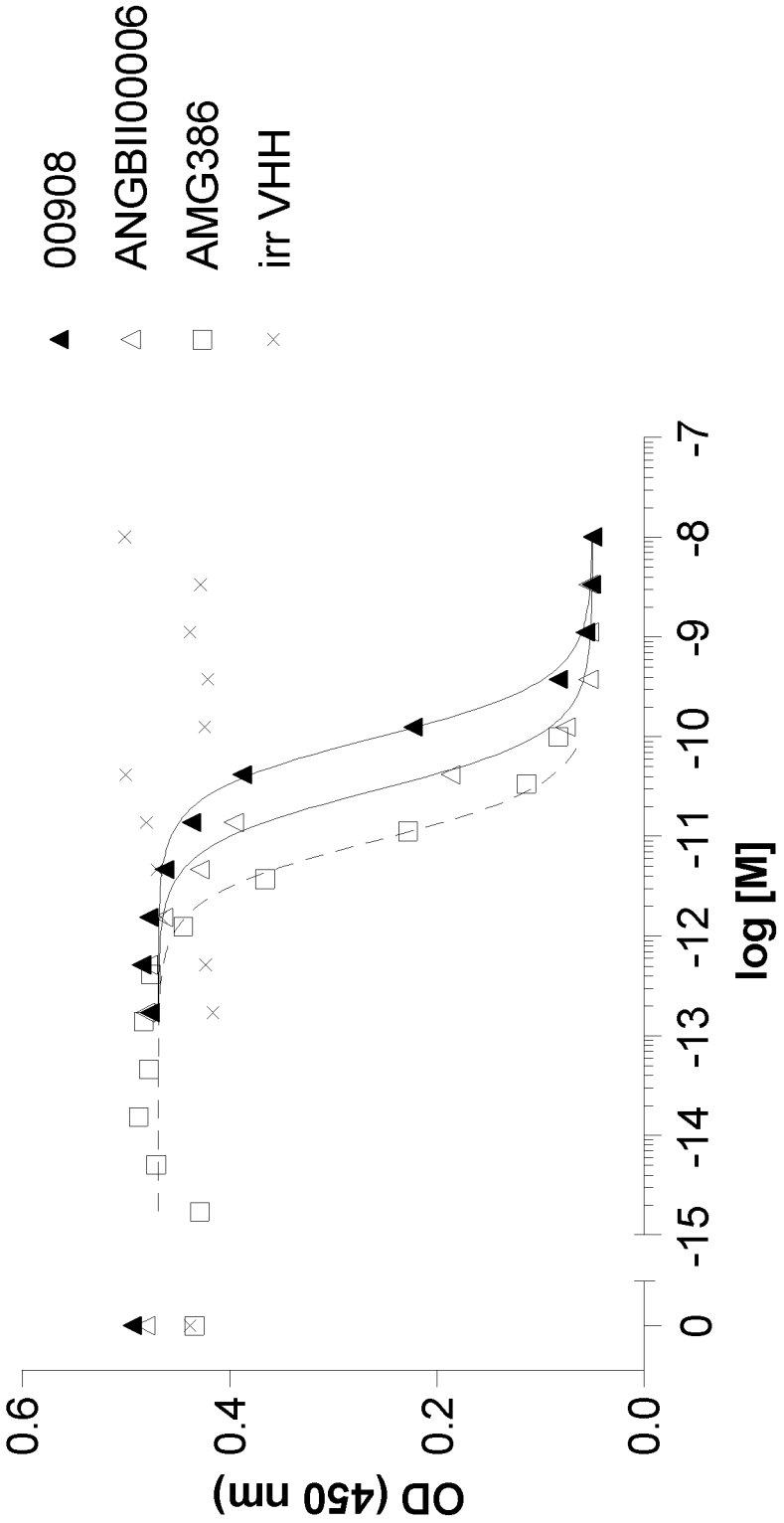

00908
ANGBII00006
AMG386
irr VHH
OD (450 nm)
0.0
0.2
0.4
0.6
log [M]
0
-15
-14
-13
-12
-11
-10
-9
-8
-7

Figure 21-3A

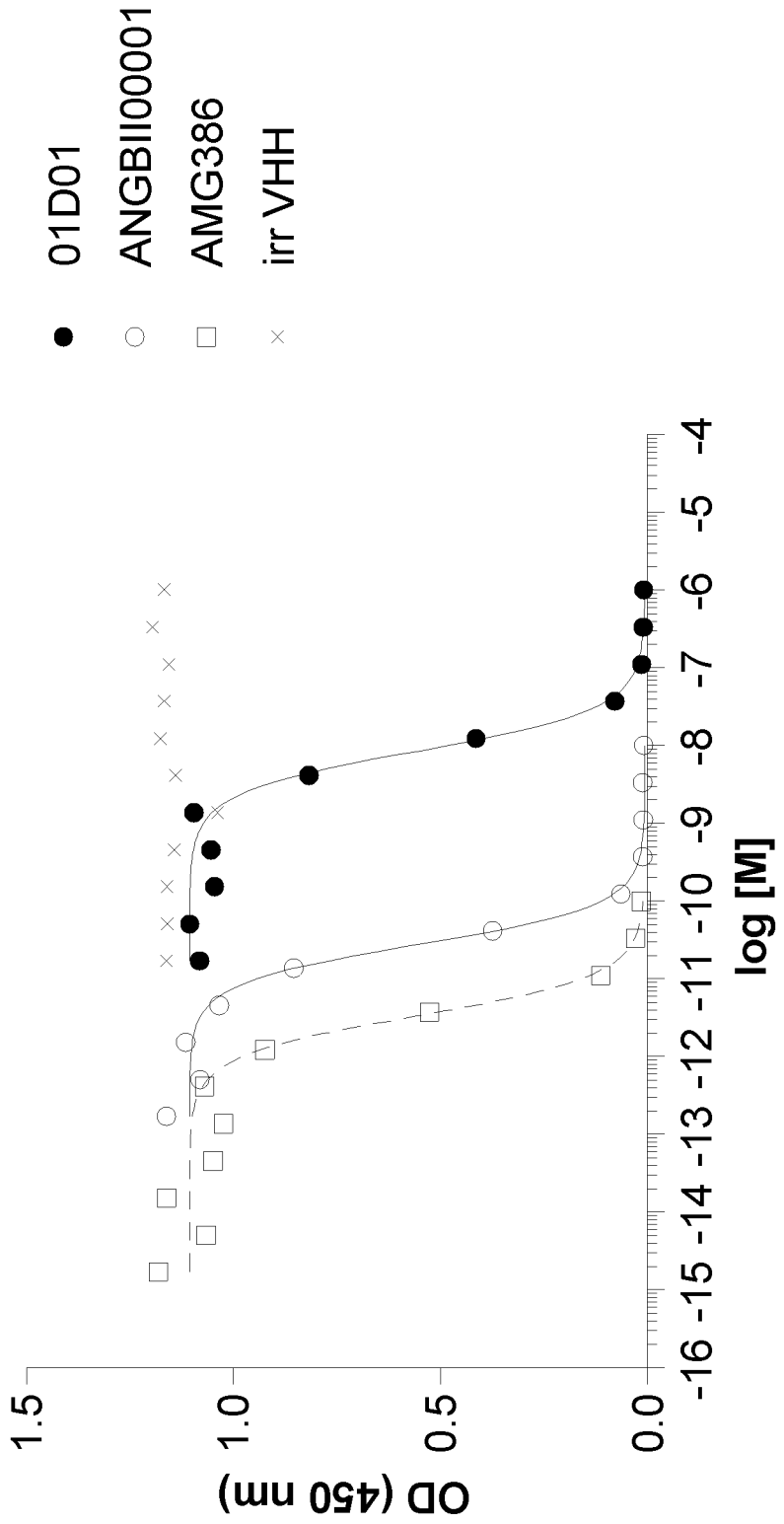

01D01
ANGBII00001
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
log [M]
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16

Figure 21-3B

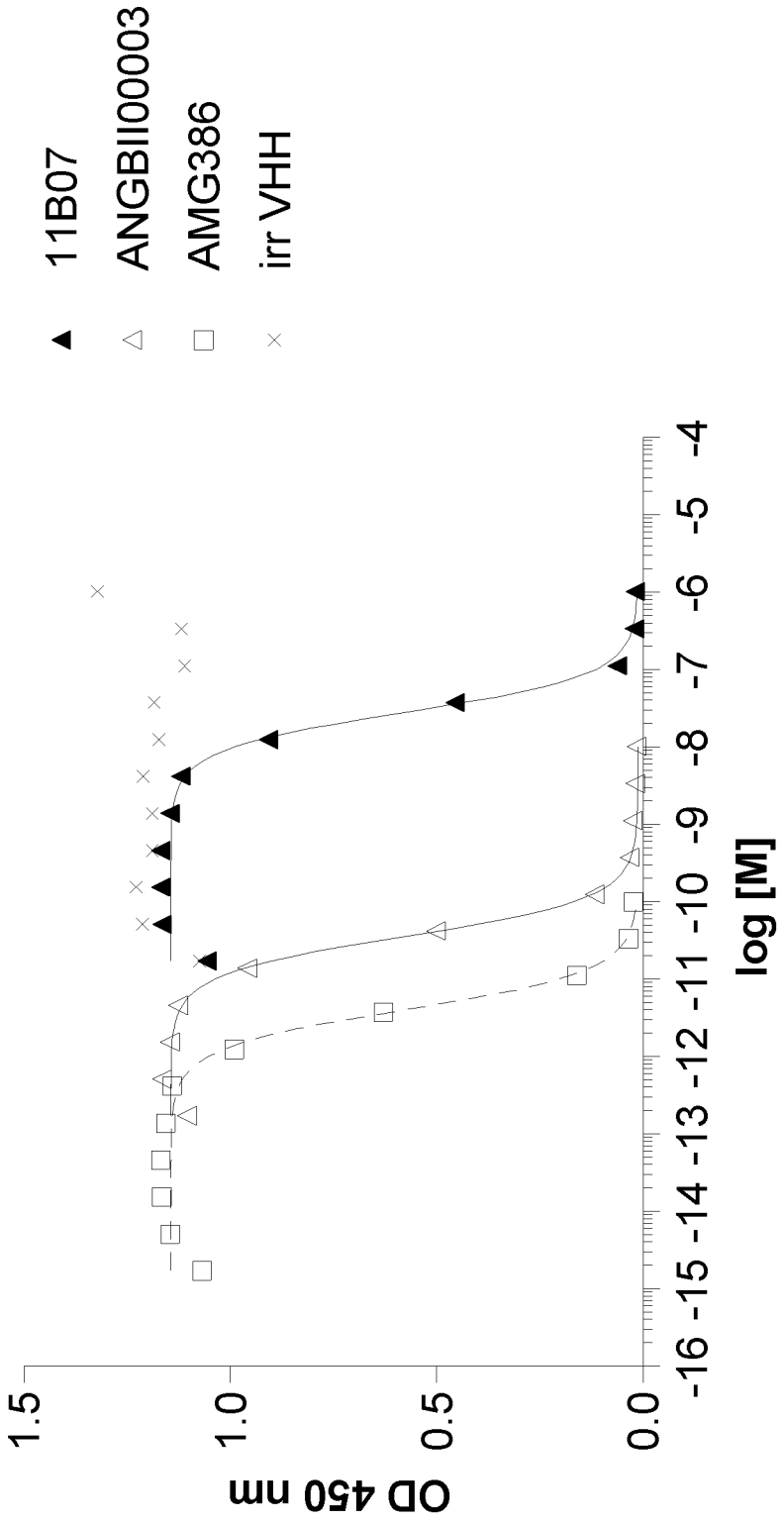

11B07
ANGBII00003
AMG386
irr VHH
OD 450 nm
1.5
1.0
0.5
0.0
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4
log [M]

Figure 21-3C

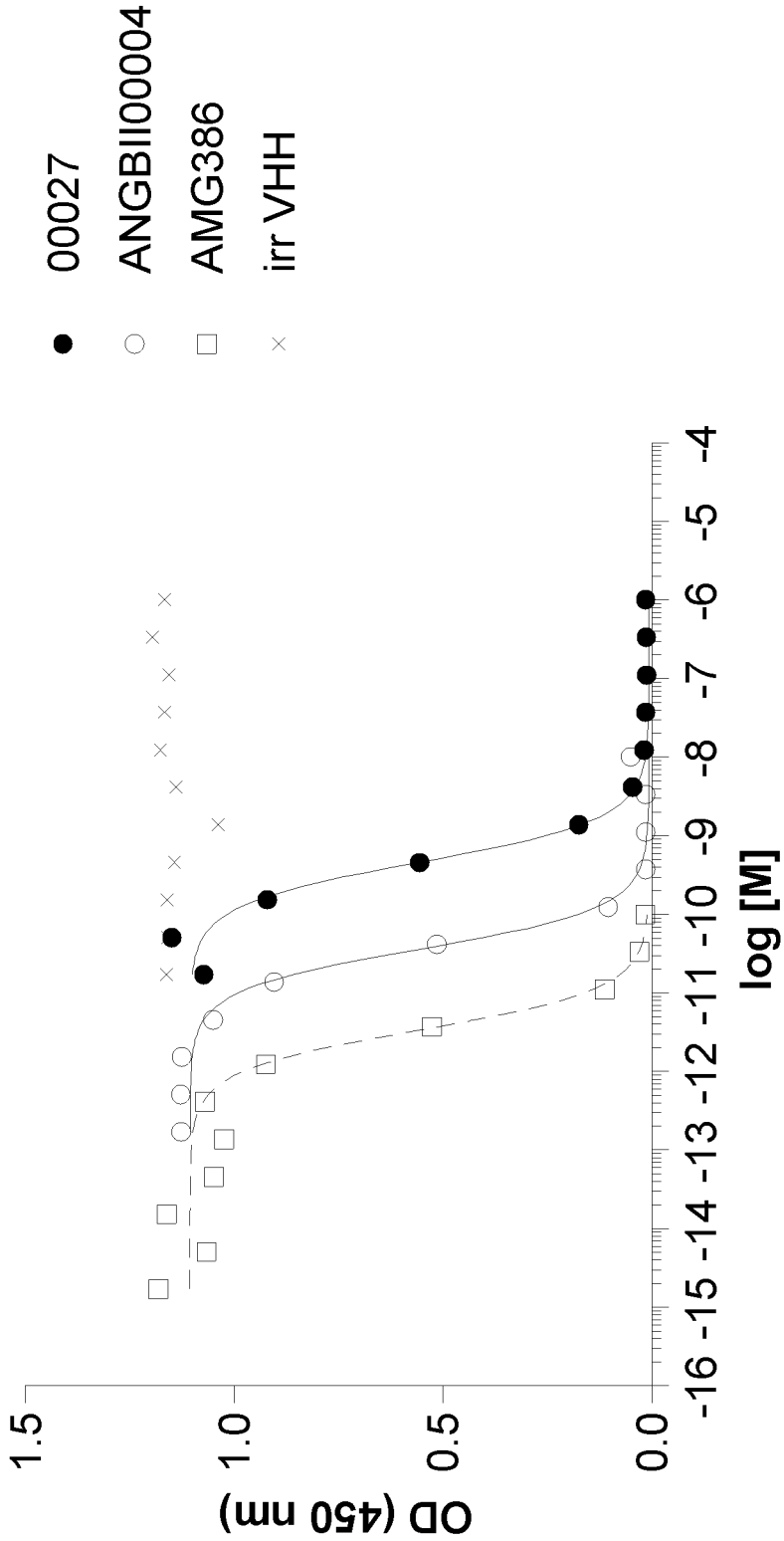

00027
ANGBII00004
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
log [M]
-4
-5
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
-16

Figure 21-3D

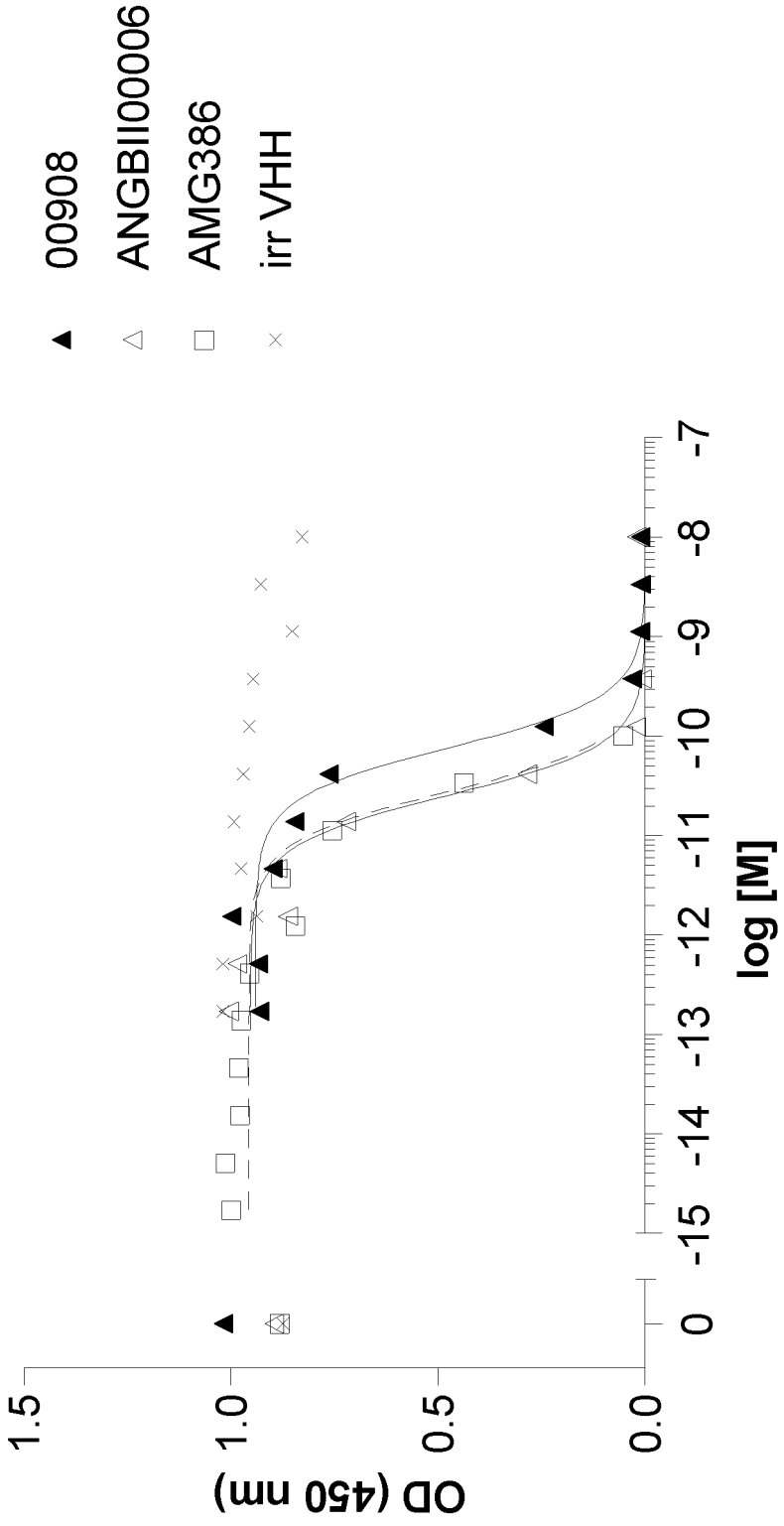

00908
ANGBII00006
AMG386
irr VHH
OD (450 nm)
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
log [M]

Figure 22

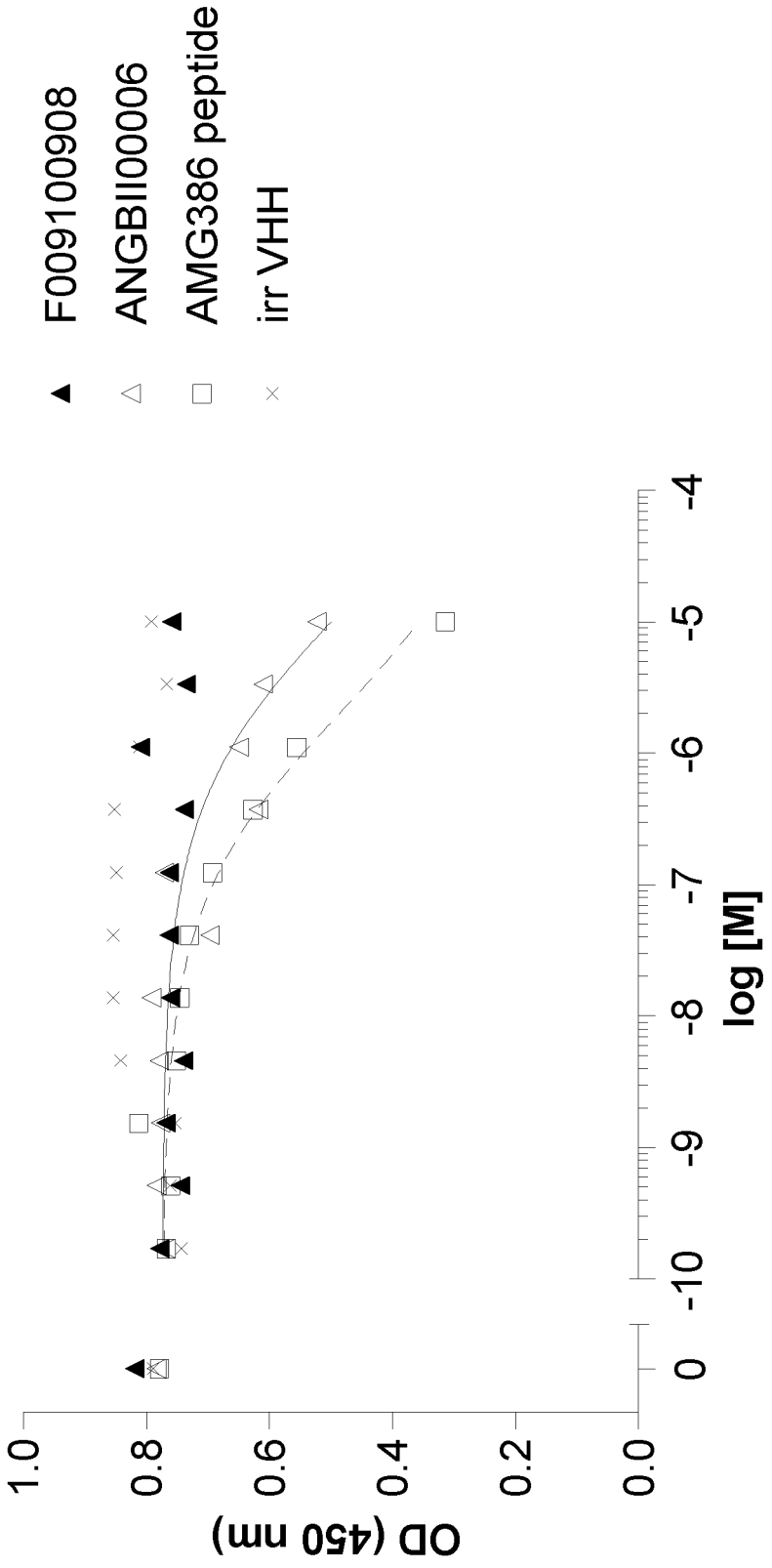

F009100908
ANGBII00006
AMG386 peptide
irr VHH
OD (450 nm)
1.0
0.8
0.6
0.4
0.2
0.0
0
-10
-9
-8
-7
-6
-5
-4
log [M]

Figure 23

VHH ID	Format	Description
VEGFANGBII00001		VEGFBII00038-9gs-ALB11-9gs-00027
VEGFANGBII00002		00027-9gs-ALB11-9gs-VEGFBII00038
VEGFANGBII00003		00027-9gs-VEGFBII00038-9gs-ALB11
VEGFANGBII00004		VEGFBII00038-*AAA*-ALB11-*AAA*-00027

Legend:

	Description
	VEGFBII00038
	00027
	ALB11
AAA	*triple Ala* linker
	*9 GlySer* linker

Figure 24A

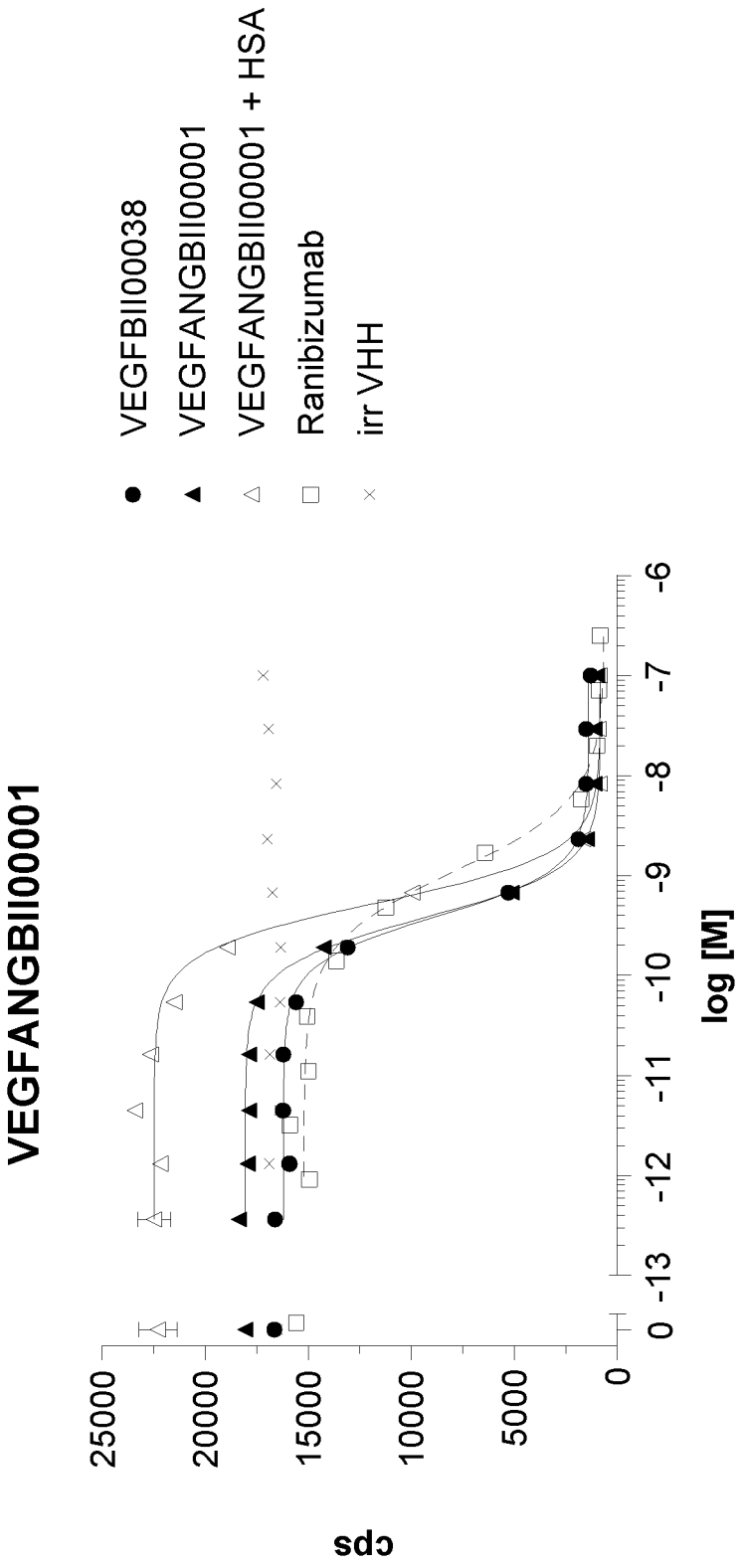

VEGFBII00038
VEGFANGBII00001
VEGFANGBII00001 + HSA
Ranibizumab
irr VHH
VEGFANGBII00001
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 24B

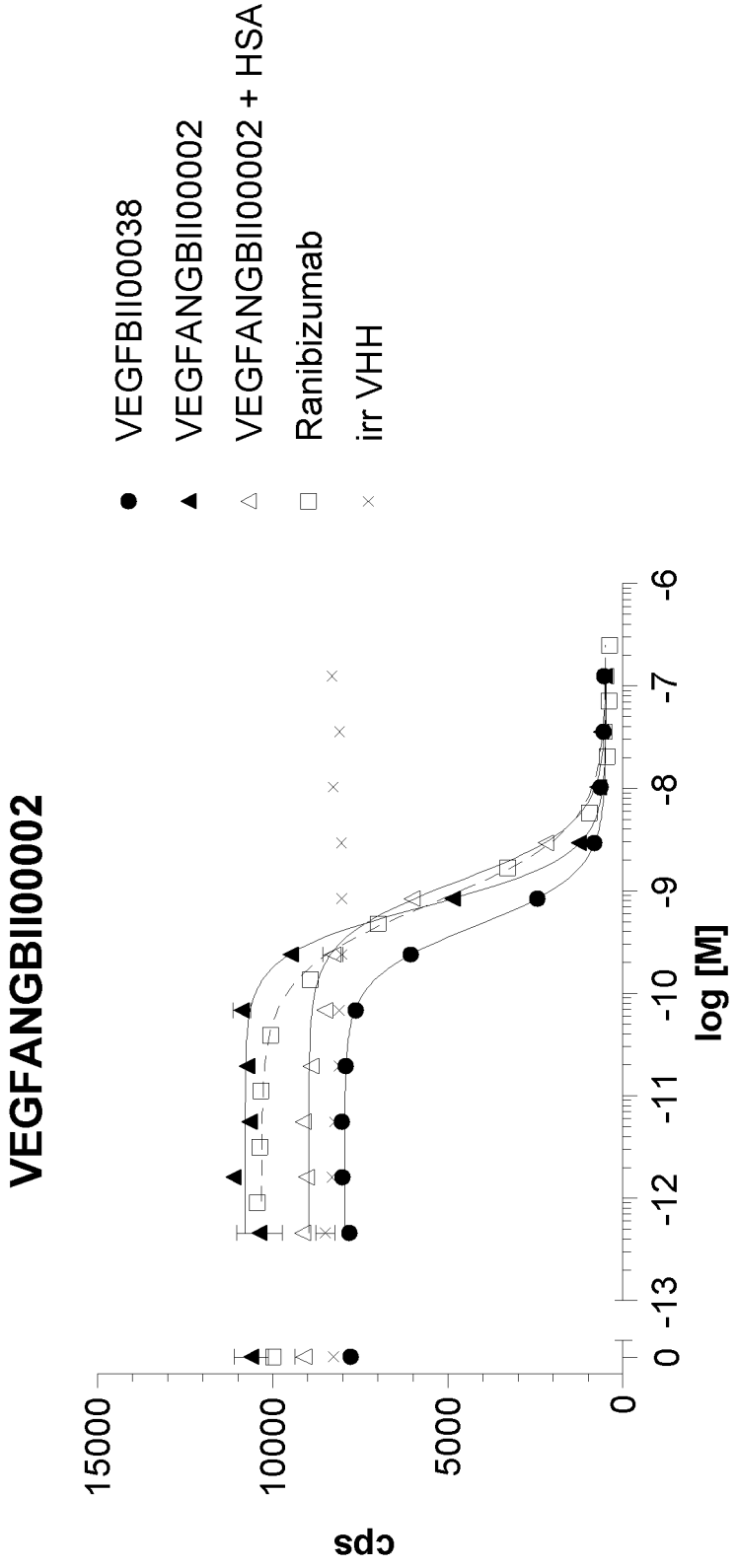

VEGFBII00038
VEGFANGBII00002
VEGFANGBII00002 + HSA
Ranibizumab
irr VHH
VEGFANGBII00002
cps
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 24C

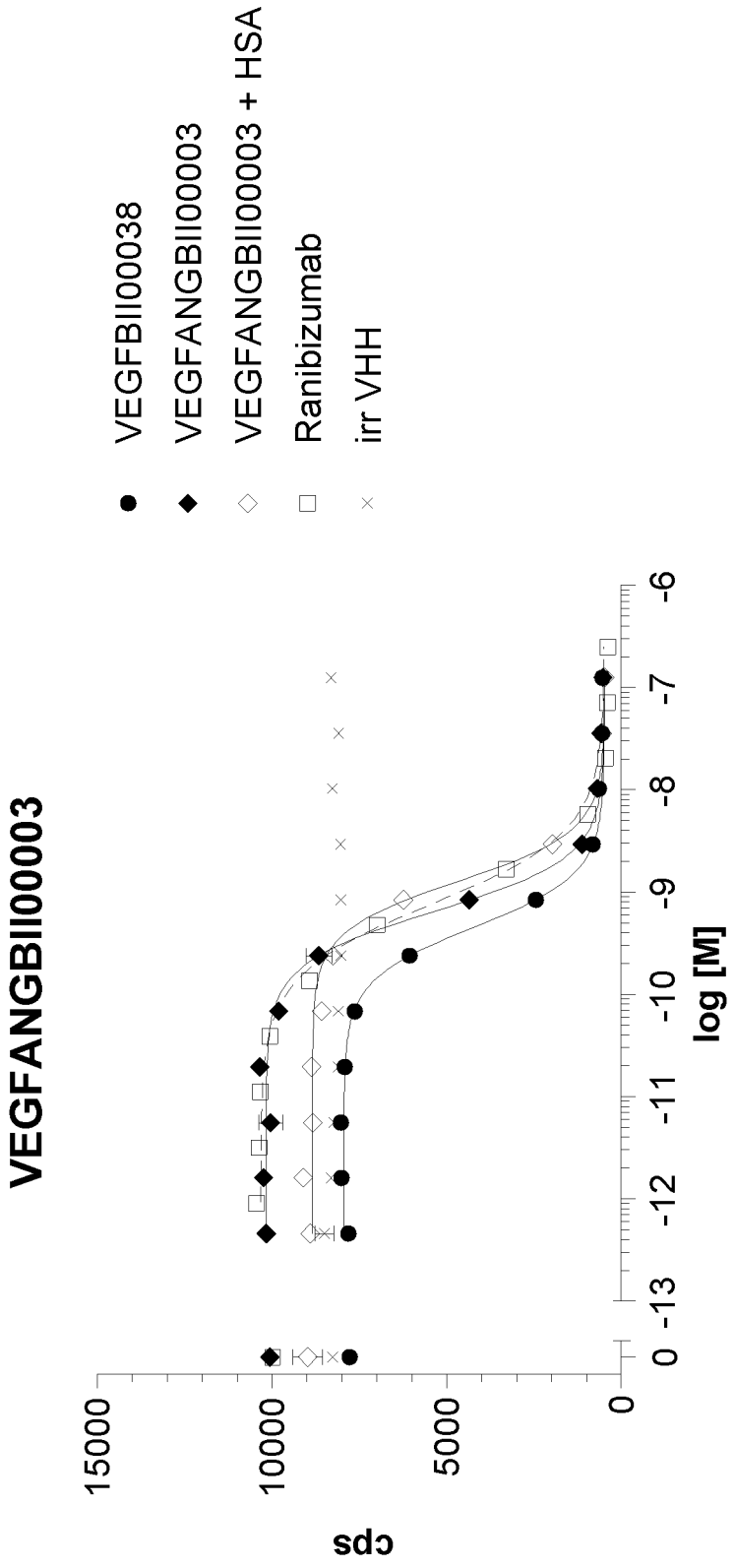

VEGFBII00038
VEGFANGBII00003
VEGFANGBII00003 + HSA
Ranibizumab
irr VHH
VEGFANGBII00003
cps
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 24D

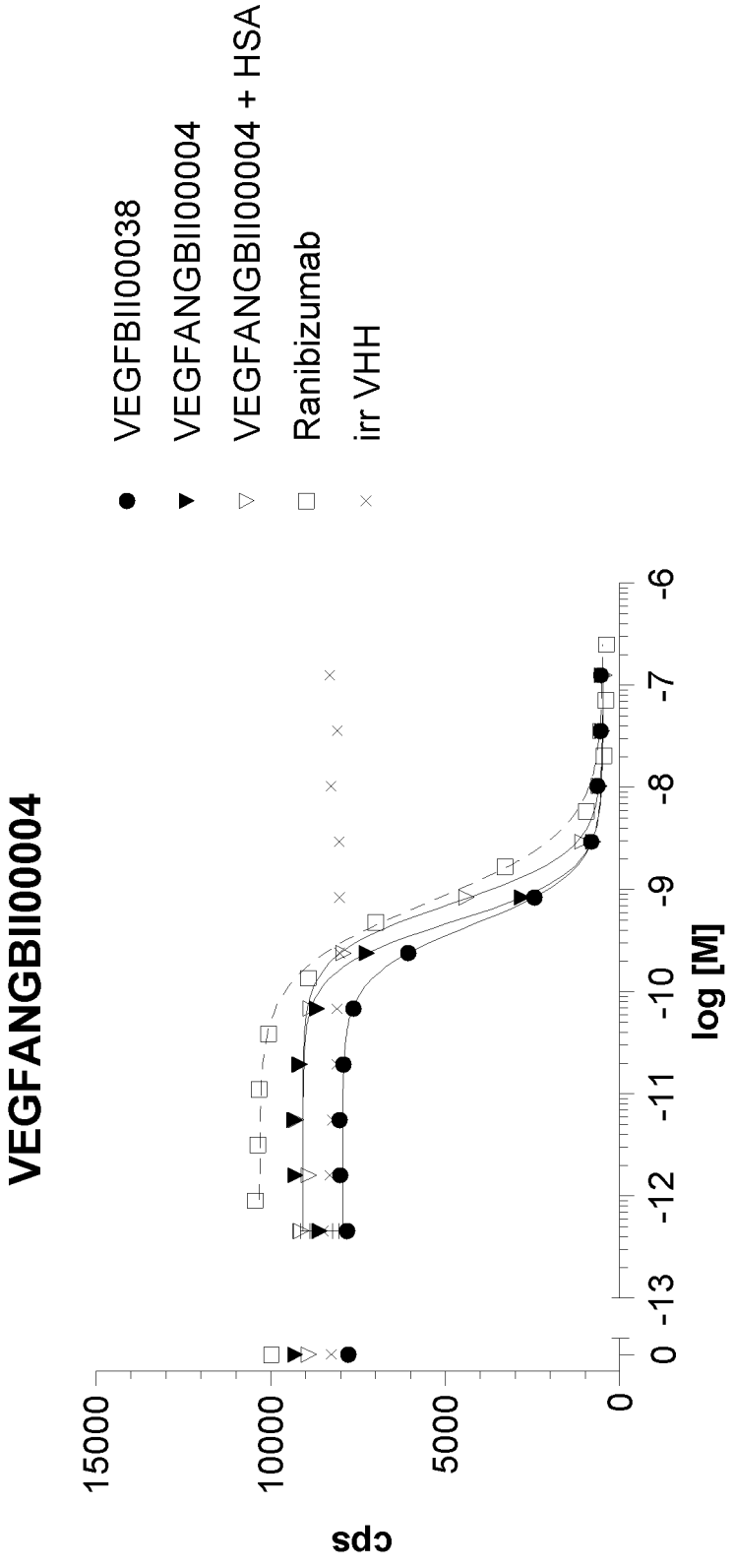

VEGFBII00038
VEGFANGBII00004
VEGFANGBII00004 + HSA
Ranibizumab
irr VHH
VEGFANGBII00004
cps
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 25A

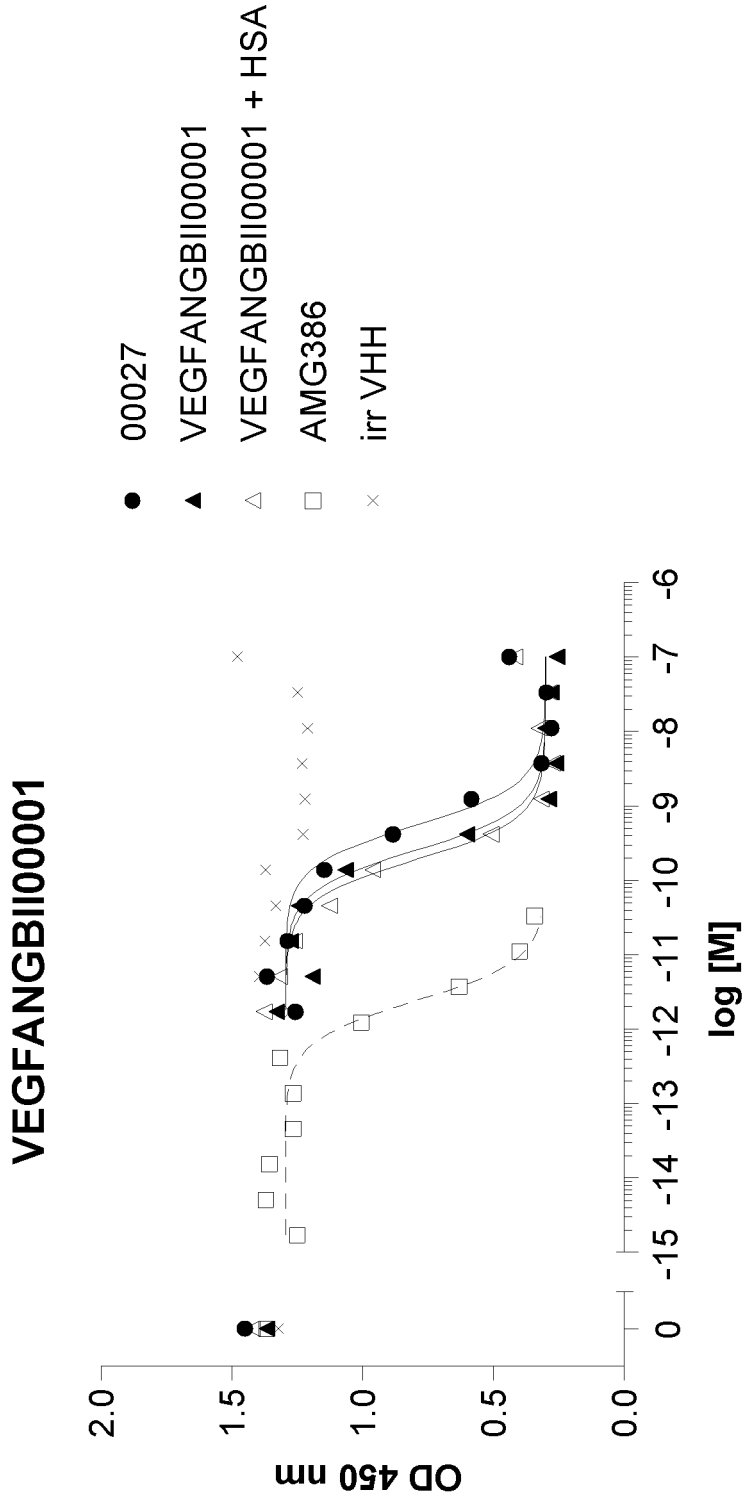

VEGFANGBII00001
00027
VEGFANGBII00001
VEGFANGBII00001 + HSA
AMG386
irr VHH
OD 450 nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 25B

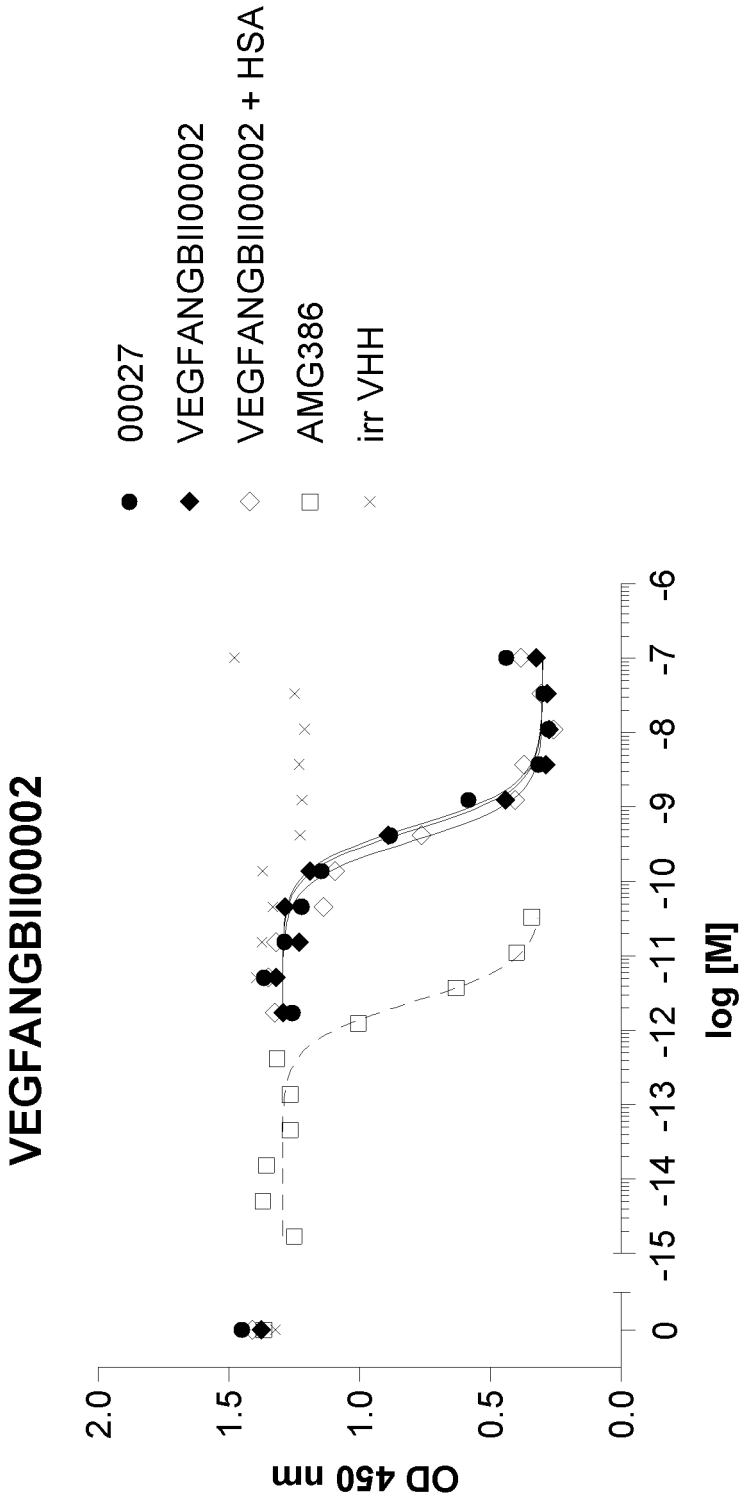

VEGFANGBII00002
00027
VEGFANGBII00002
VEGFANGBII00002 + HSA
AMG386
irr VHH
OD 450 nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 25C

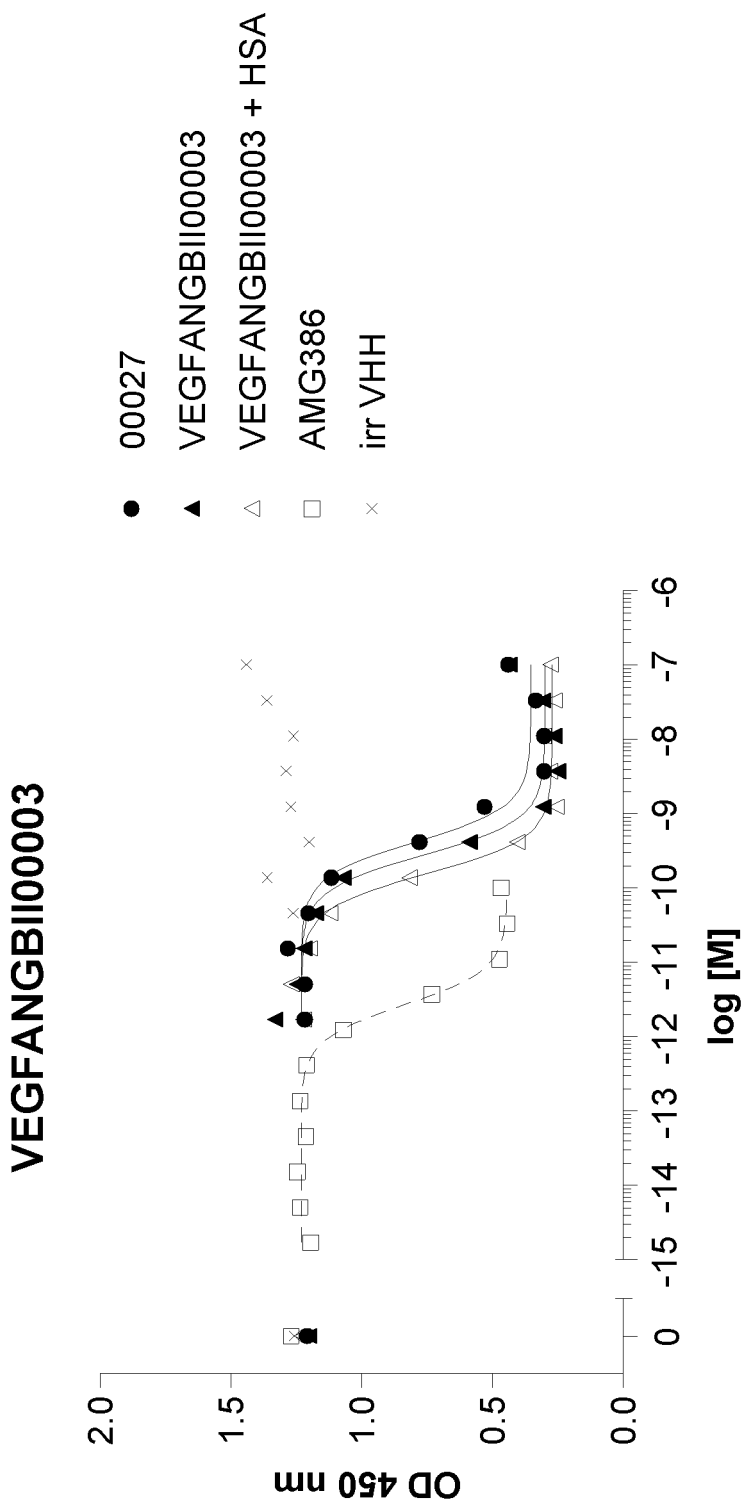

VEGFANGBII00003
00027
VEGFANGBII00003
VEGFANGBII00003 + HSA
AMG386
irr VHH
OD 450 nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 25D

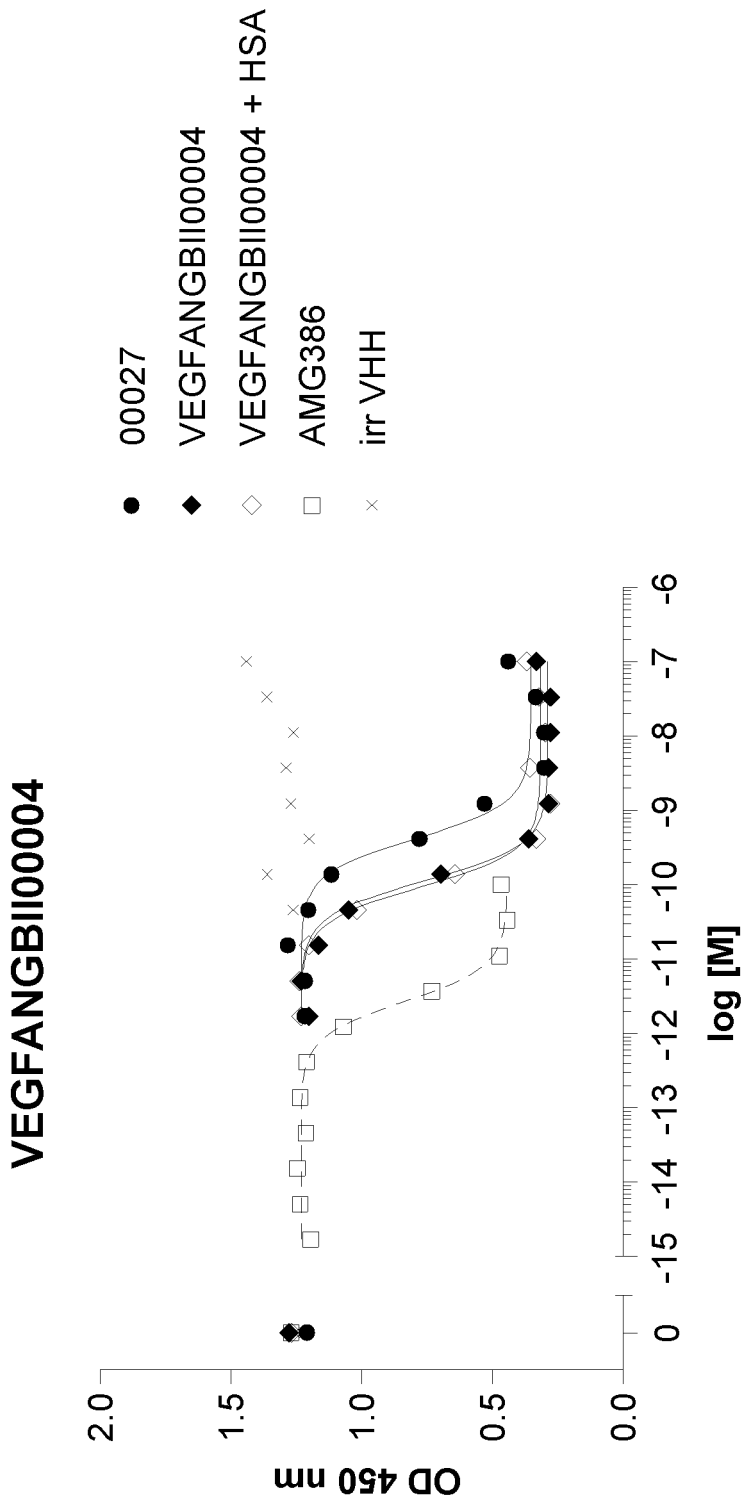
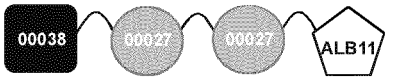
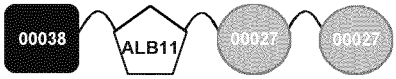
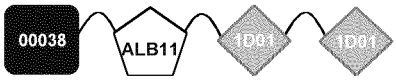

VEGFANGBII00004
00027
VEGFANGBII00004
VEGFANGBII00004 + HSA
AMG386
irr VHH
OD 450 nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 26

VHH ID	Format	Description
VEGFANGBII00005		VEGFBII00038-9gs-7G08-9gs-ALB11
VEGFANGBII00006		VEGFBII00038-9gs-ALB11-9gs-7G08
VEGFANGBII00007		VEGFBII00038-9gs-7G08-9gs-ALB11-9gs-7G08
VEGFANGBII00008		VEGFBII00038-9gs-00027-9gs-00027-9gs-ALB11
VEGFANGBII00009		VEGFBII00038-9gs-ALB11-9gs-00027-9gs-00027
VEGFANGBII00010		VEGFBII00038-9gs-00027-9gs-ALB11-9gs-00027
VEGFANGBII00011		VEGFBII00038-9gs-1D01-9gs-1D01-9gs-ALB11
VEGFANGBII00012		VEGFBII00038-9gs-ALB11-9gs-1D01-9gs-1D01
VEGFANGBII00013		VEGFBII00038-9gs-1D01-9gs-ALB11-9gs-1D01
VEGFANGBII00014		VEGFBII00038-9gs-ALB11-9gs-1D01

Legend:

	Description		Description
	VEGFBII00038		ALB11
	00027	AAA	*triple Ala* linker
	1D01		*9 GlySer* linker
	7G08		

Figure 27-1A

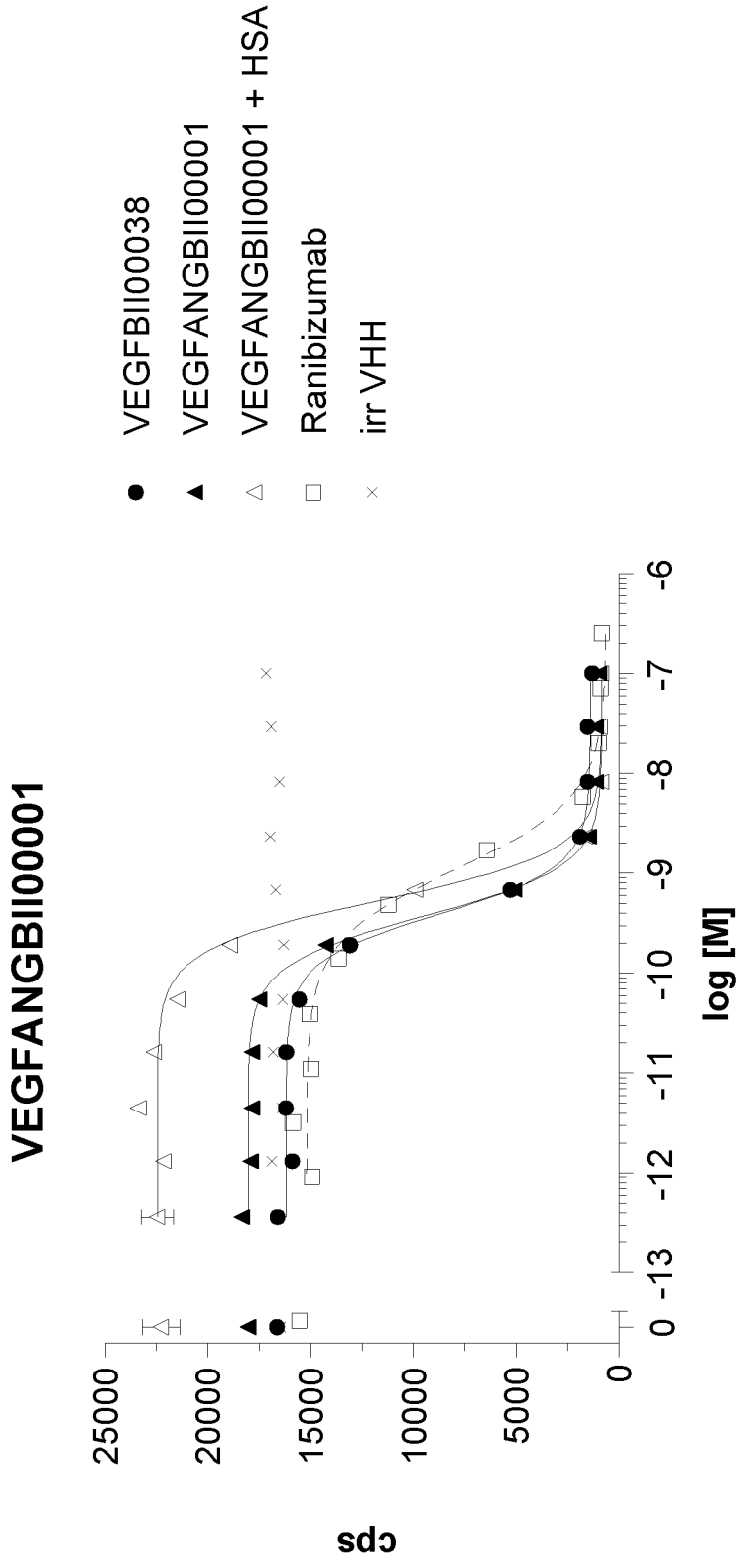

VEGFBII00038
VEGFANGBII00001
VEGFANGBII00001 + HSA
Ranibizumab
irr VHH
VEGFANGBII00001
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1B

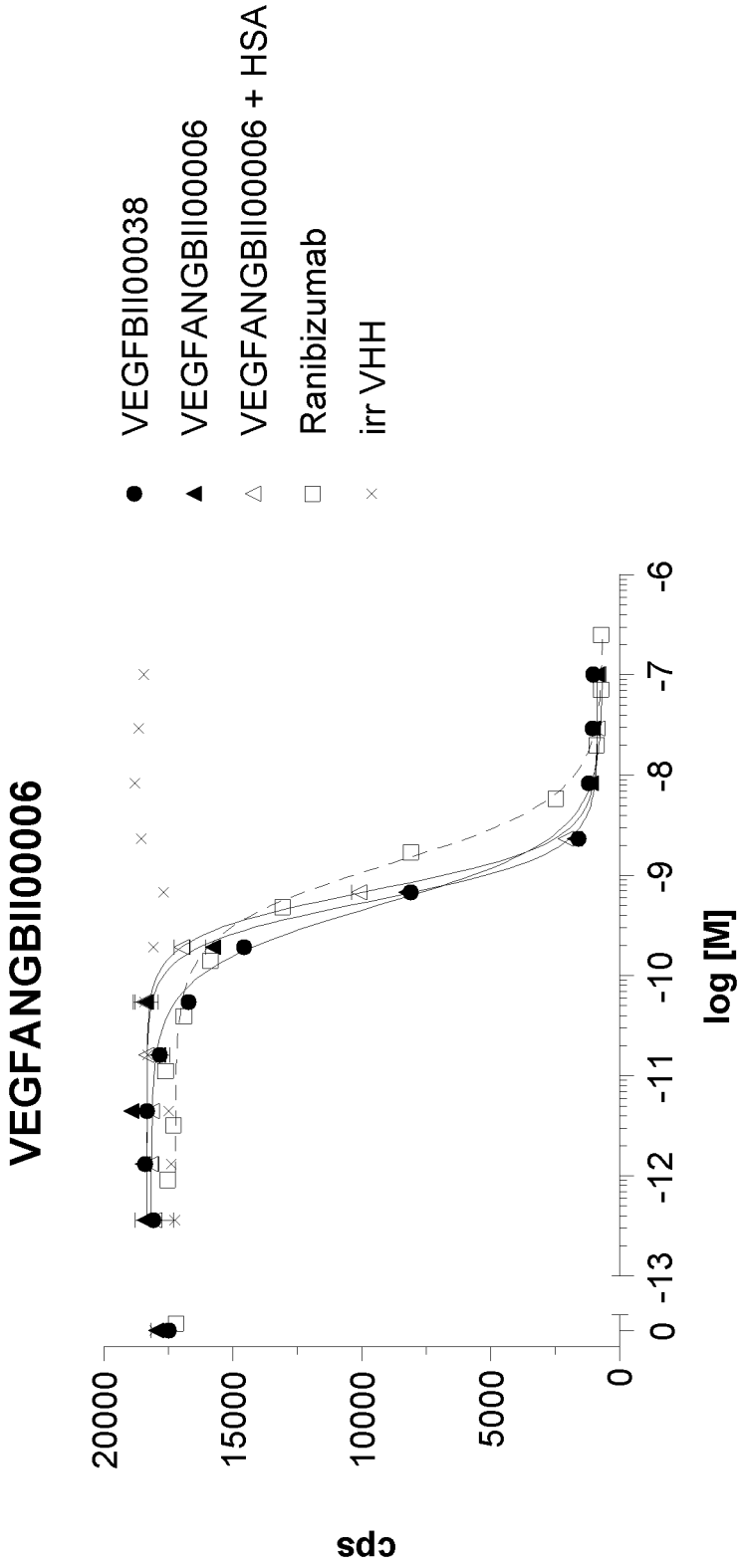

VEGFBII00038
VEGFANGBII00006
VEGFANGBII00006 + HSA
Ranibizumab
irr VHH
VEGFANGBII00006
cps
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1C

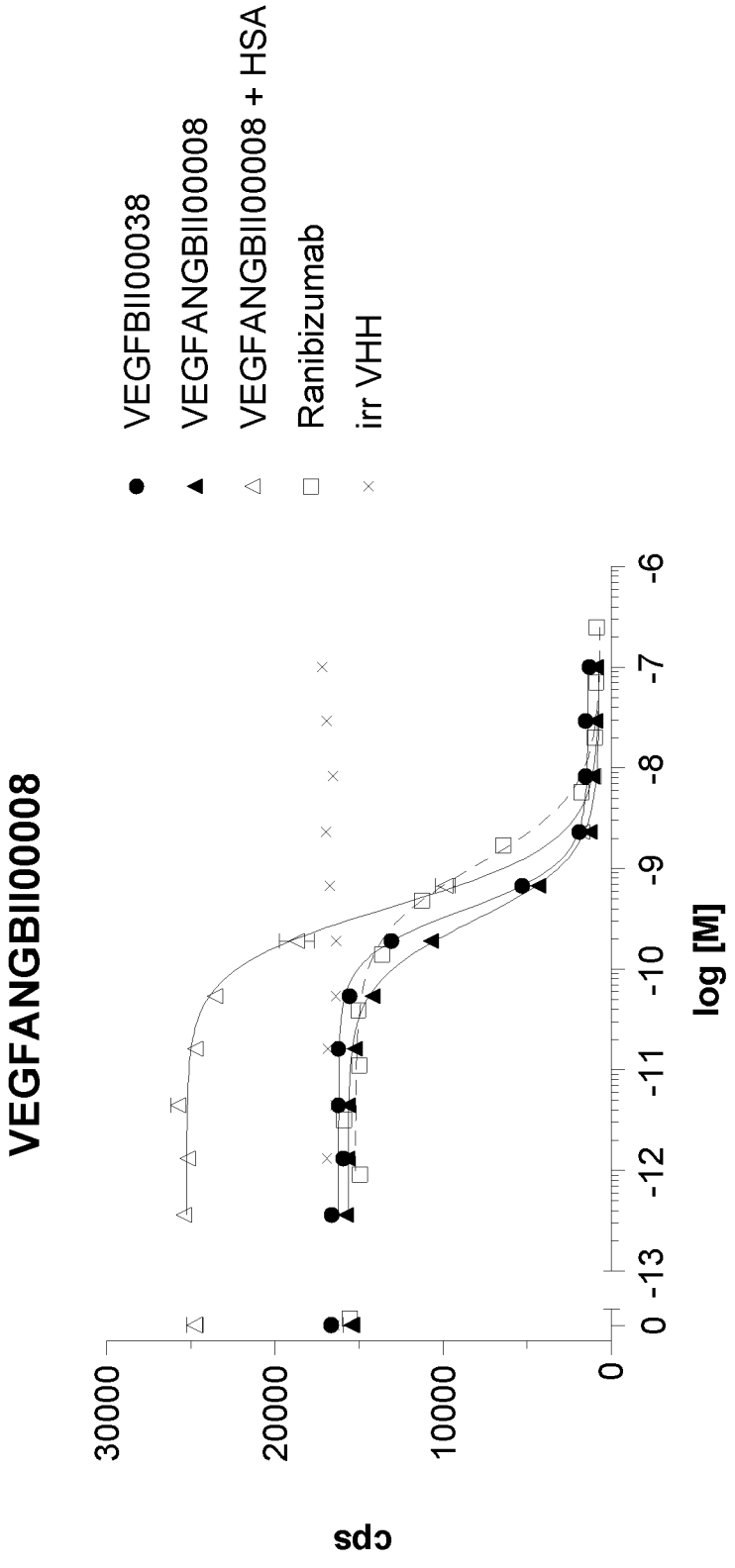

VEGFANGBII00008
VEGFBII00038
VEGFANGBII00008
VEGFANGBII00008 + HSA
Ranibizumab
irr VHH
cps
30000
20000
10000
0
0
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 27-1D

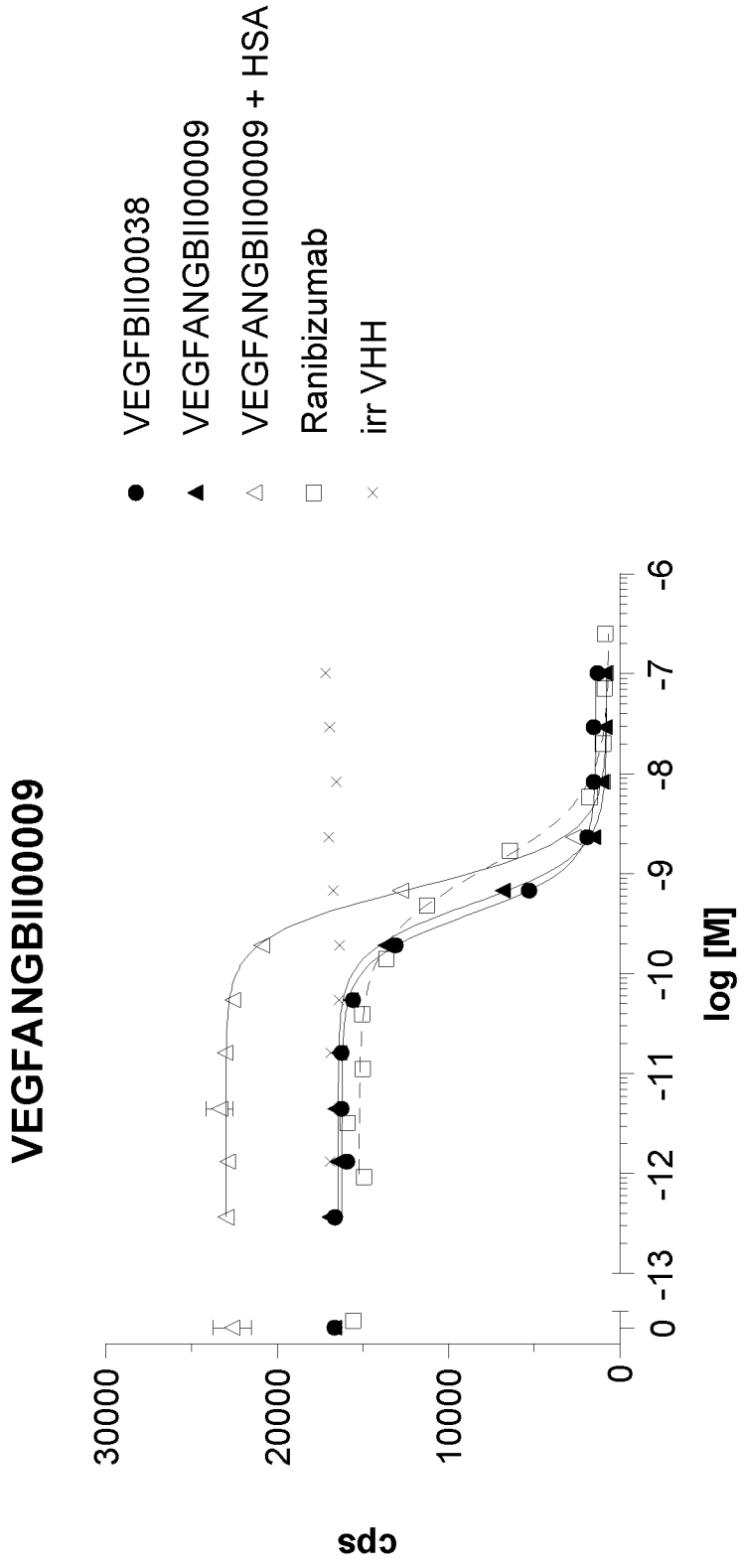

VEGFANGBII00009
VEGFBII00038
VEGFANGBII00009
VEGFANGBII00009 + HSA
Ranibizumab
irr VHH
cps
30000
20000
10000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1E

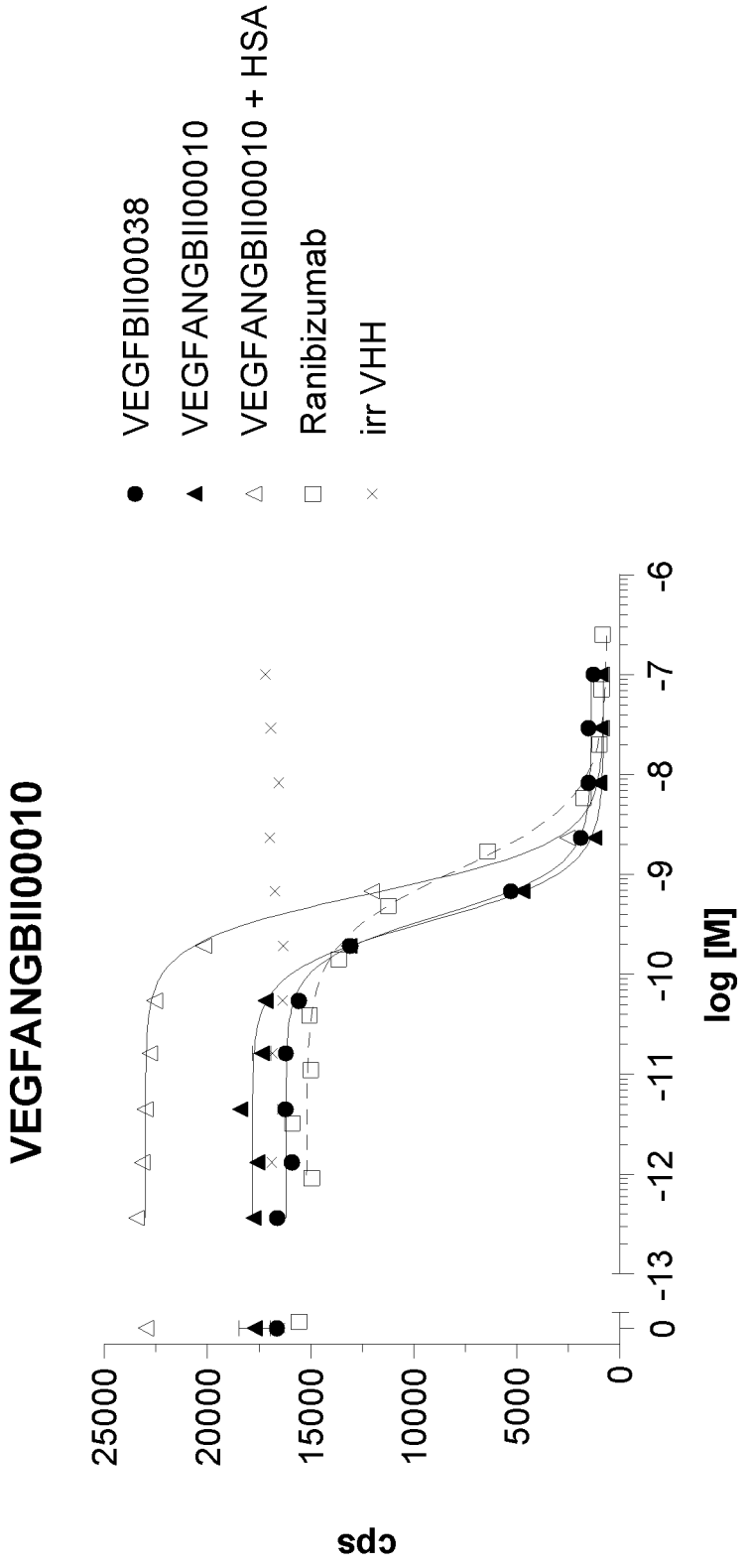

VEGFBII00038
VEGFANGBII00010
VEGFANGBII00010 + HSA
Ranibizumab
irr VHH
VEGFANGBII00010
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1F

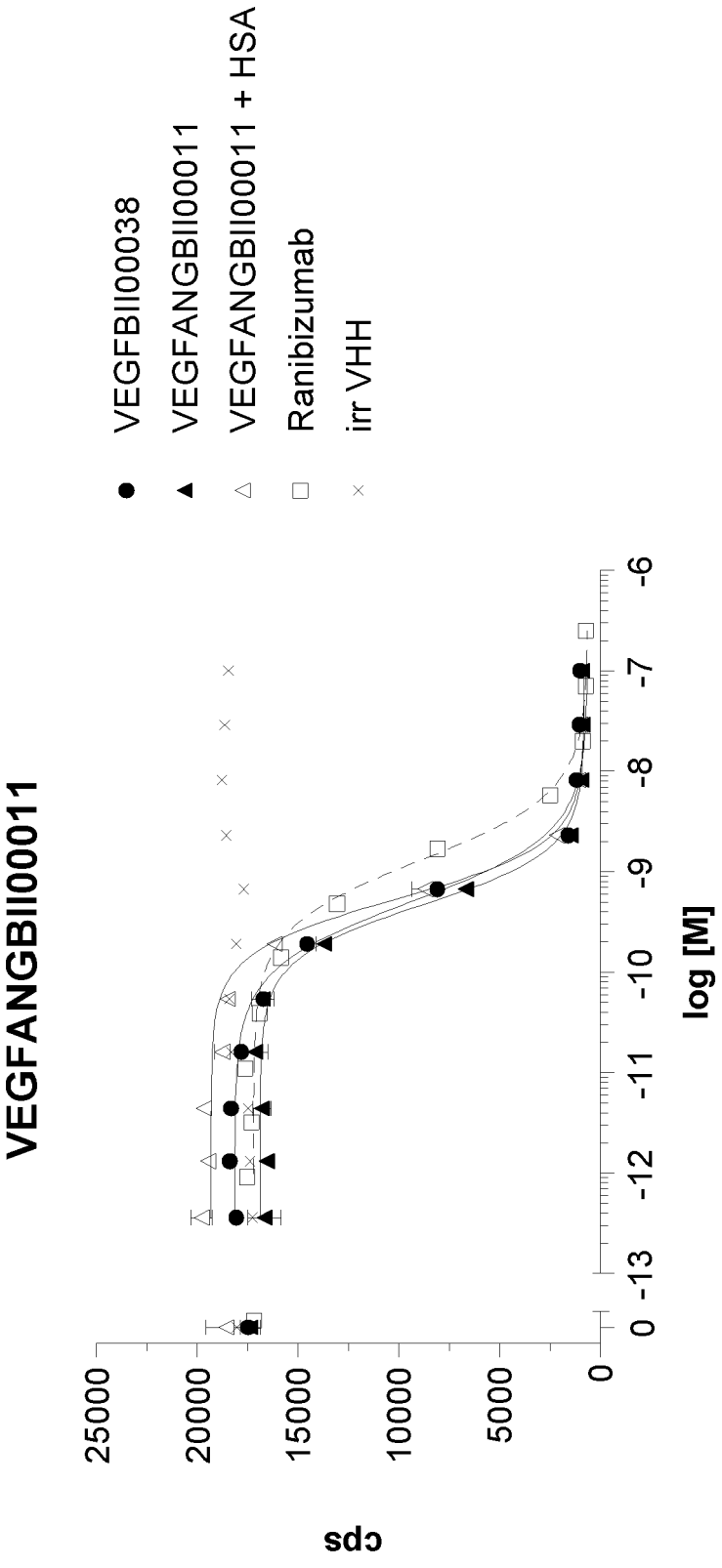

VEGFBII00038
VEGFANGBII00011
VEGFANGBII00011 + HSA
Ranibizumab
irr VHH
VEGFANGBII00011
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1G

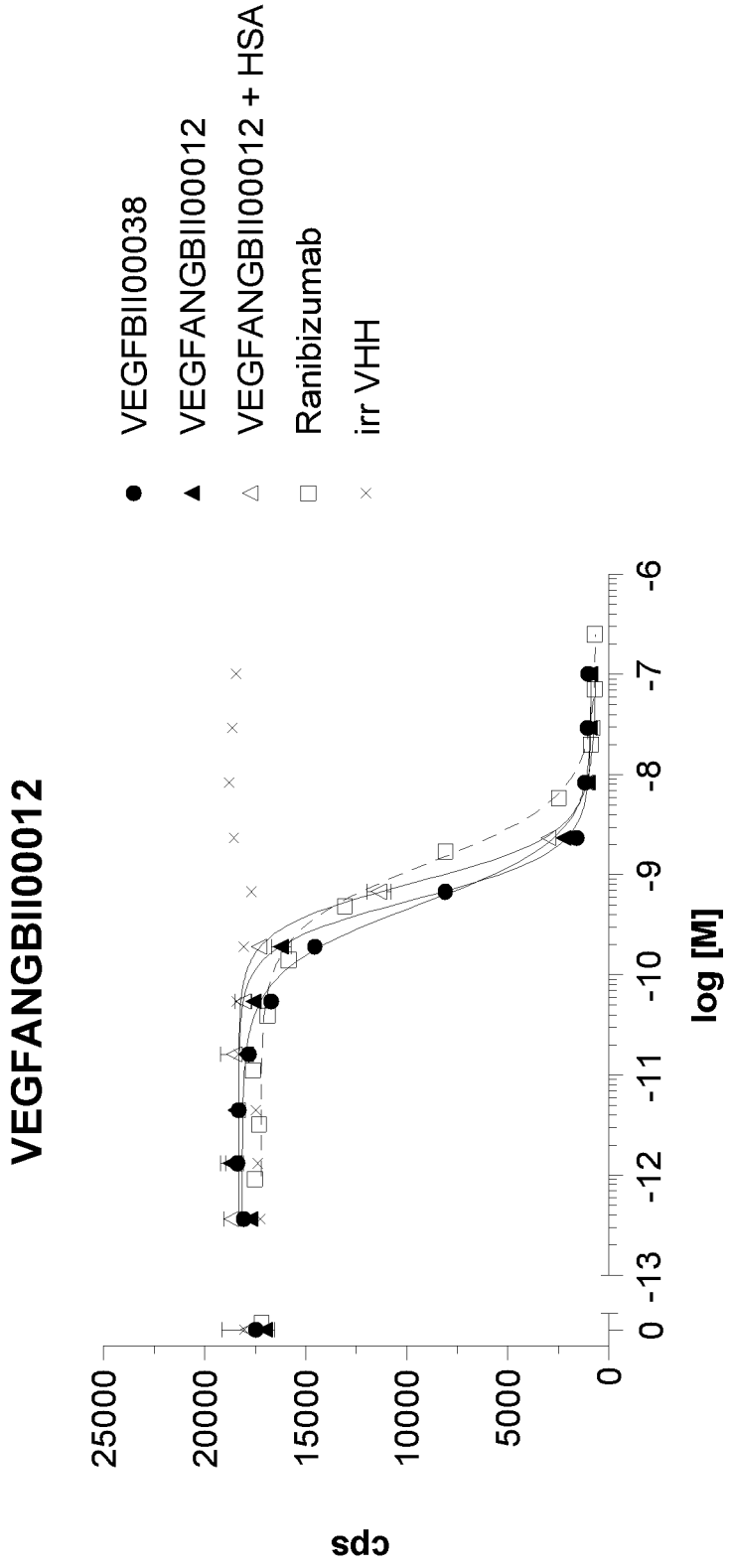

VEGFANGBII00012
VEGFBII00038
VEGFANGBII00012
VEGFANGBII00012 + HSA
Ranibizumab
irr VHH
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-1H

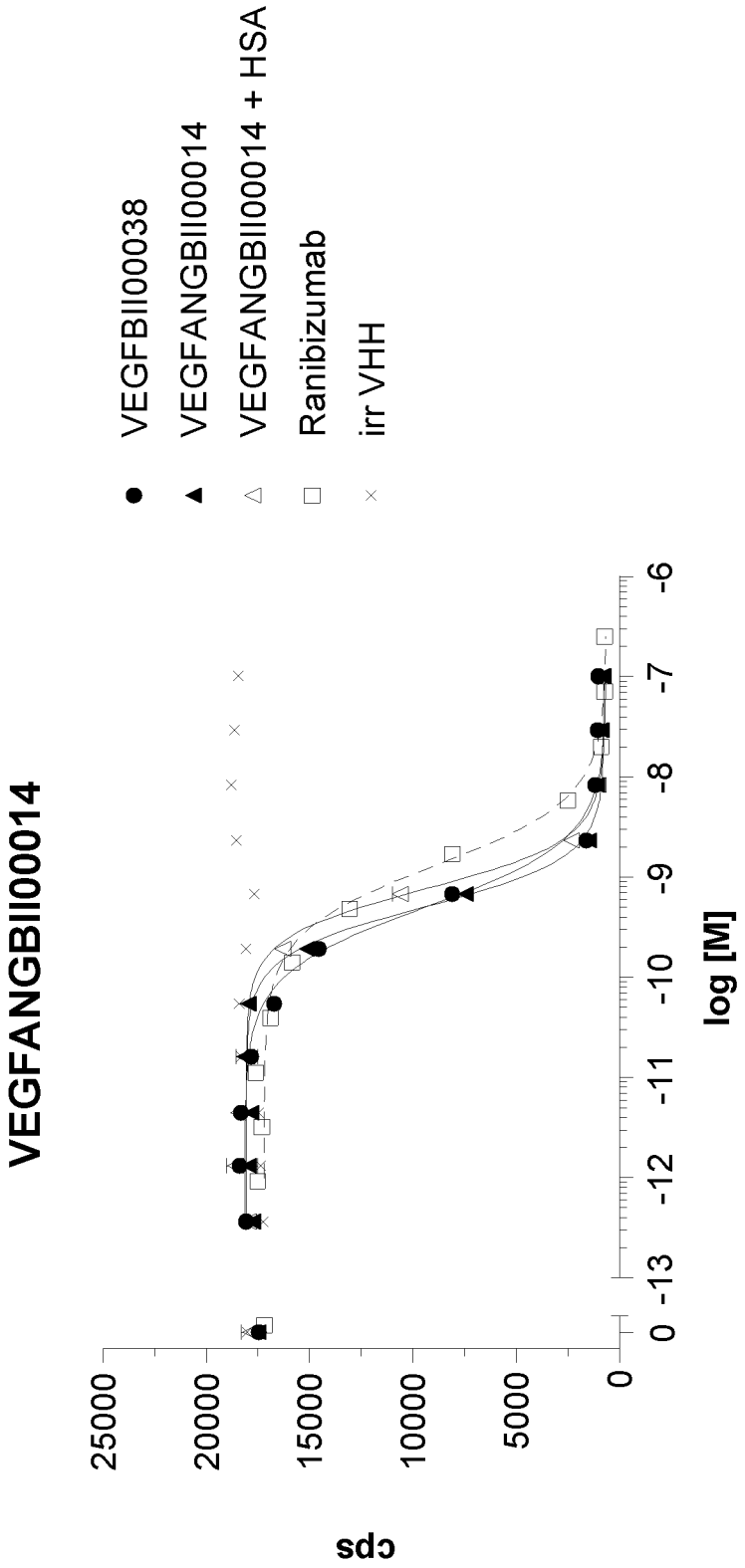

VEGFANGBII00014
VEGFBII00038
VEGFANGBII00014
VEGFANGBII00014 + HSA
Ranibizumab
irr VHH
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2A

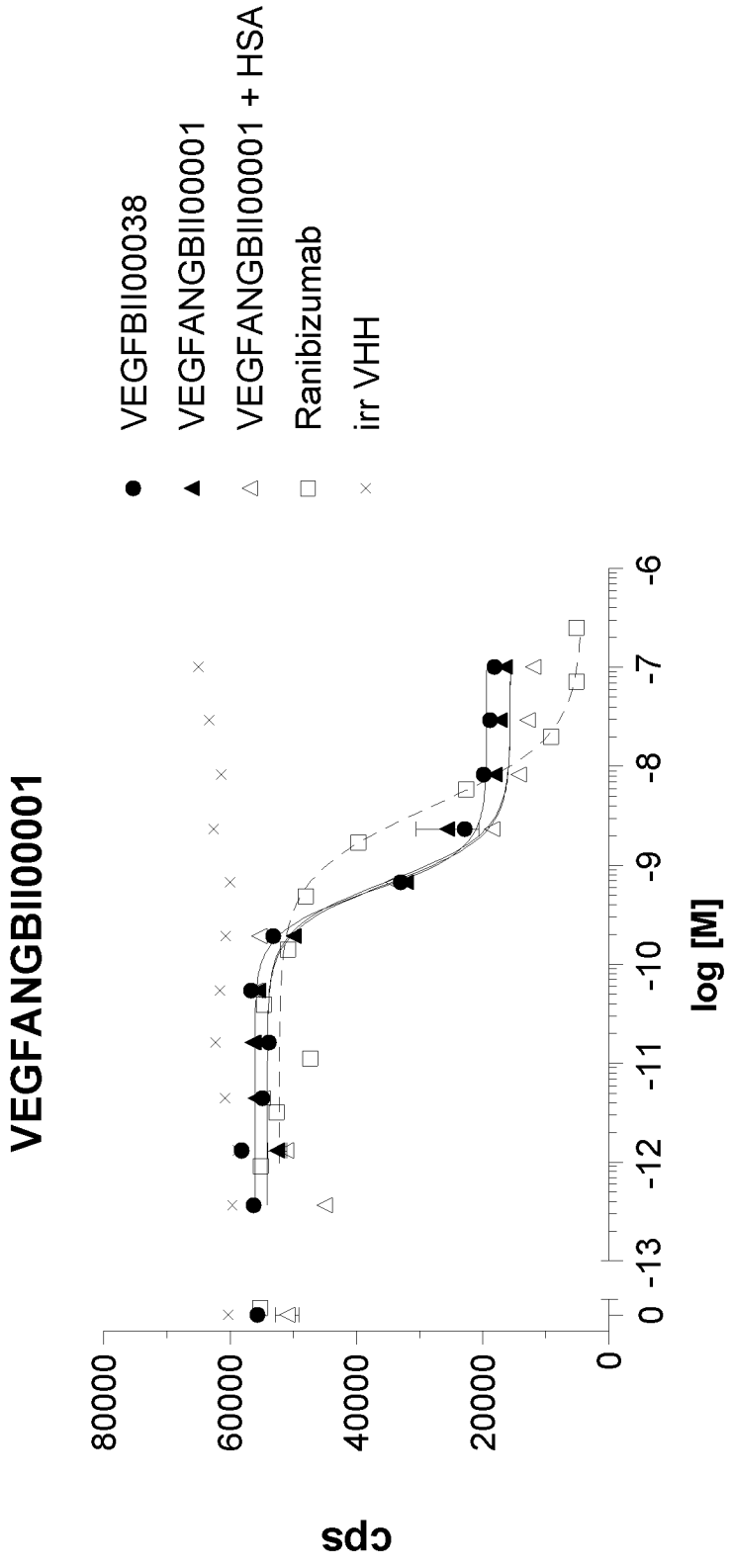

VEGFBII00038
VEGFANGBII00001
VEGFANGBII00001 + HSA
Ranibizumab
irr VHH
VEGFANGBII00001
cps
80000
60000
40000
20000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2B

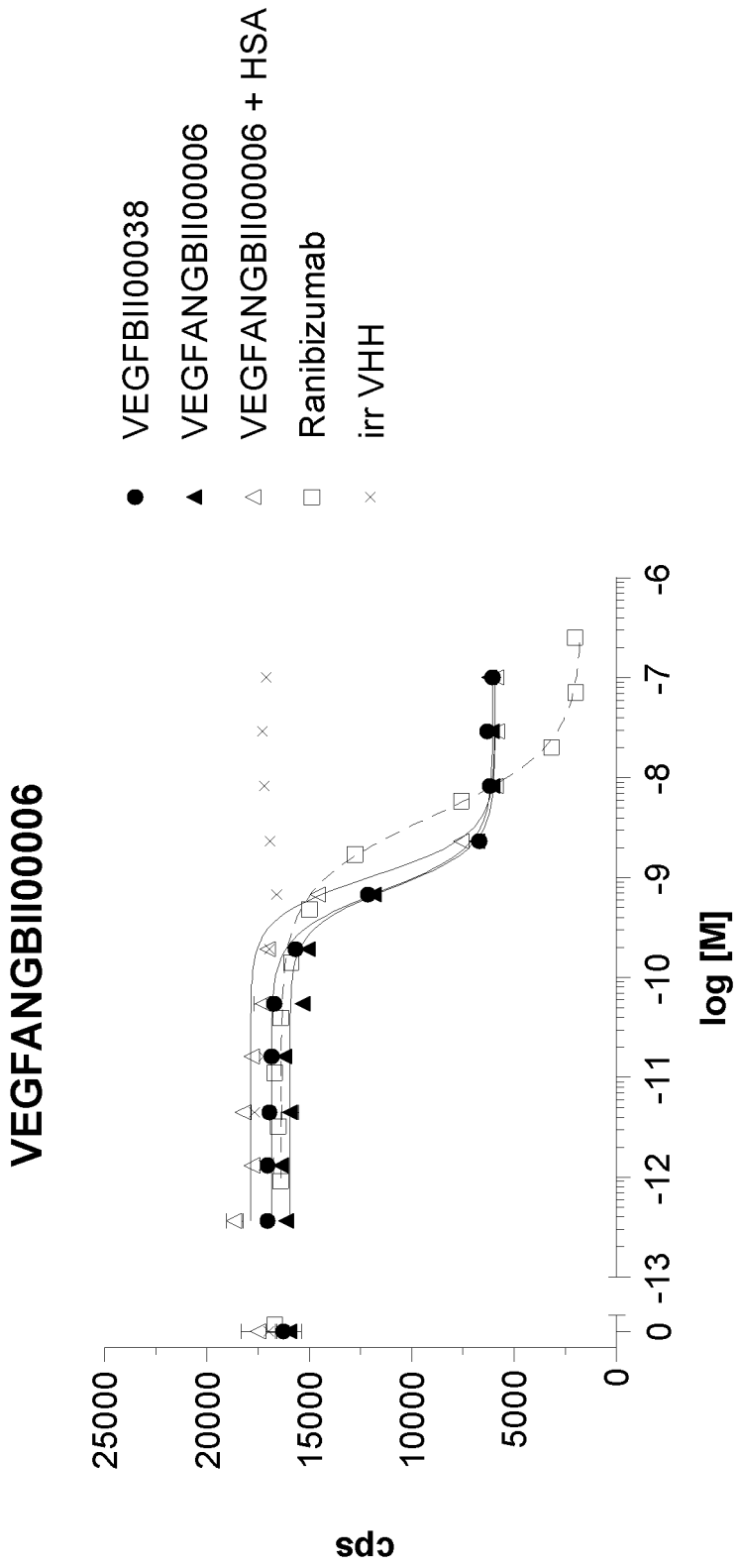

VEGFBII00038
VEGFANGBII00006
VEGFANGBII00006 + HSA
Ranibizumab
irr VHH
VEGFANGBII00006
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2C

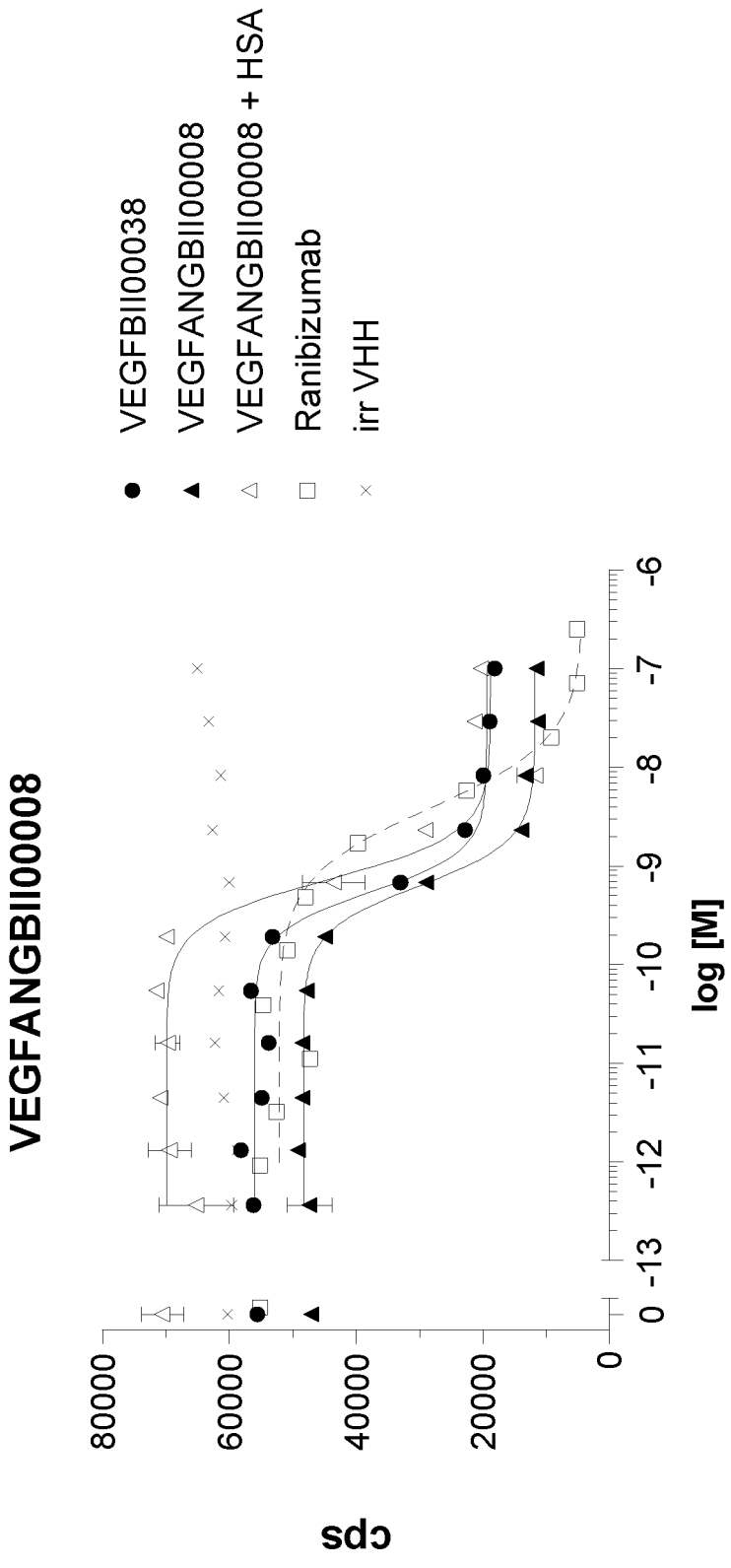

VEGFBII00038
VEGFANGBII00008
VEGFANGBII00008 + HSA
Ranibizumab
irr VHH
VEGFANGBII00008
cps
80000
60000
40000
20000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2D

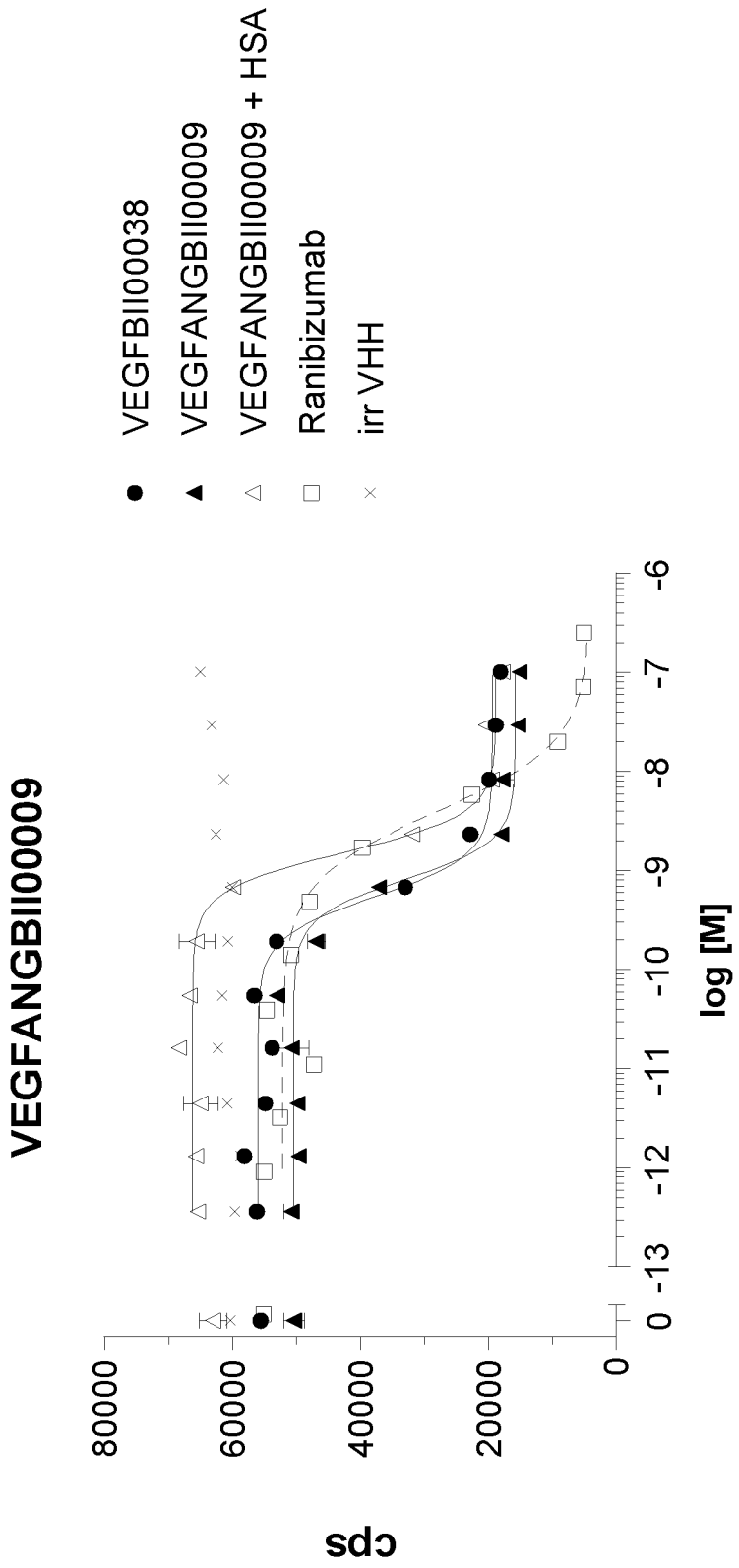

VEGFBII00038
VEGFANGBII00009
VEGFANGBII00009 + HSA
Ranibizumab
irr VHH
VEGFANGBII00009
cps
80000
60000
40000
20000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2E

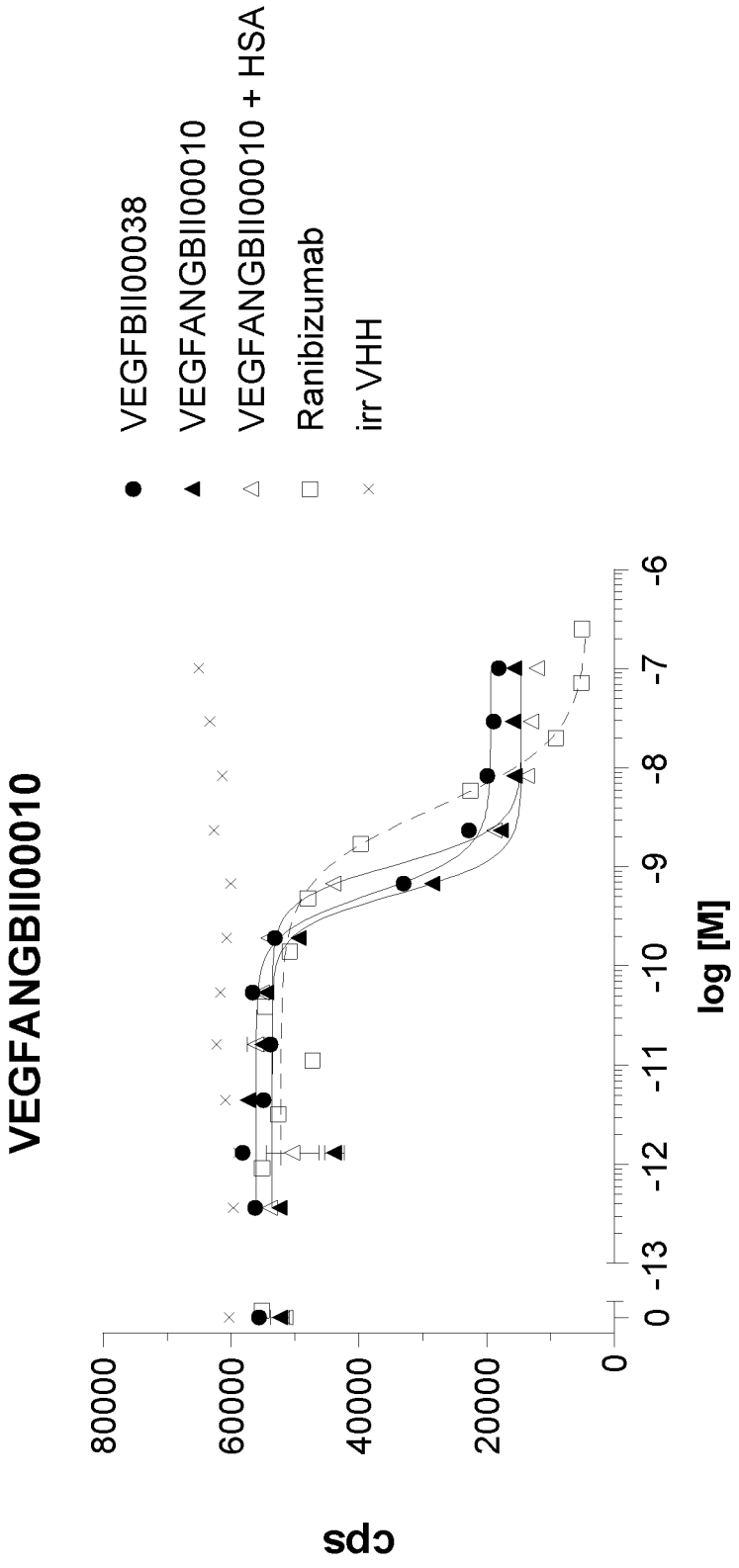

VEGFBII00038
VEGFANGBII00010
VEGFANGBII00010 + HSA
Ranibizumab
irr VHH
VEGFANGBII00010
cps
80000
60000
40000
20000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2F

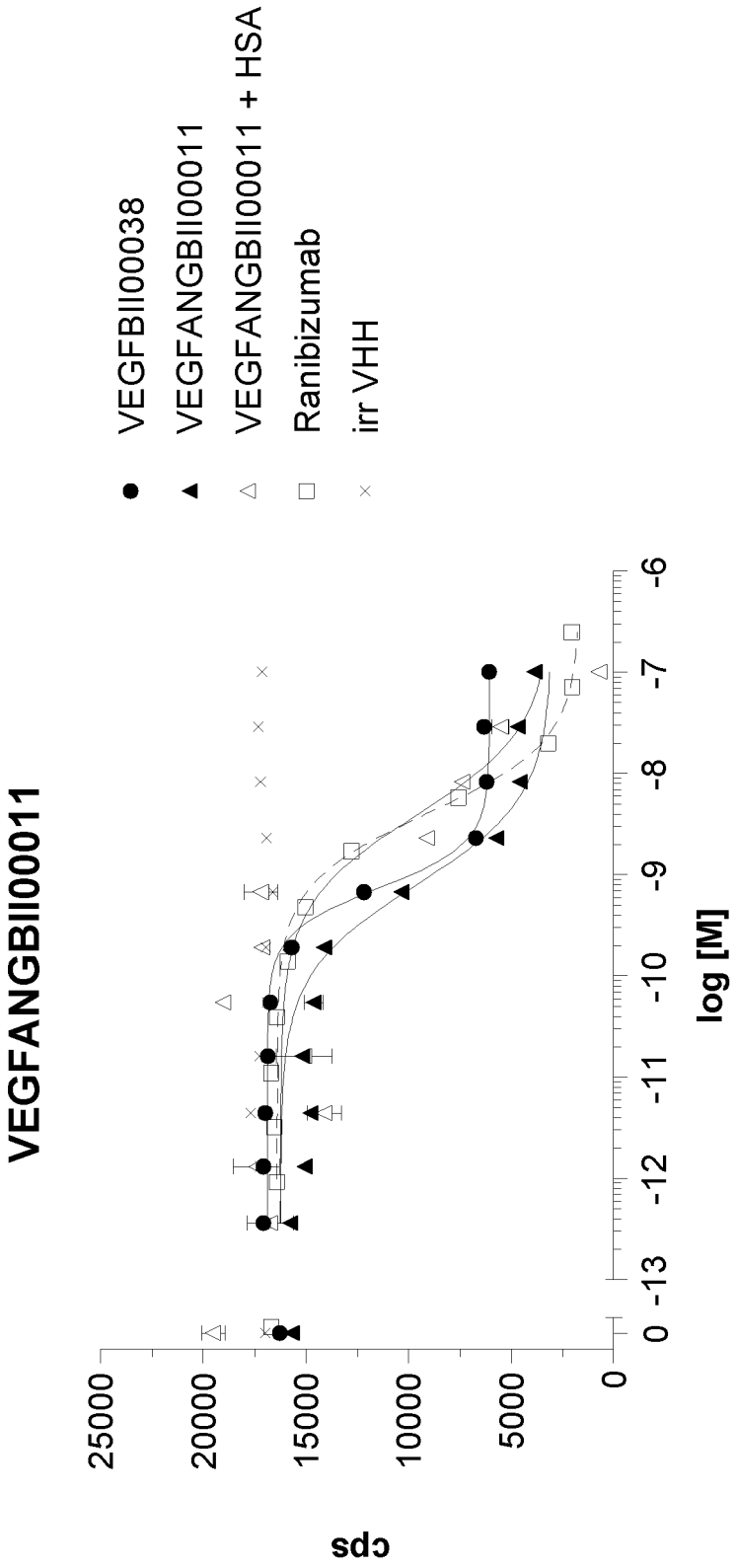

VEGFBII00038
VEGFANGBII00011
VEGFANGBII00011 + HSA
Ranibizumab
irr VHH
VEGFANGBII00011
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 27-2G

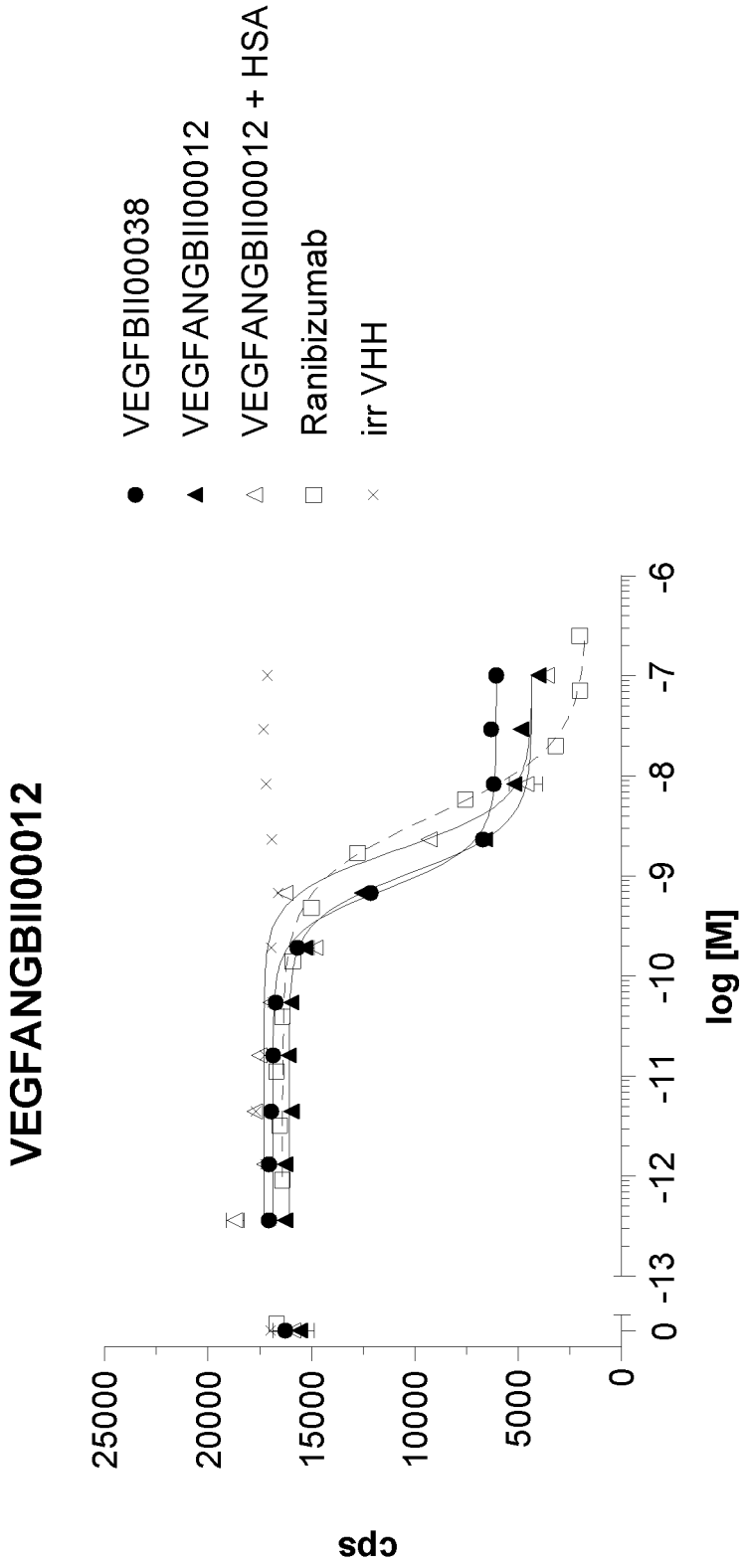

VEGFANGBII00012
VEGFBII00038
VEGFANGBII00012
VEGFANGBII00012 + HSA
Ranibizumab
irr VHH
cps
25000
20000
15000
10000
5000
0
0
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 27-2H

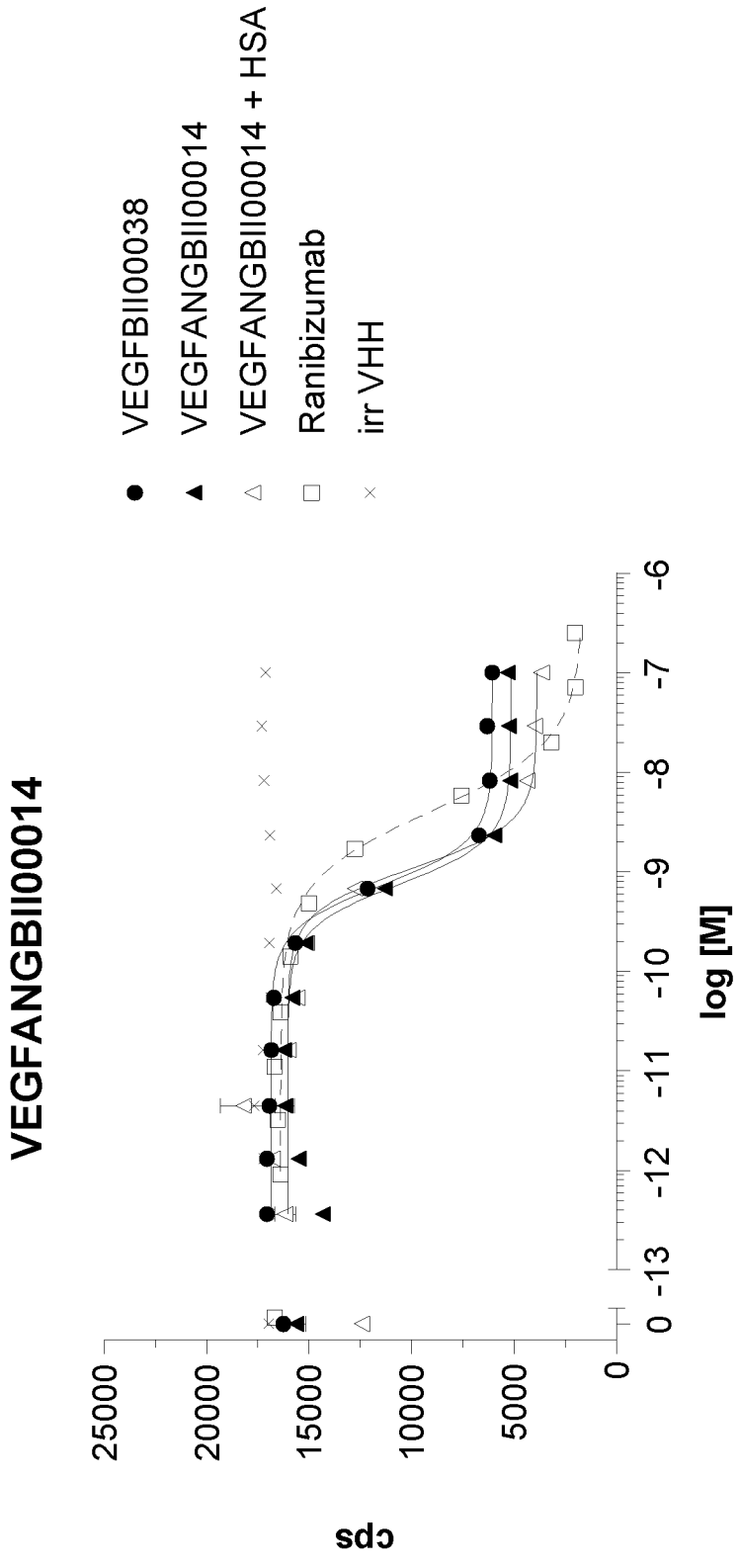

VEGFANGBII00014
VEGFBII00038
VEGFANGBII00014
VEGFANGBII00014 + HSA
Ranibizumab
irr VHH
cps
25000
20000
15000
10000
5000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 28-1A

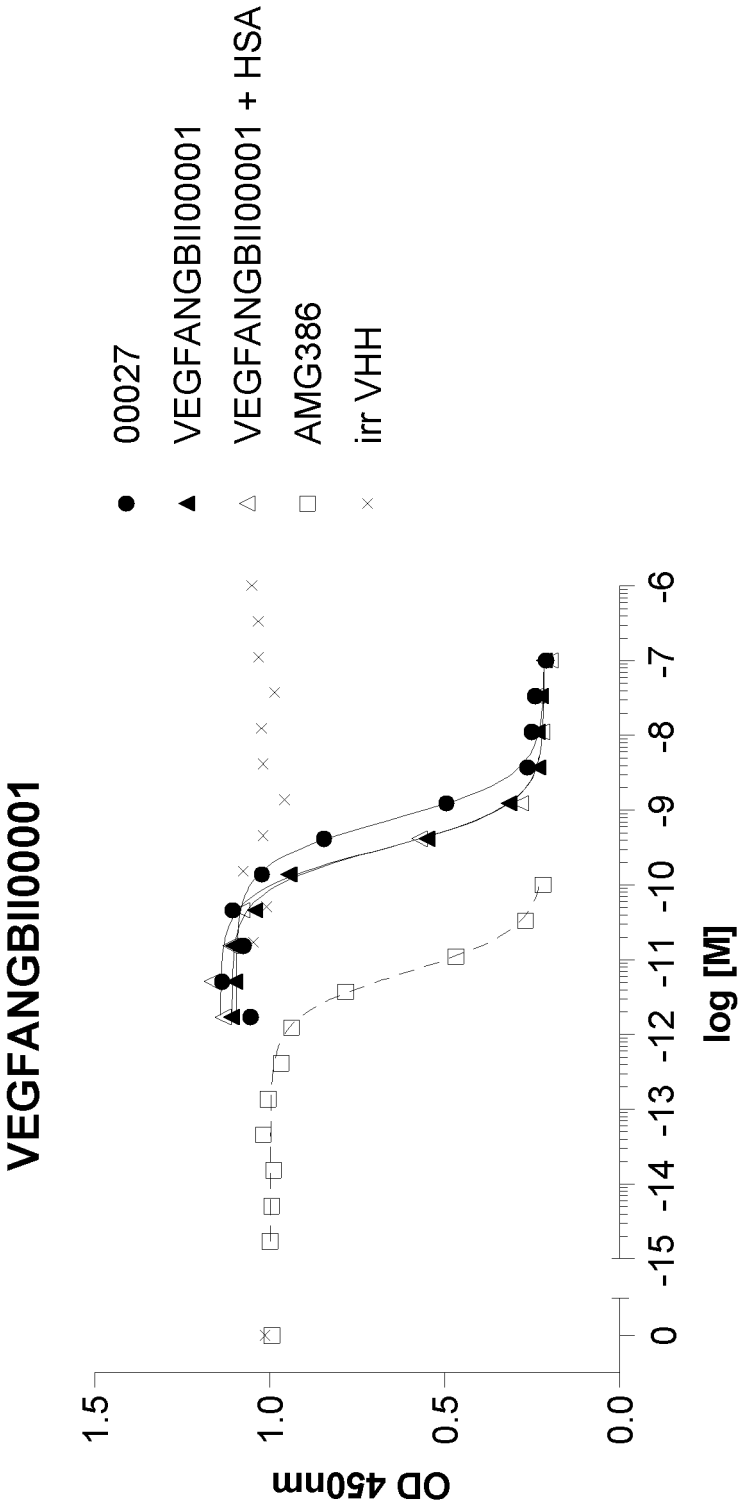

VEGFANGBII00001
00027
VEGFANGBII00001
VEGFANGBII00001 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1B

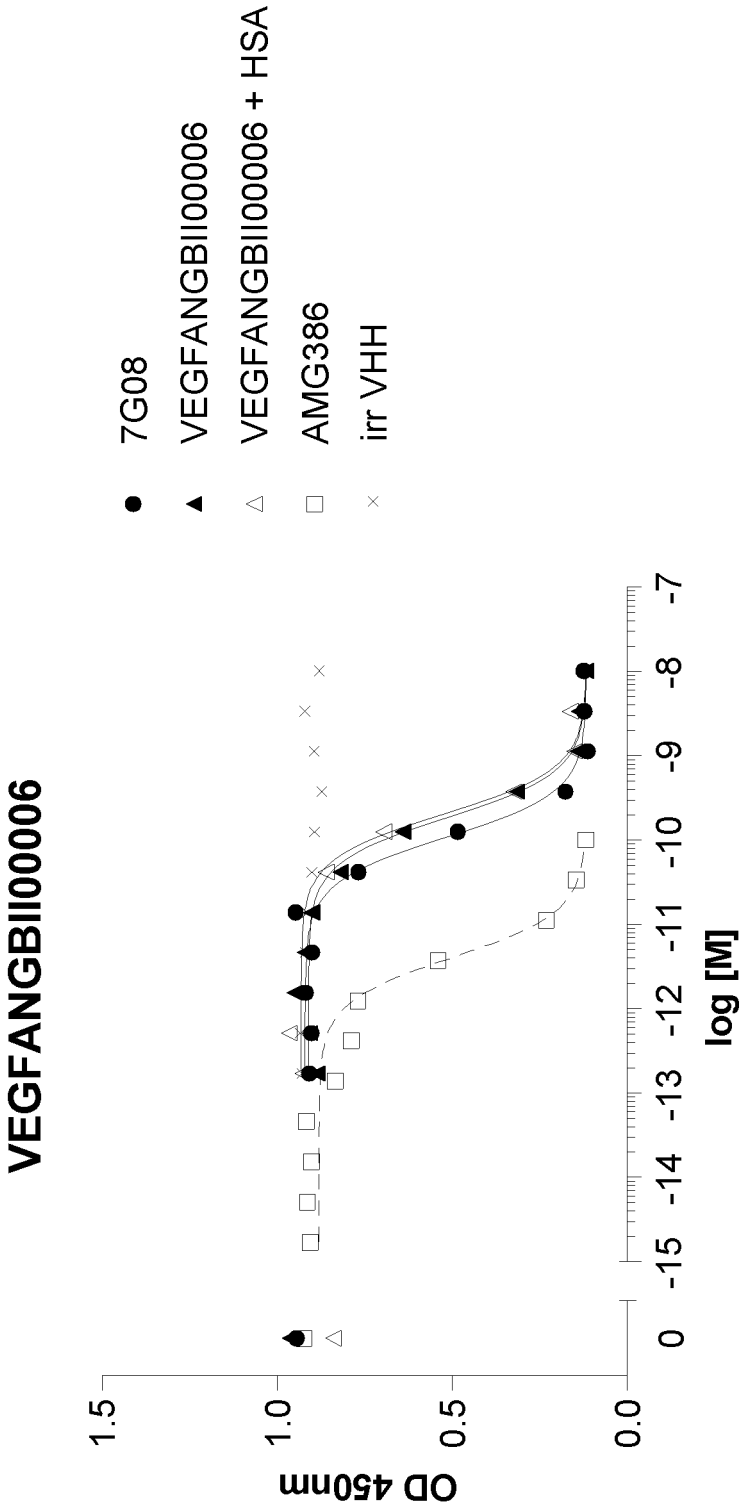

VEGFANGBII00006
7G08
VEGFANGBII00006
VEGFANGBII00006 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
log [M]

Figure 28-1C

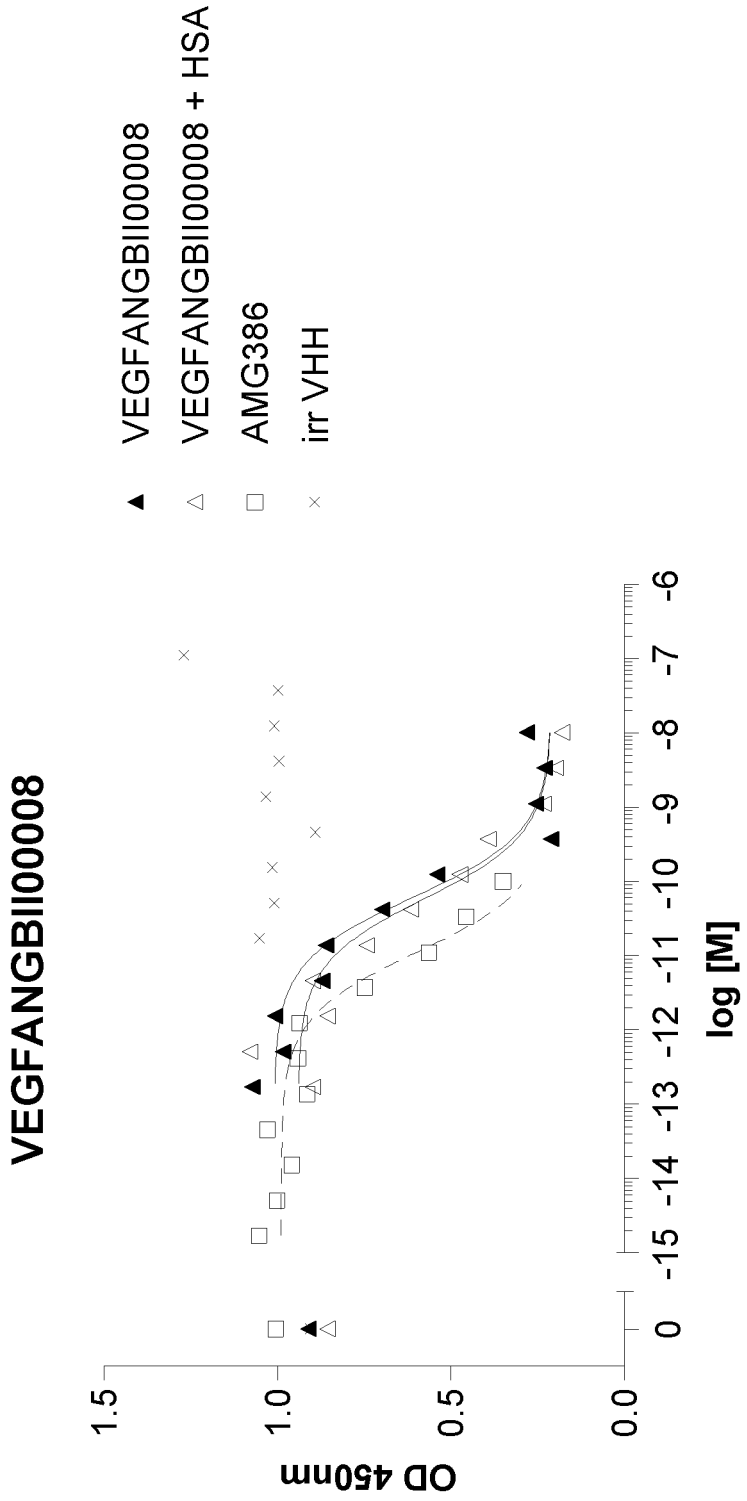

VEGFANGBII00008
VEGFANGBII00008
VEGFANGBII00008 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1D

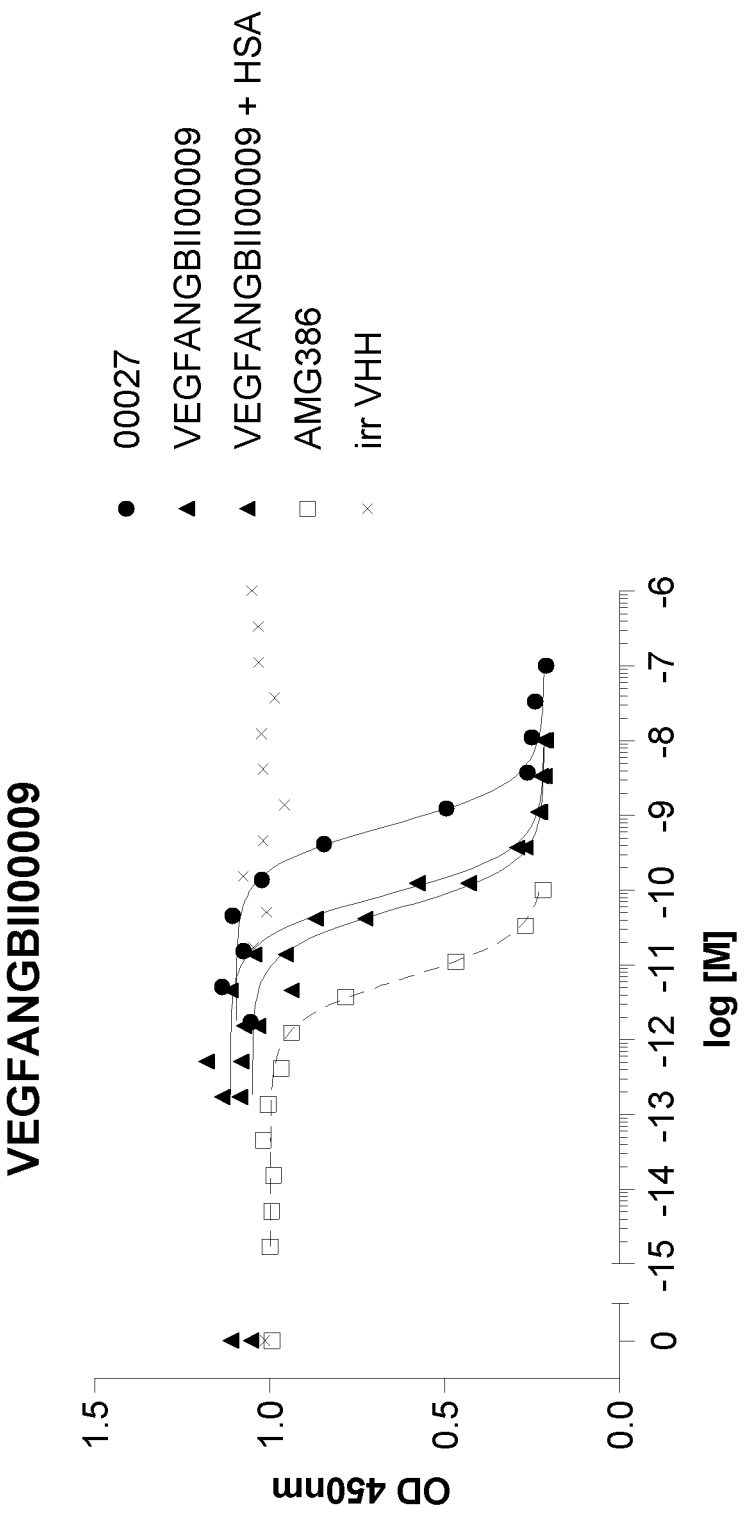

VEGFANGBII00009
00027
VEGFANGBII00009
VEGFANGBII00009 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1E

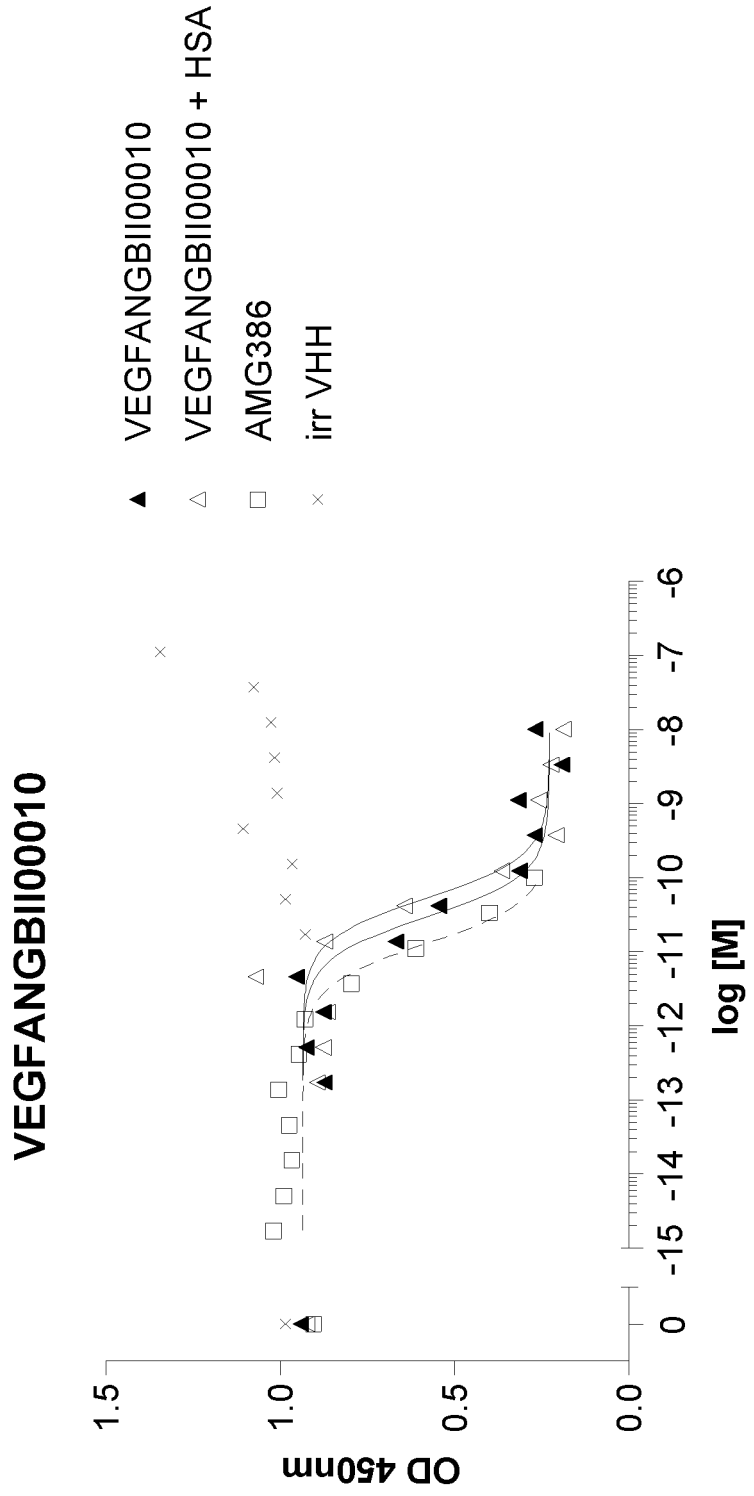

VEGFANGBII00010
VEGFANGBII00010
VEGFANGBII00010 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1F

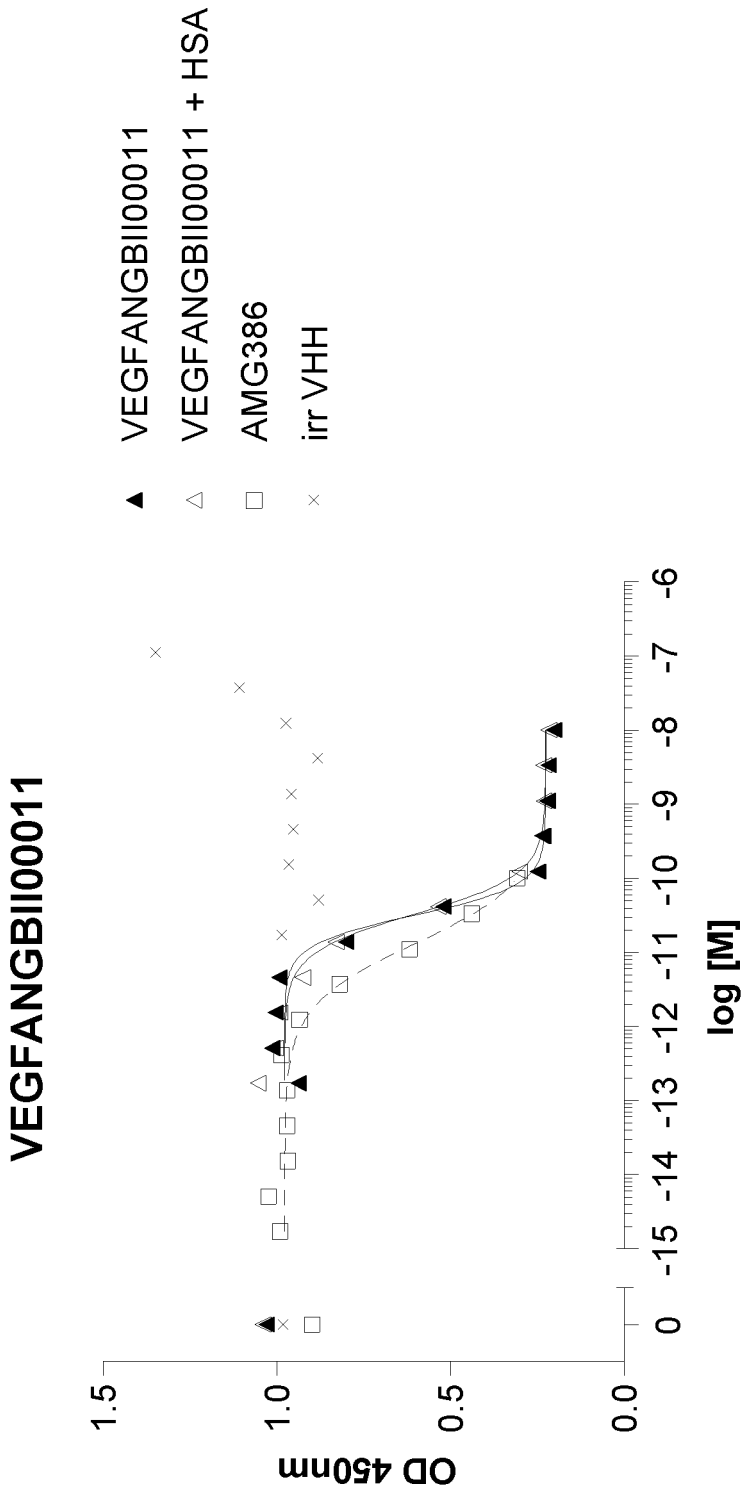

VEGFANGBII00011
VEGFANGBII00011
VEGFANGBII00011 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1G

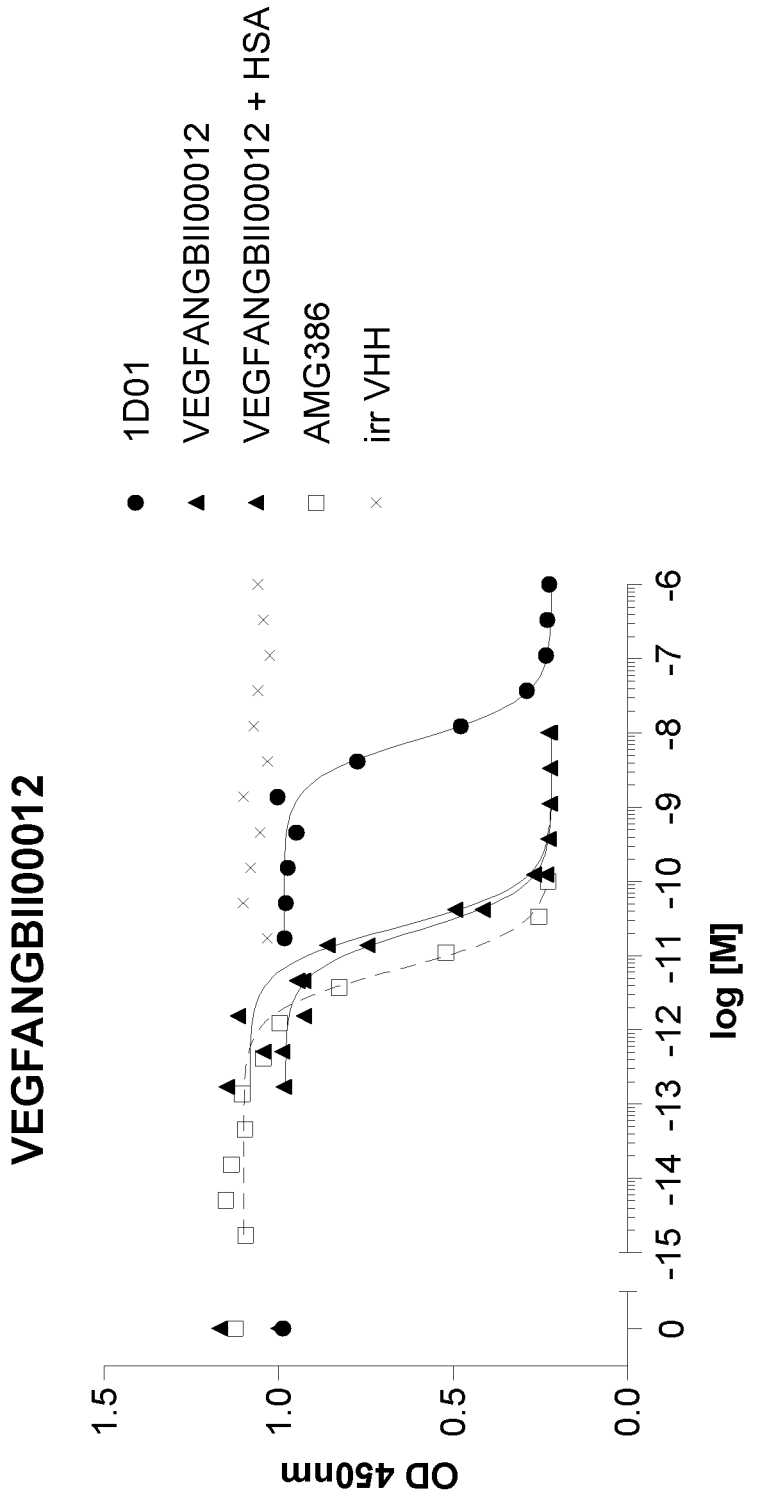

VEGFANGBII00012
1D01
VEGFANGBII00012
VEGFANGBII00012 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-1H

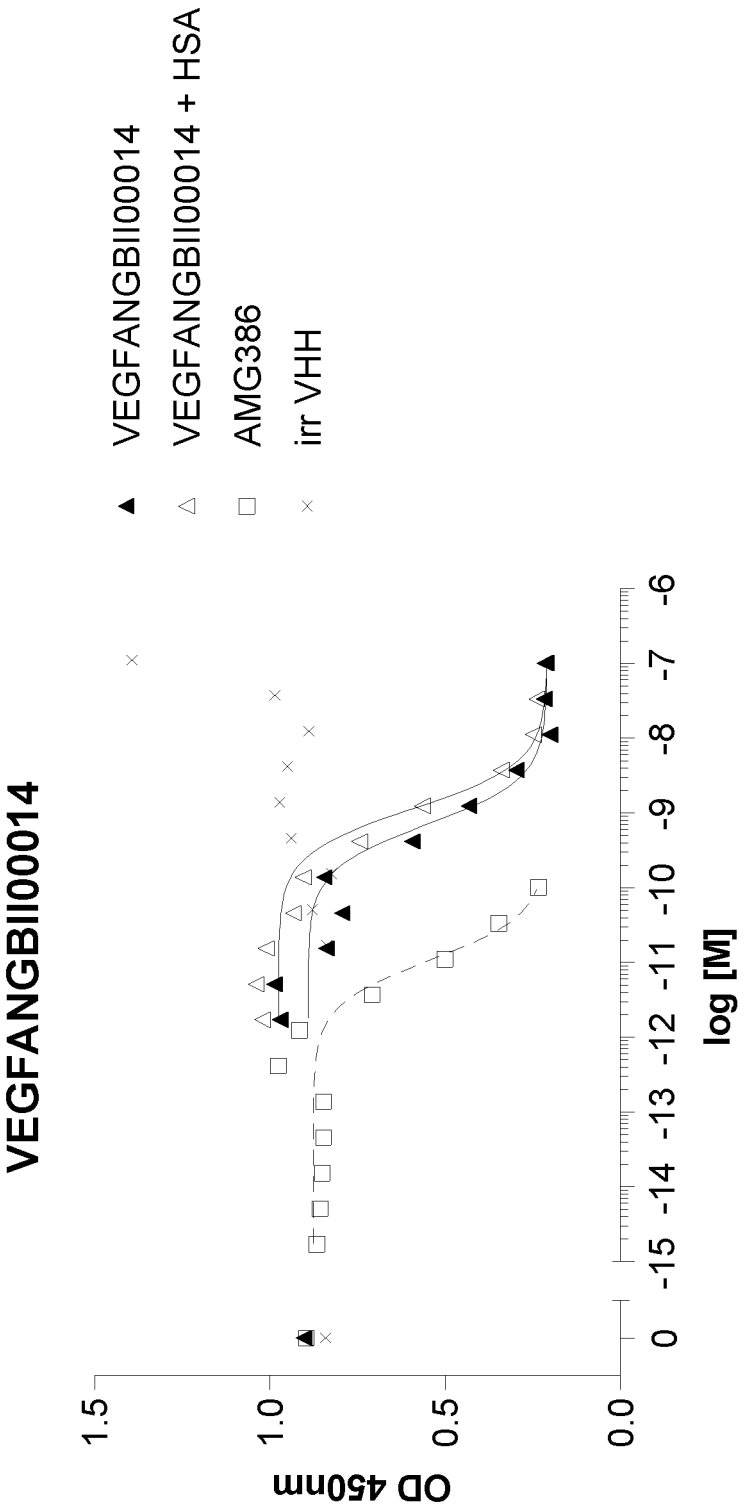

VEGFANGBII00014
VEGFANGBII00014
VEGFANGBII00014 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2A

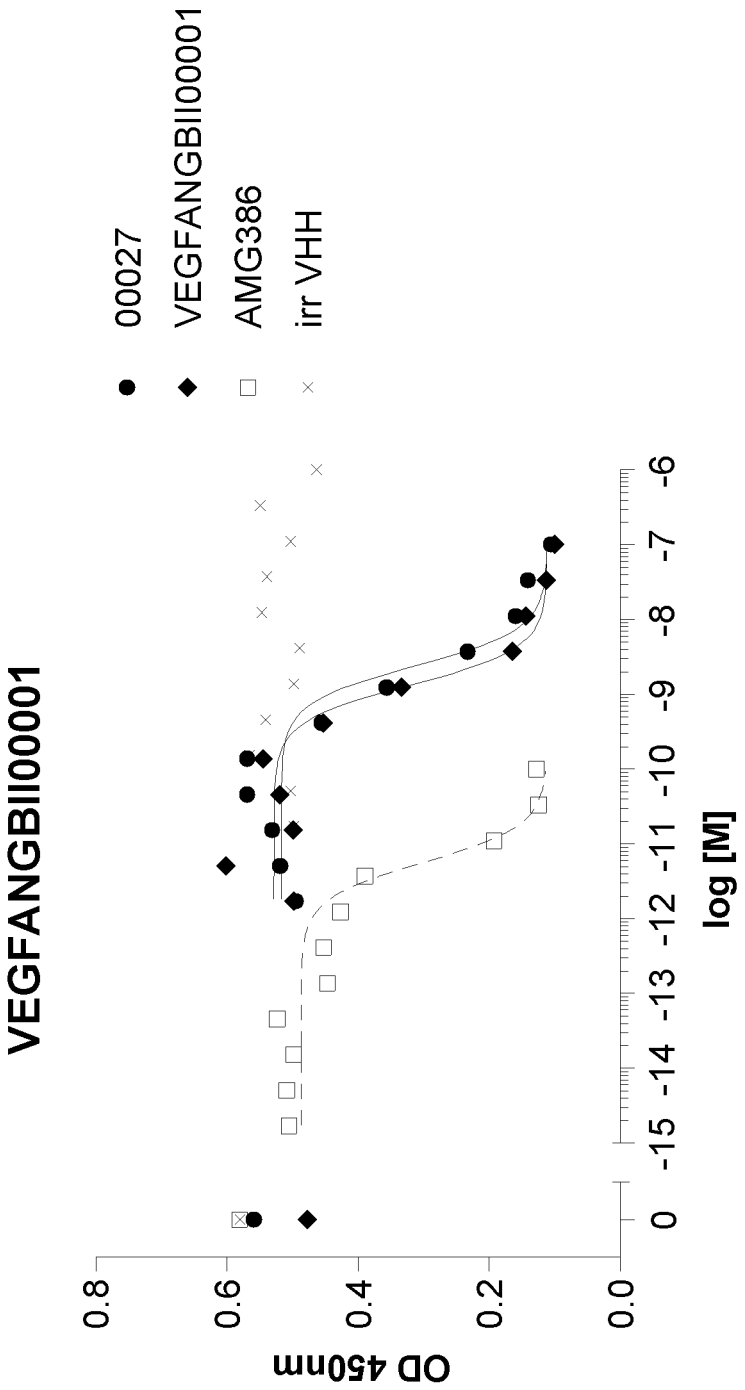

VEGFANGBII00001
00027
VEGFANGBII00001
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2B

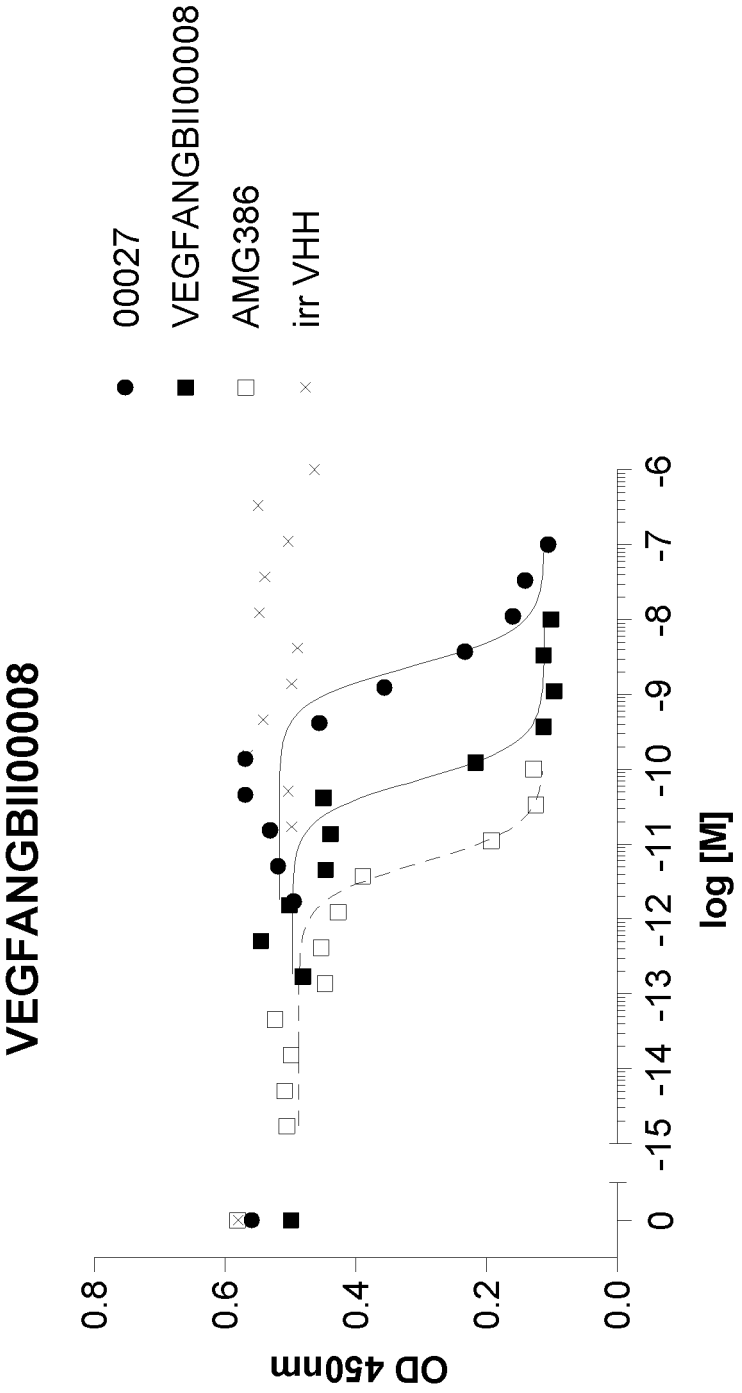

VEGFANGBII00008
00027
VEGFANGBII00008
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2C

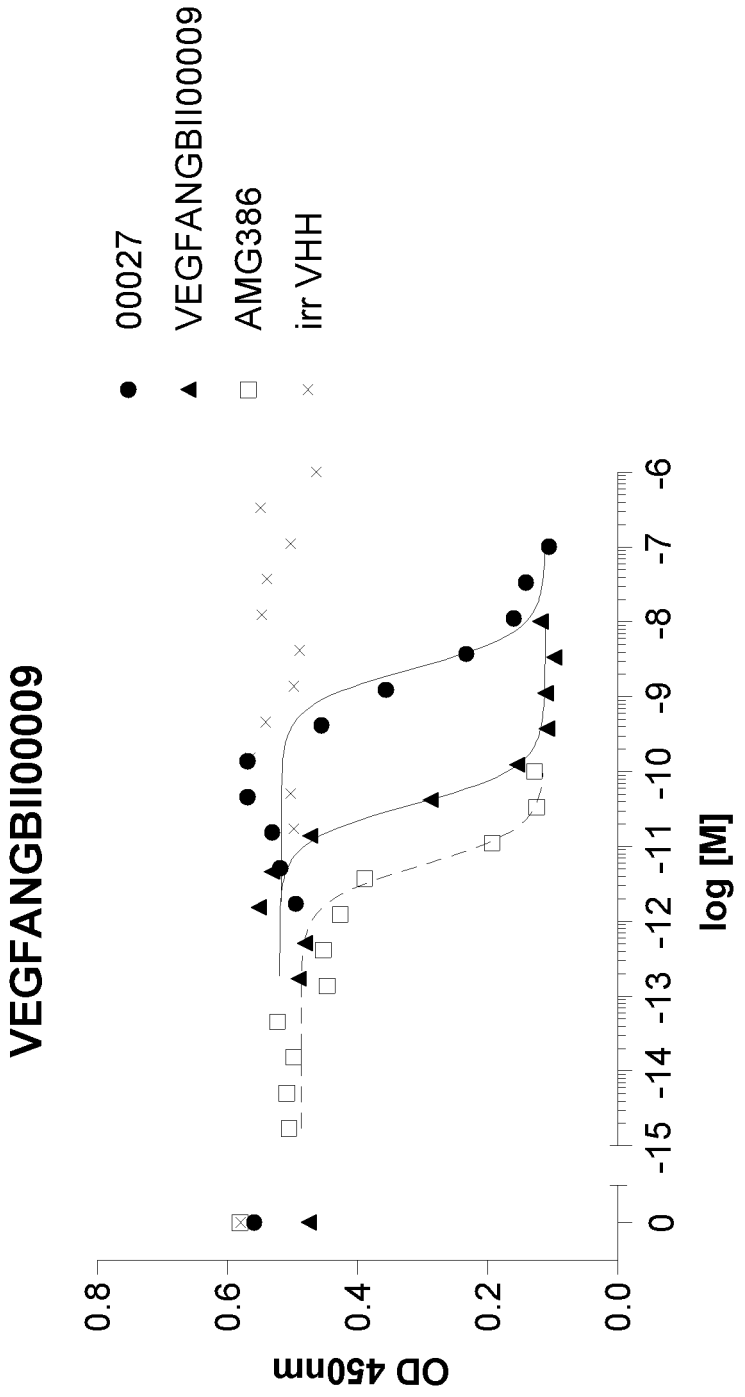

VEGFANGBII00009
00027
VEGFANGBII00009
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2D

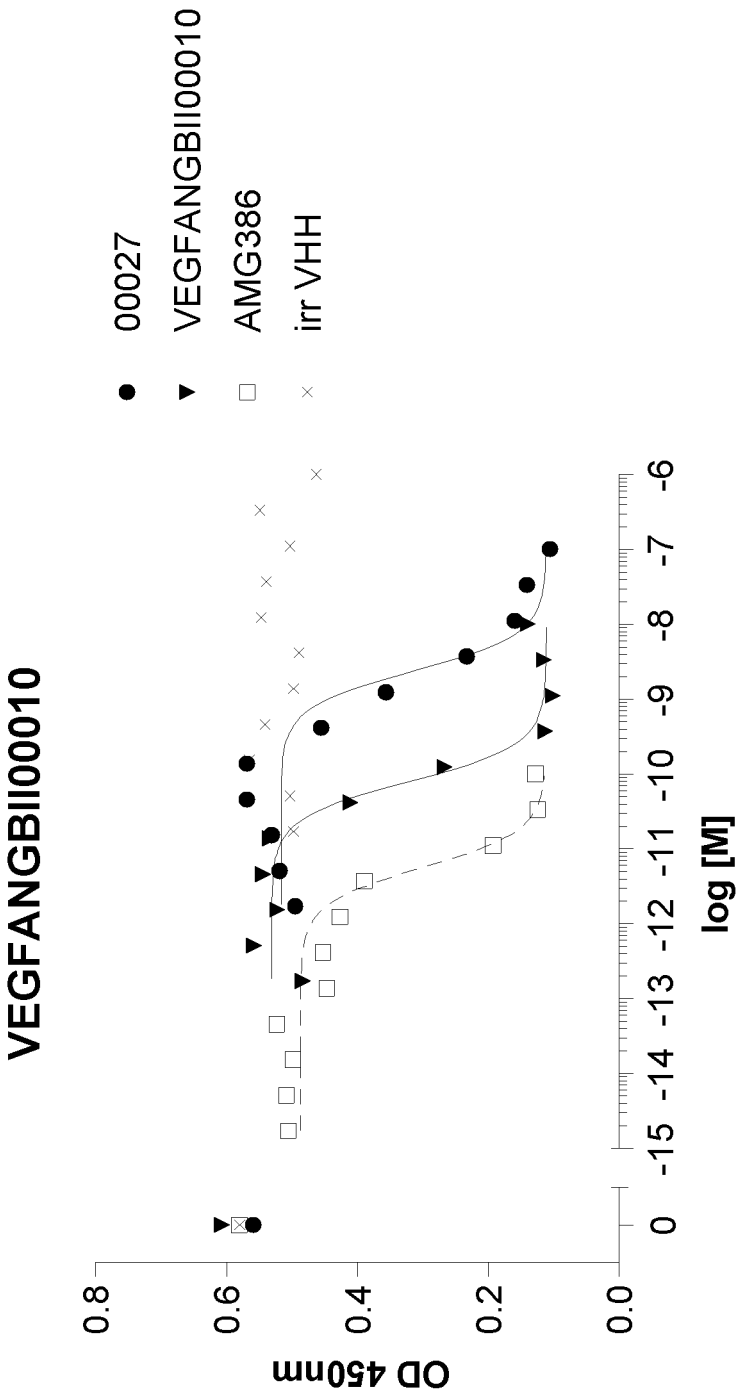

VEGFANGBII00010
00027
VEGFANGBII00010
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2E

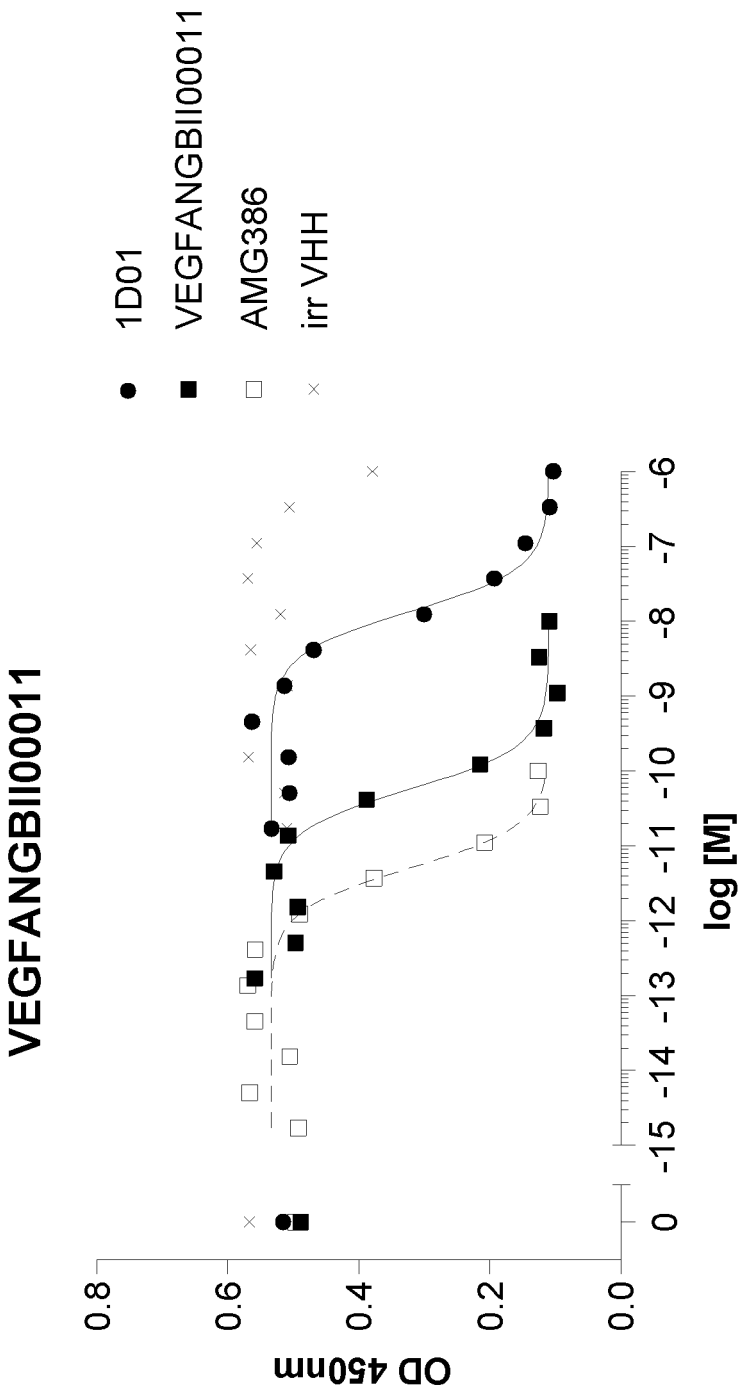

VEGFANGBII00011
1D01
VEGFANGBII00011
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15
log [M]

Figure 28-2F

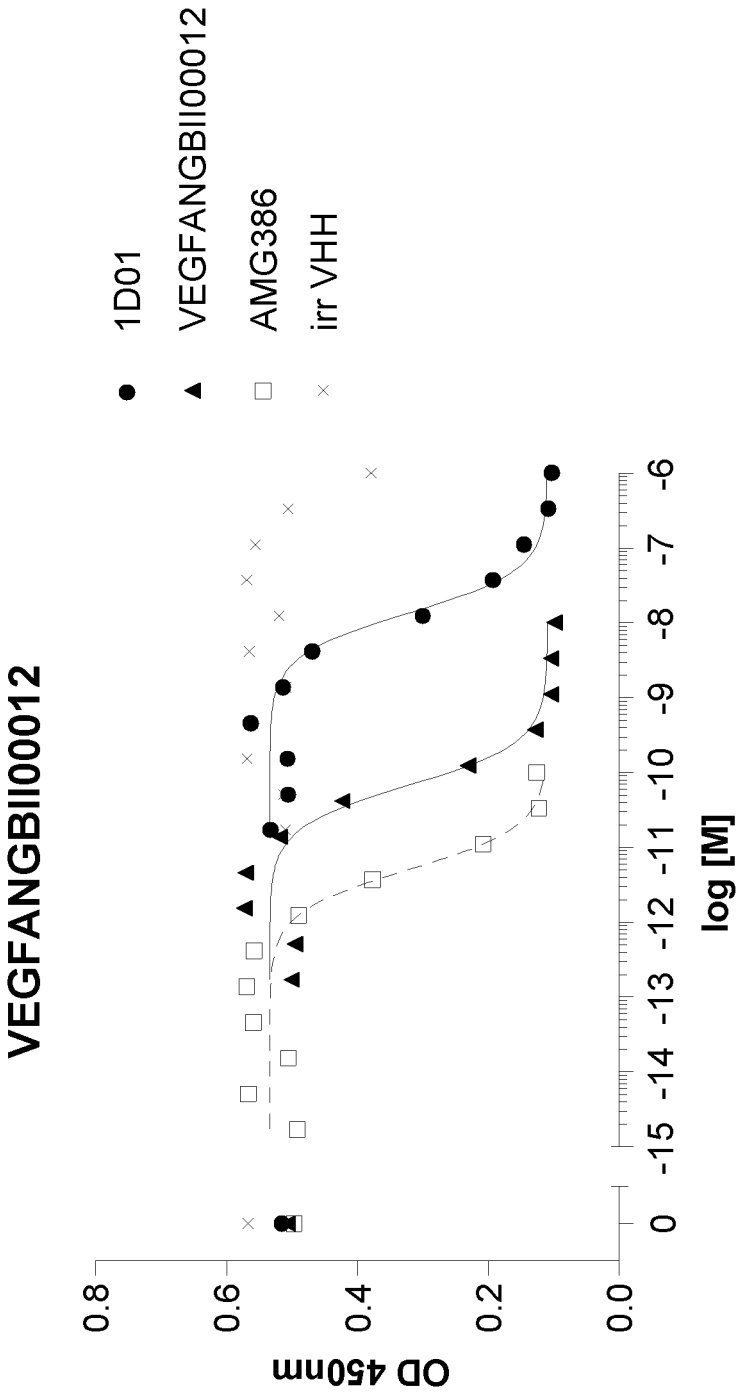

VEGFANGBII00012
1D01
VEGFANGBII00012
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-2G

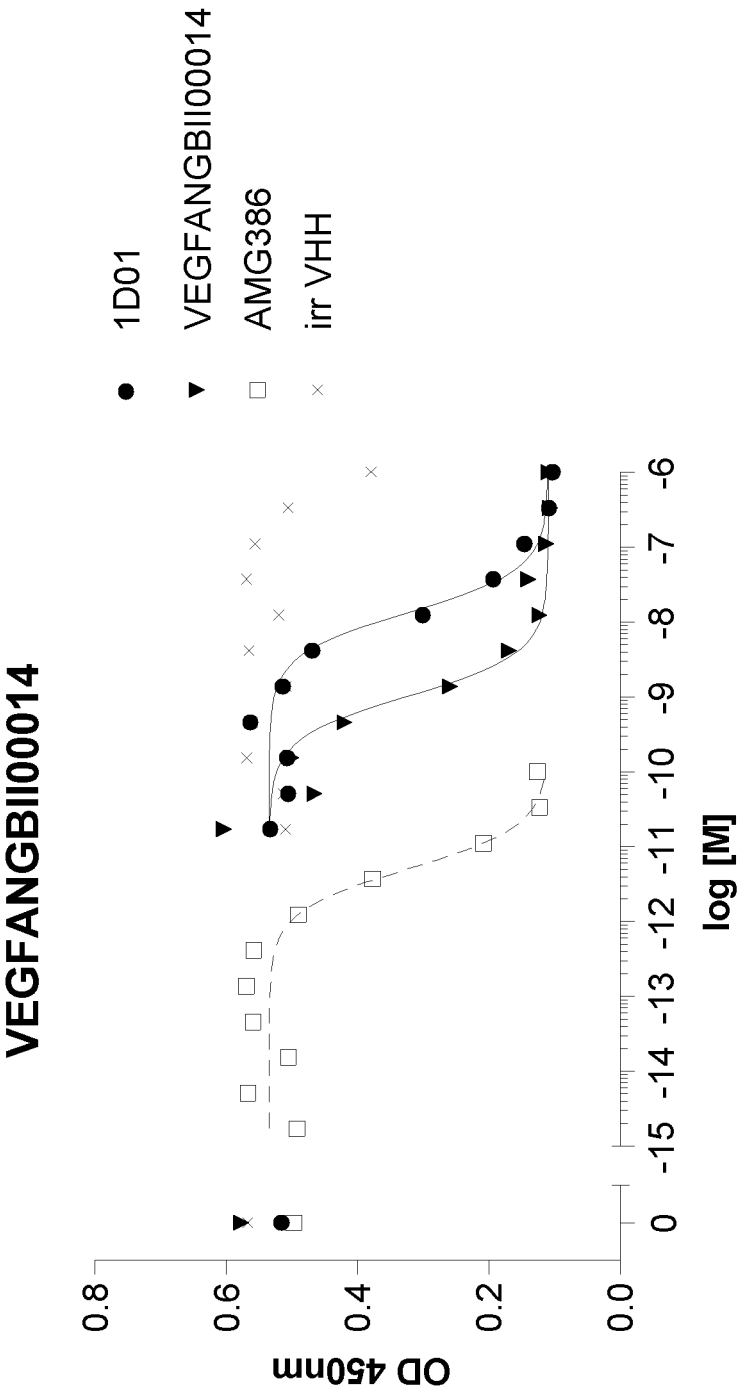

VEGFANGBII00014
1D01
VEGFANGBII00014
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
0.8
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3A

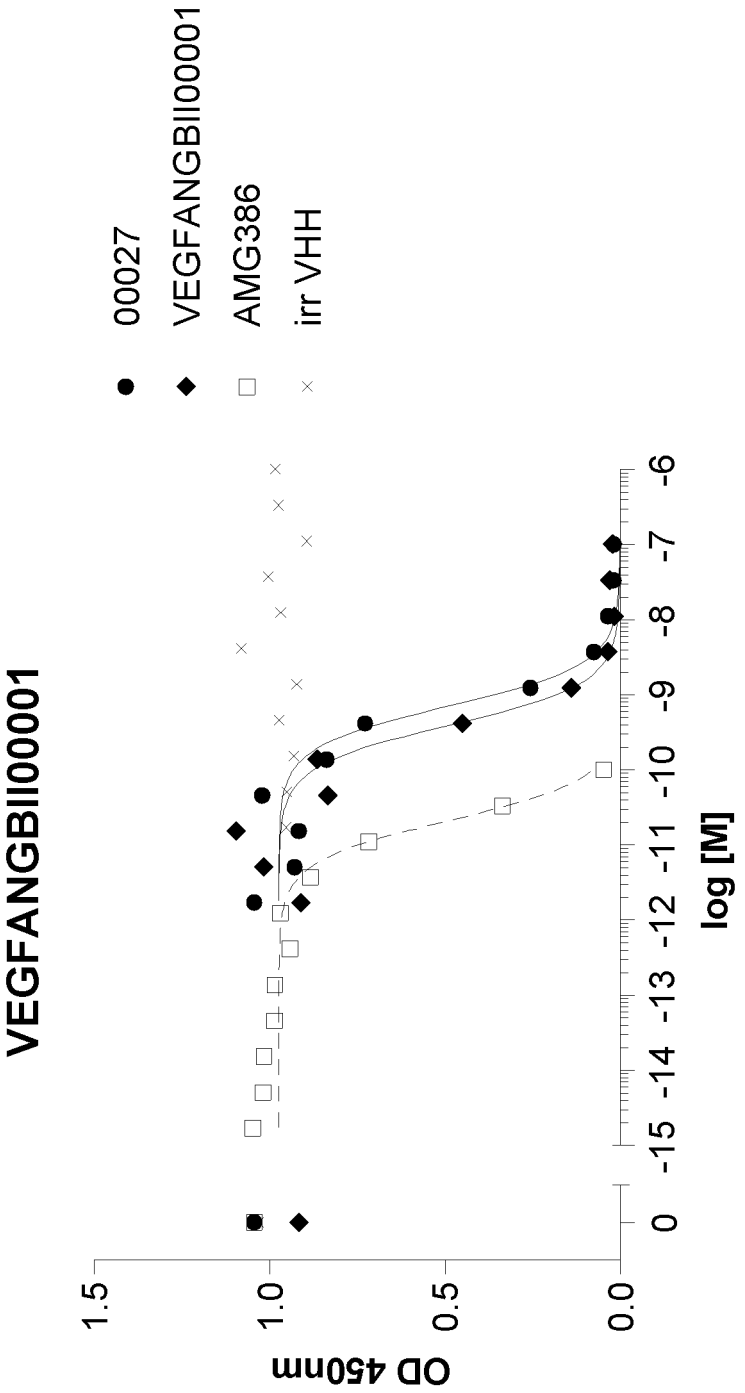

VEGFANGBII00001
00027
VEGFANGBII00001
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3B

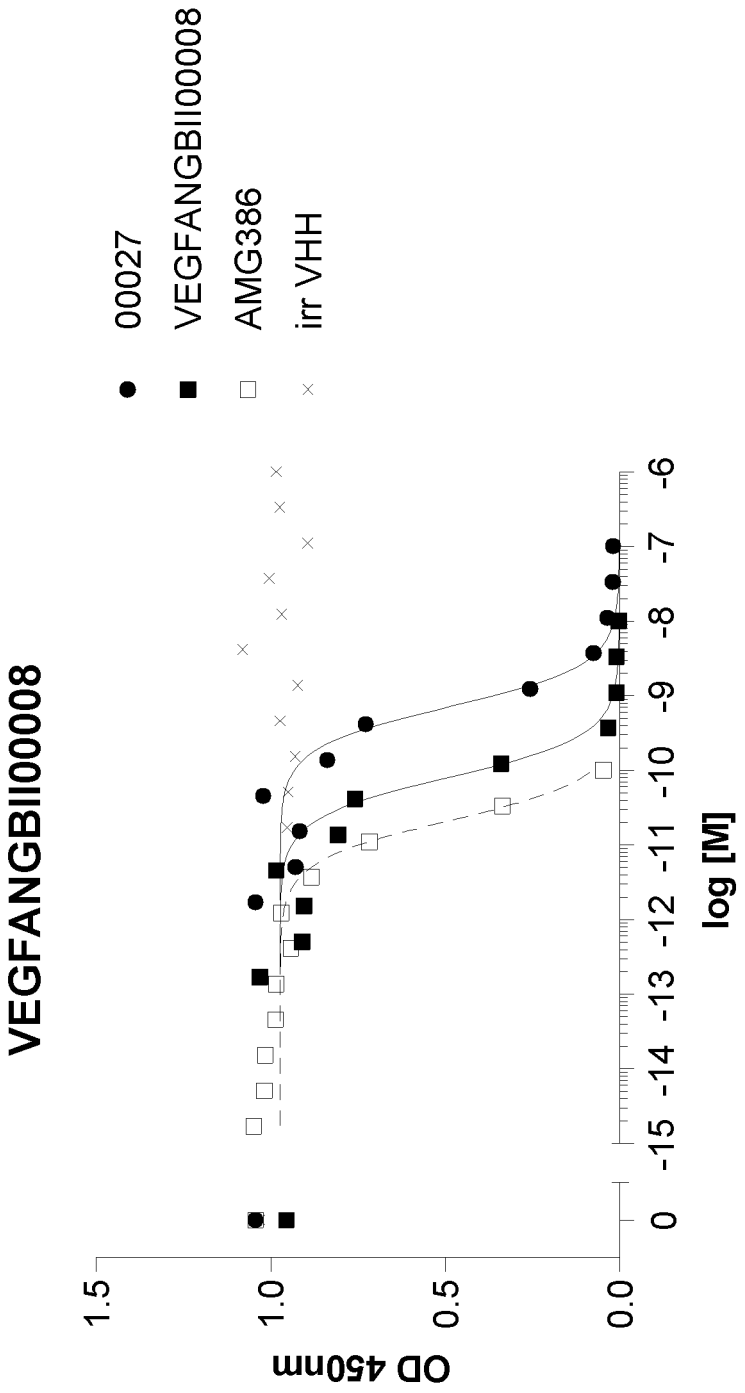

VEGFANGBII00008
00027
VEGFANGBII00008
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3C

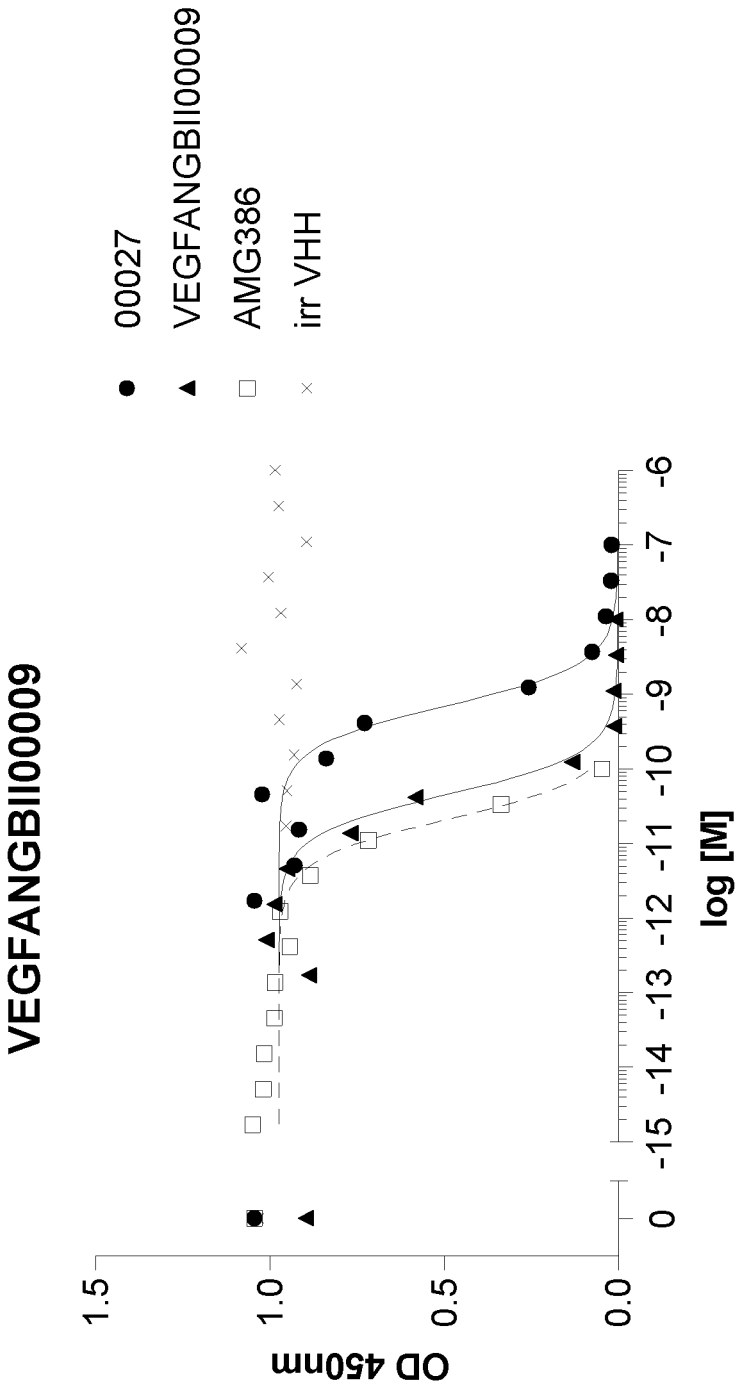

VEGFANGBII00009
00027
VEGFANGBII00009
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3D

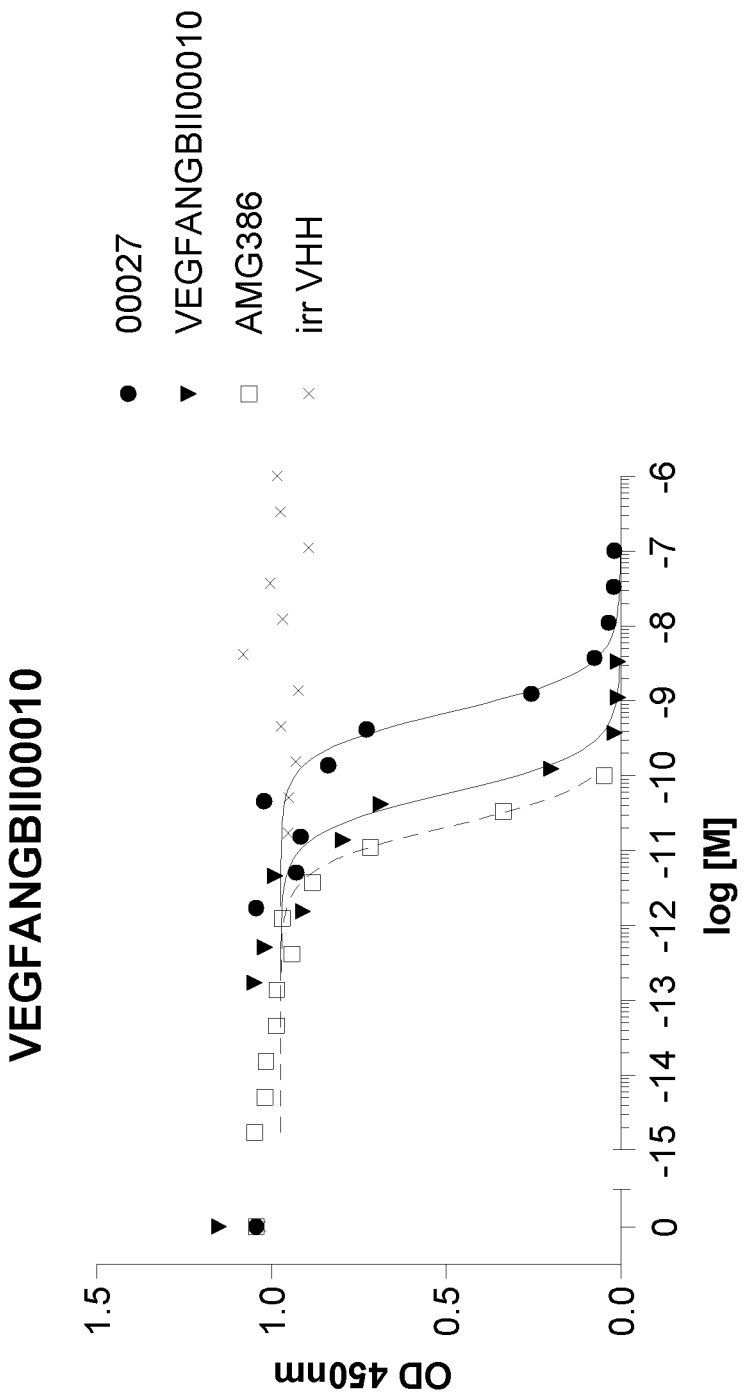

VEGFANGBII00010
00027
VEGFANGBII00010
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3E

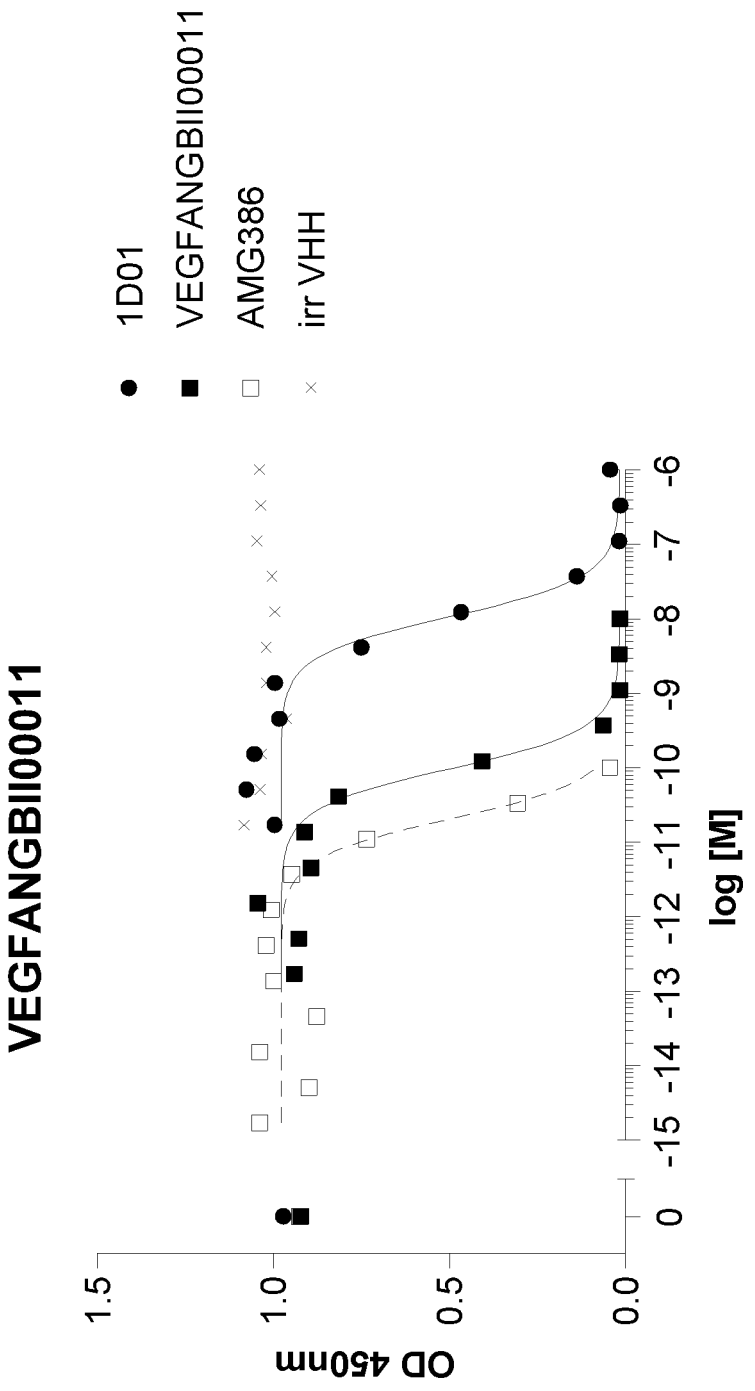

VEGFANGBII00011
1D01
VEGFANGBII00011
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3F

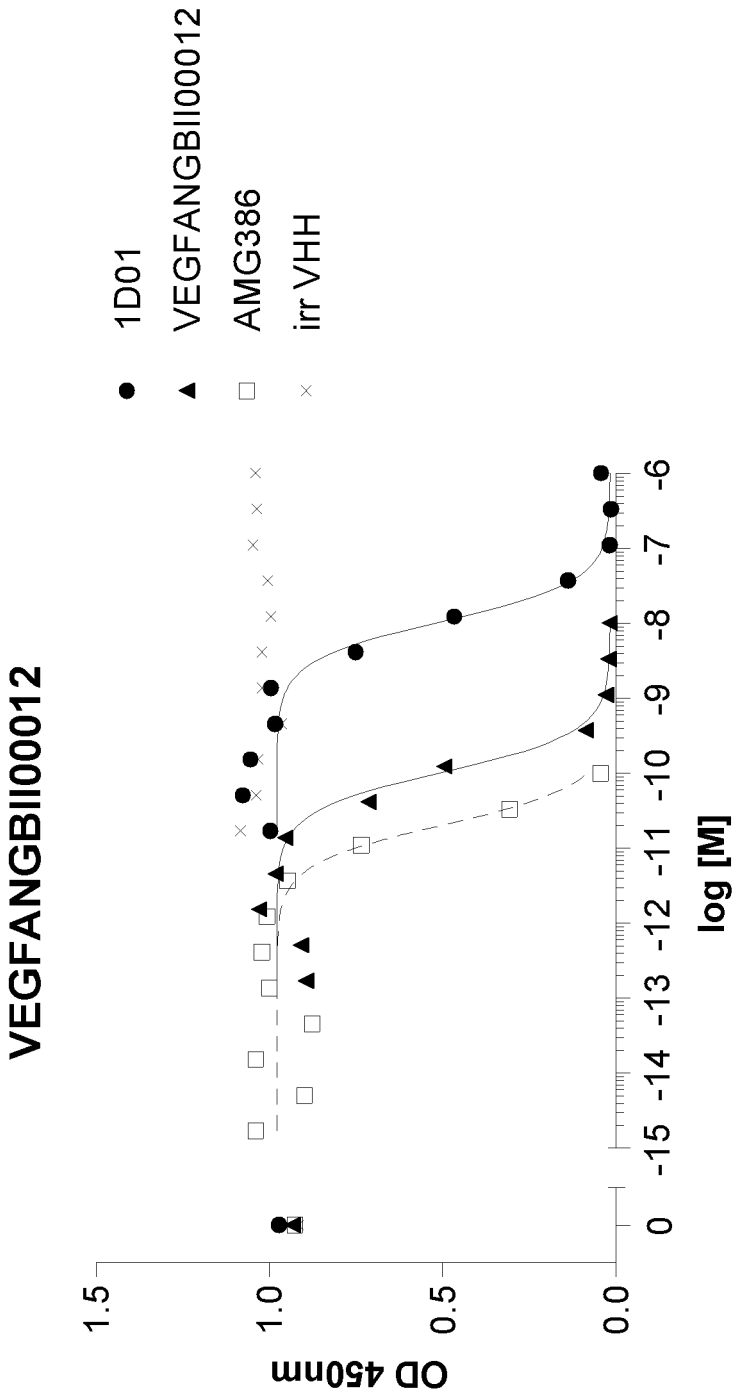

VEGFANGBII00012
1D01
VEGFANGBII00012
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 28-3G

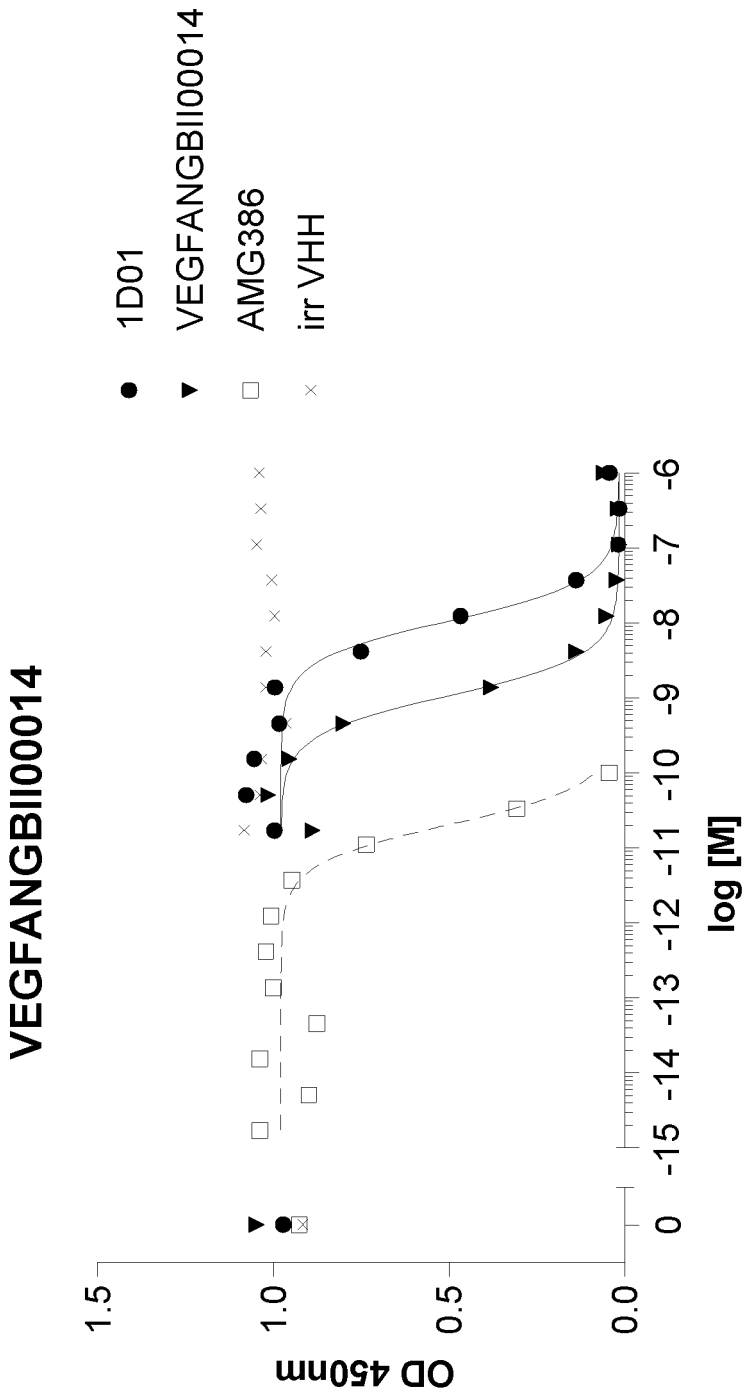

VEGFANGBII00014
1D01
VEGFANGBII00014
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 29A

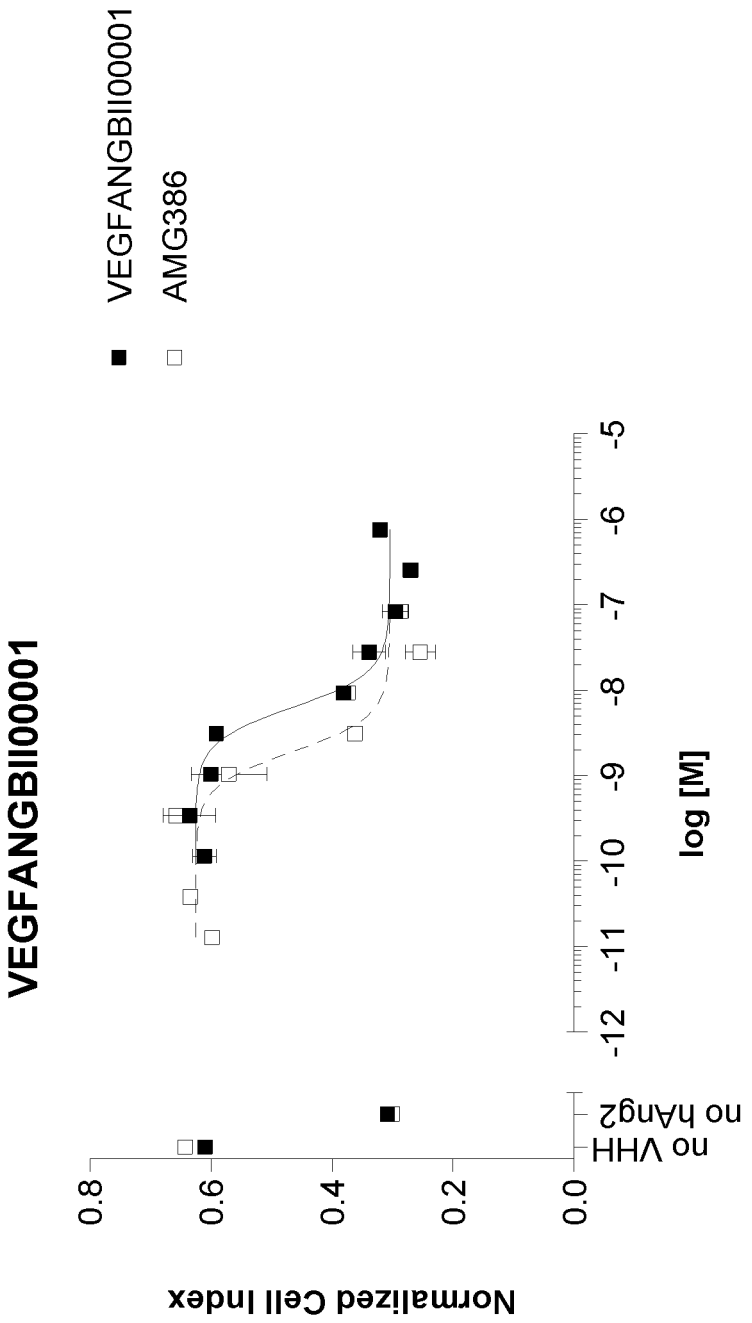

VEGFANGBII00001
VEGFANGBII00001
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-5
-6
-7
-8
-9
-10
-11
-12
log [M]

Figure 29B

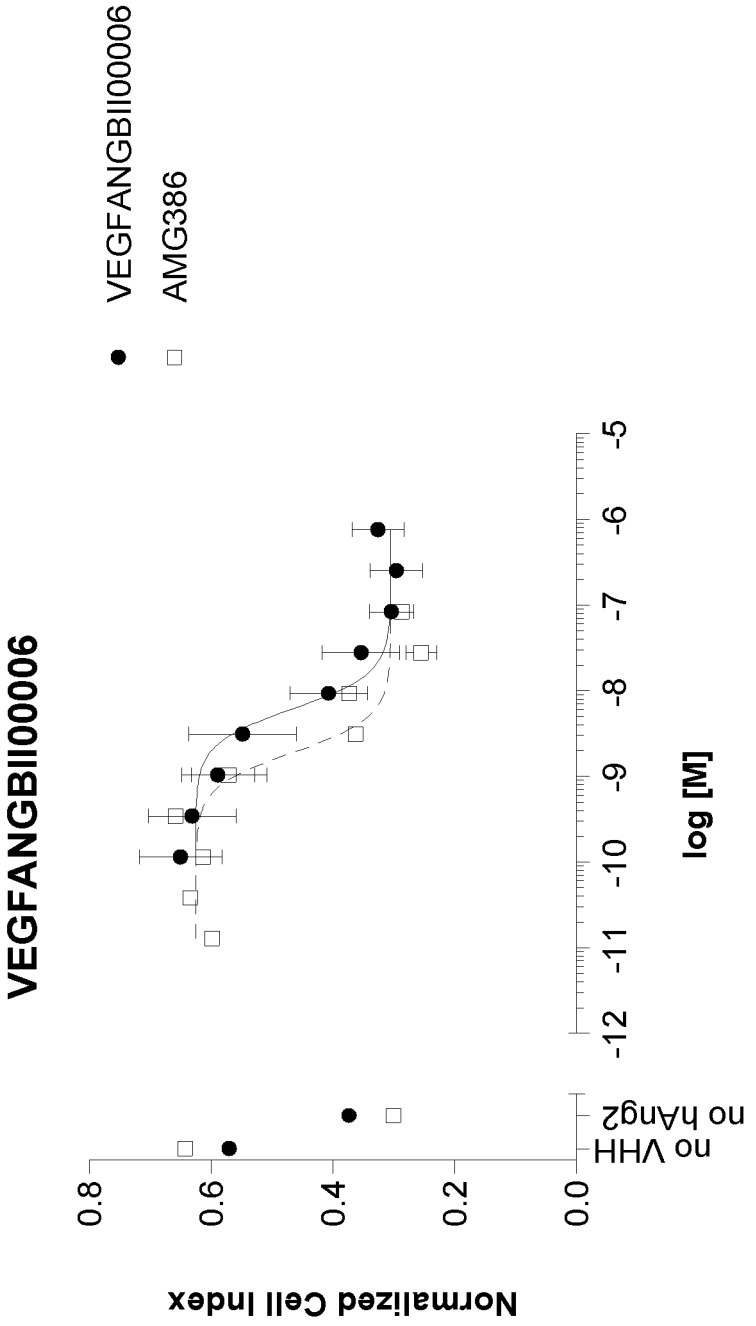

VEGFANGBII00006
VEGFANGBII00006
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-5
-6
-7
-8
-9
-10
-11
-12
log [M]

Figure 29C

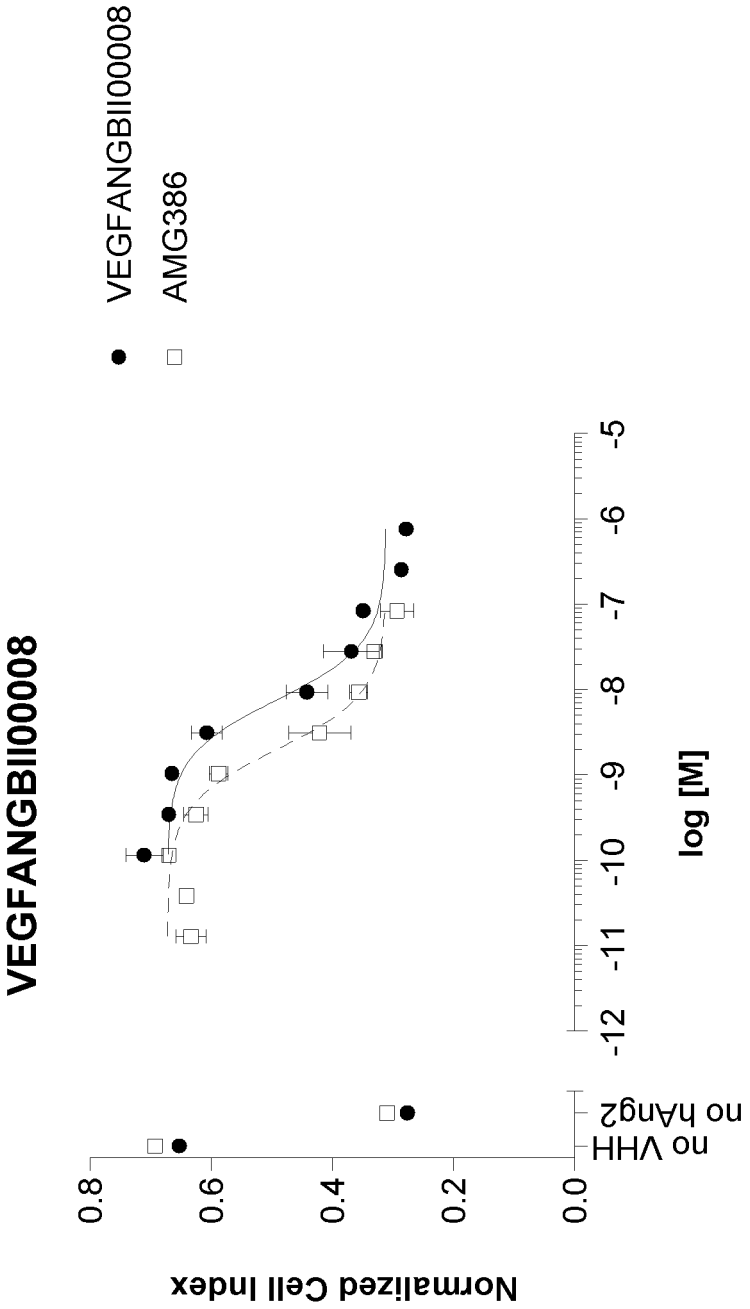

VEGFANGBII00008
VEGFANGBII00008
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-5
-6
-7
-8
-9
-10
-11
-12
log [M]

Figure 29D

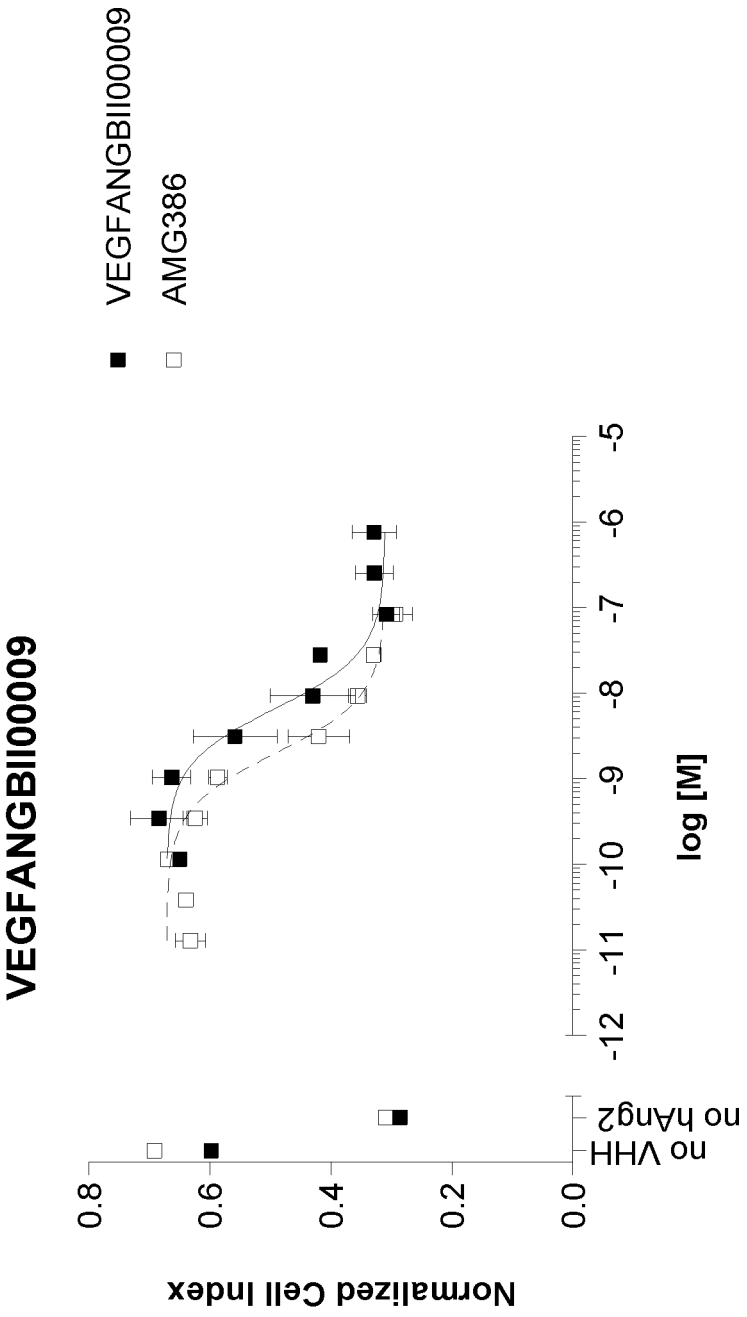

VEGFANGBII00009
VEGFANGBII00009
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-5
-6
-7
-8
-9
-10
-11
-12
log [M]

Figure 29E

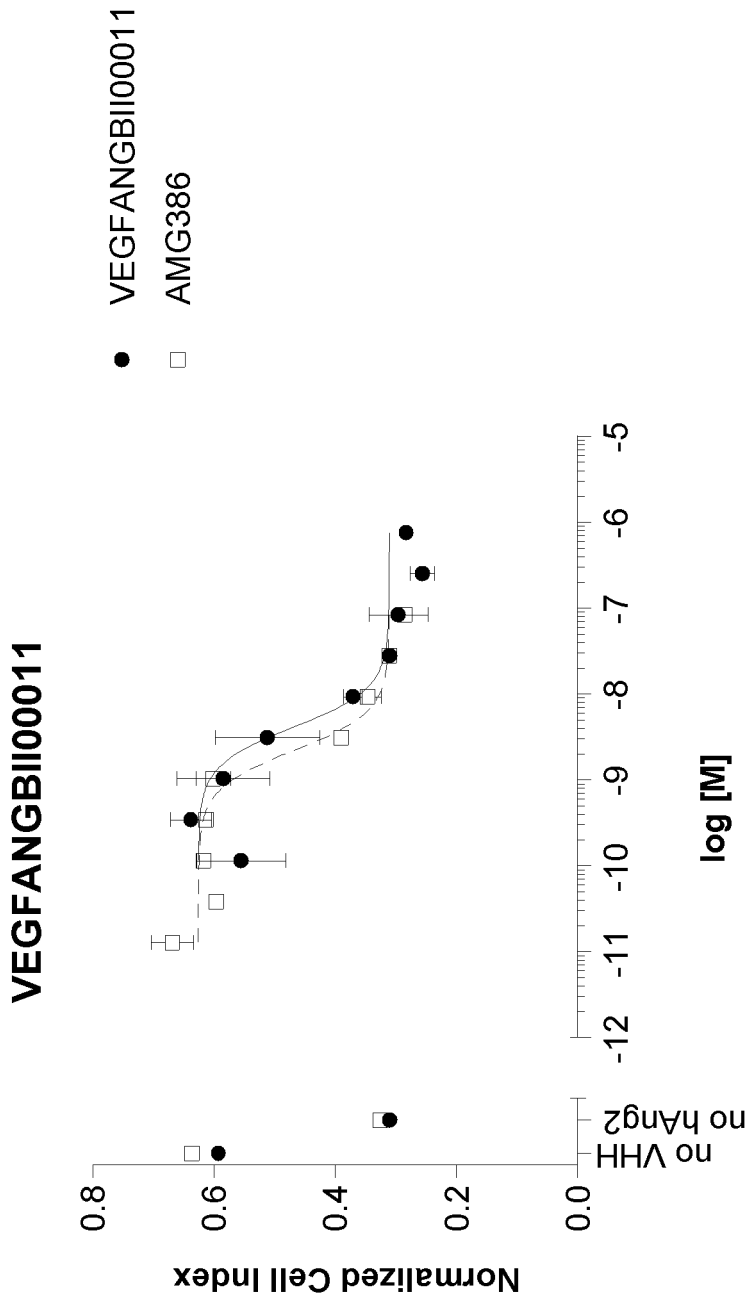

VEGFANGBII00011
VEGFANGBII00011
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-12
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 29F

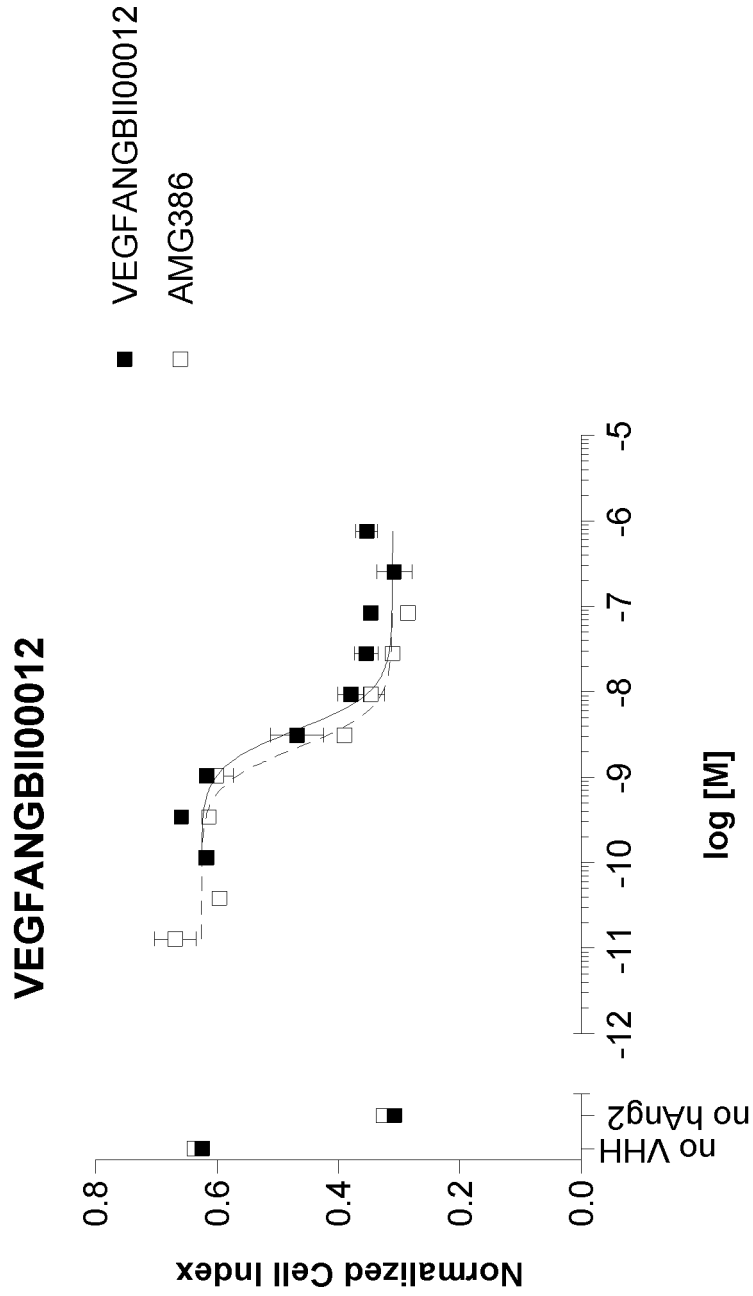

VEGFANGBII00012
VEGFANGBII00012
AMG386
Normalized Cell Index
0.0
0.2
0.4
0.6
0.8
no VHH
no hAng2
-12
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 30

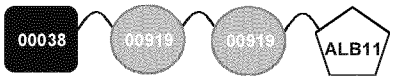
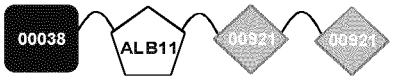
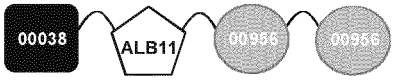
VHH ID	Format	Description
VEGFANGBII00015		VEGFBII00038-9gs-ALB11-9gs-00908
VEGFANGBII00016		VEGFBII00038-9gs-ALB11-9gs-00932
VEGFANGBII00017		VEGFBII00038-9gs-ALB11-9gs-00933
VEGFANGBII00018		VEGFBII00038-9gs-ALB11-9gs-00934
VEGFANGBII00019		VEGFBII00038-9gs-ALB11-9gs-00935
VEGFANGBII00020		VEGFBII00038-9gs-ALB11-9gs-00936
VEGFANGBII00021		VEGFBII00038-9gs-ALB11-9gs-00937
VEGFANGBII00022		VEGFBII00038-9gs-ALB11-9gs-00938
VEGFANGBII00023		VEGFBII00038-9gs-ALB11-9gs-00919-9gs-00919
VEGFANGBII00024		VEGFBII00038-9gs-00919-9gs-00919-9gs-ALB11
VEGFANGBII00025		VEGFBII00038-9gs-ALB11-9gs-00921-9gs-00921
VEGFANGBII00026		VEGFBII00038-9gs-00921-9gs-00921-9gs-ALB11
VEGFANGBII00027		VEGFBII00038-9gs-ALB11-9gs-00928
VEGFANGBII00028		VEGFBII00038-9gs-ALB11-9gs-00956-9gs-00956

Figure 30 (cont'd)

Legend:

	Description		Description
	VEGFBII00038		00937
	00908		00938
	00919		00956
	00932		00921
	00933		00928
	00934		ALB11
	00935		*9 GlySer* linker
	00936		

Figure 31-1A

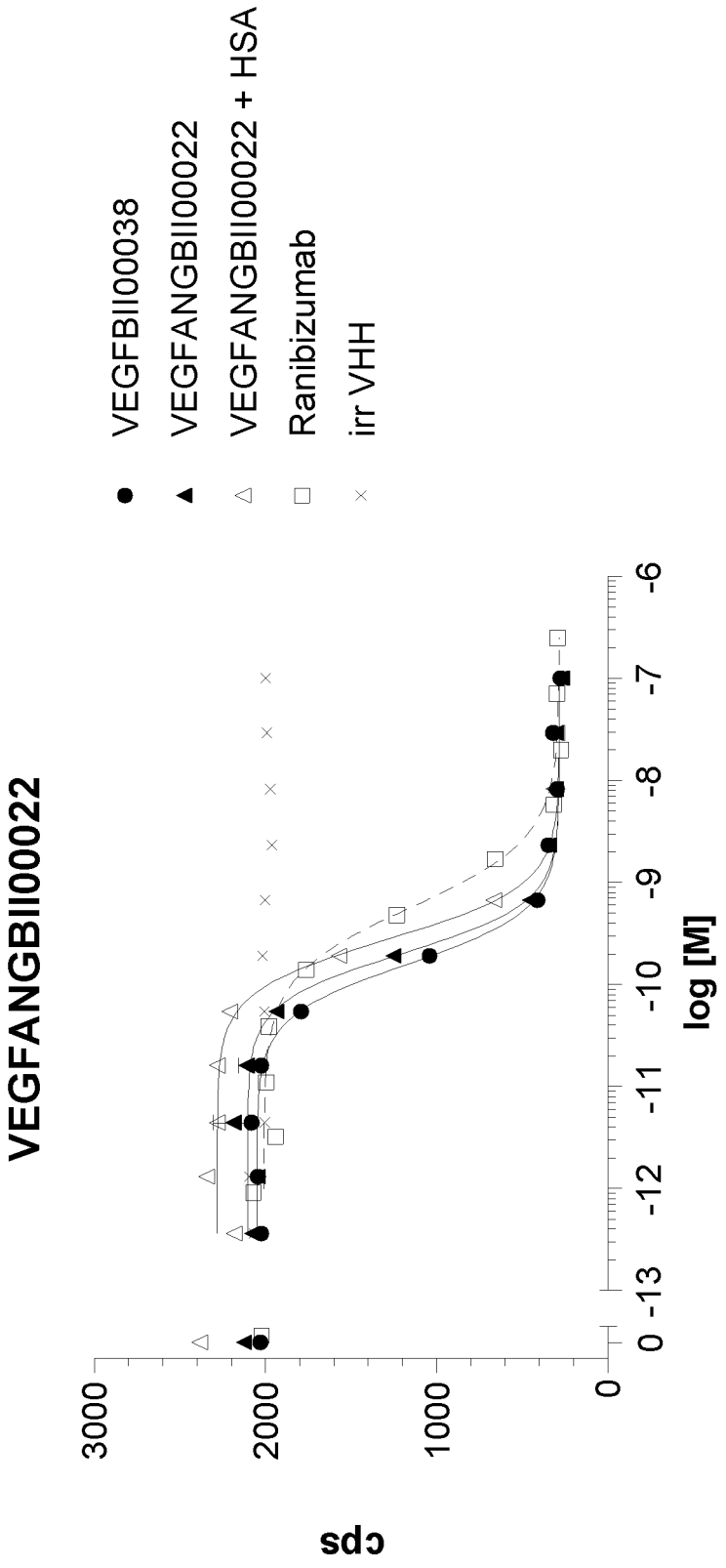

VEGFANGBII00022
VEGFBII00038
VEGFANGBII00022
VEGFANGBII00022 + HSA
Ranibizumab
irr VHH
cps
3000
2000
1000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 31-1B

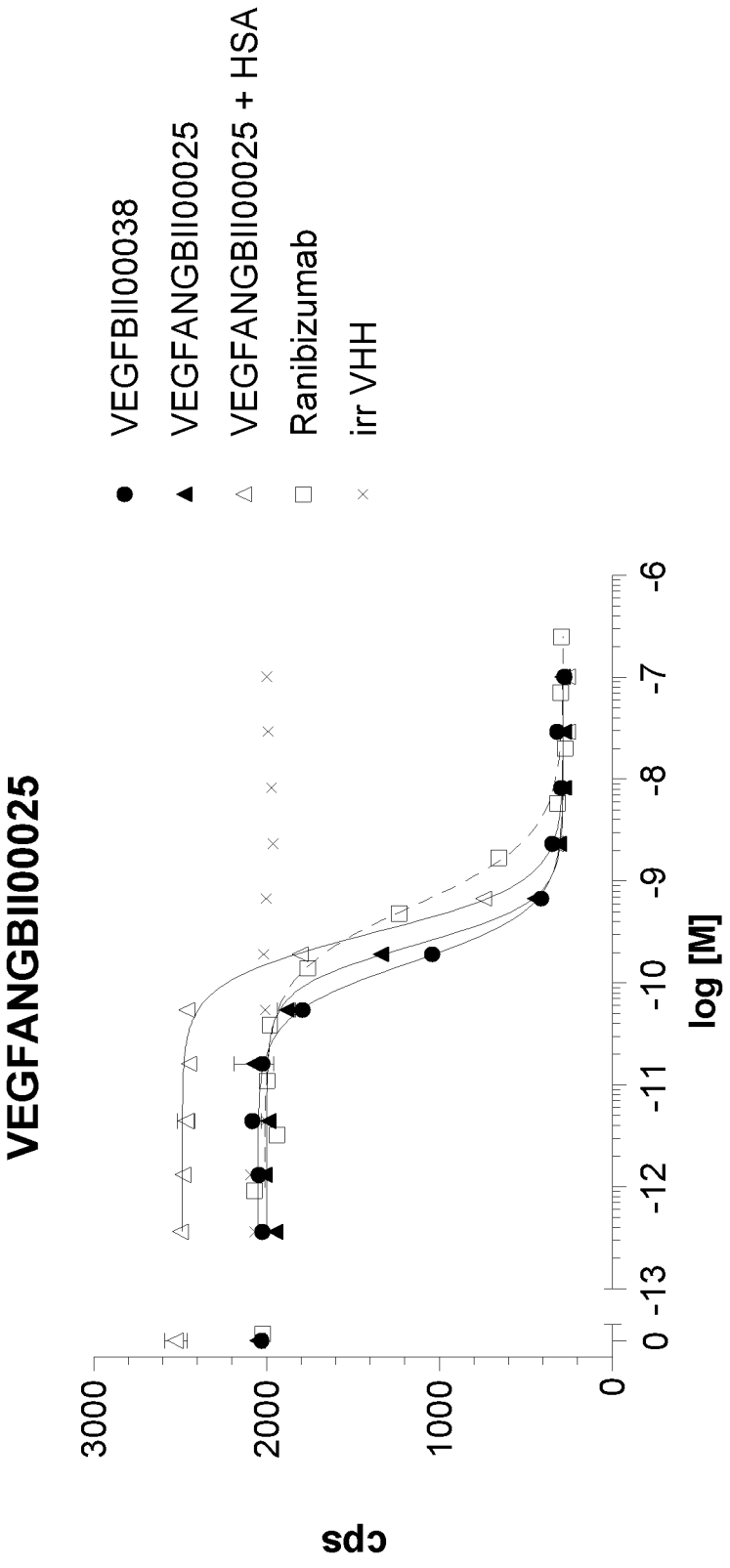

VEGFBII00038
VEGFANGBII00025
VEGFANGBII00025 + HSA
Ranibizumab
irr VHH
VEGFANGBII00025
cps
3000
2000
1000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 31-1C

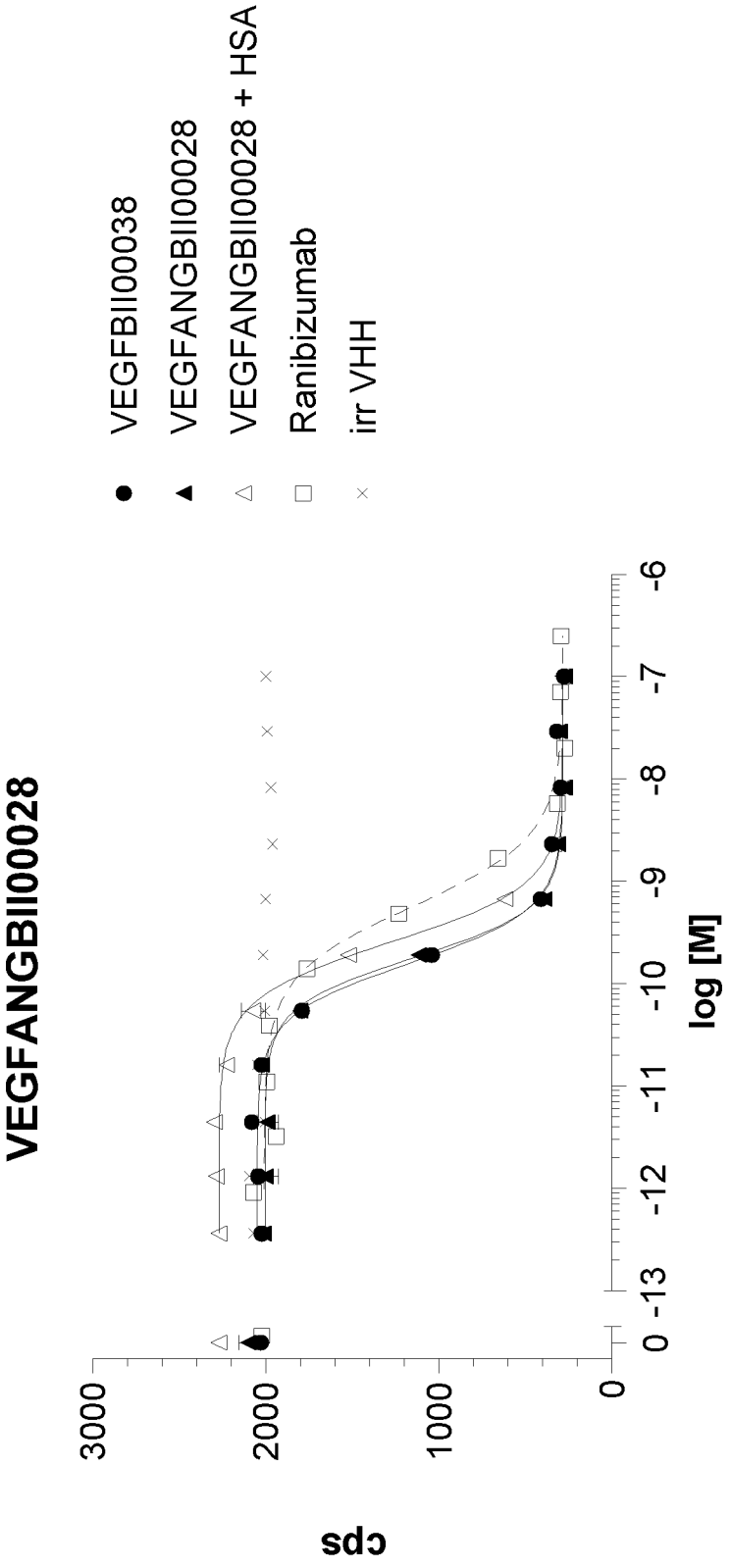

VEGFBII00038
VEGFANGBII00028
VEGFANGBII00028 + HSA
Ranibizumab
irr VHH
VEGFANGBII00028
cps
3000
2000
1000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 31-2A

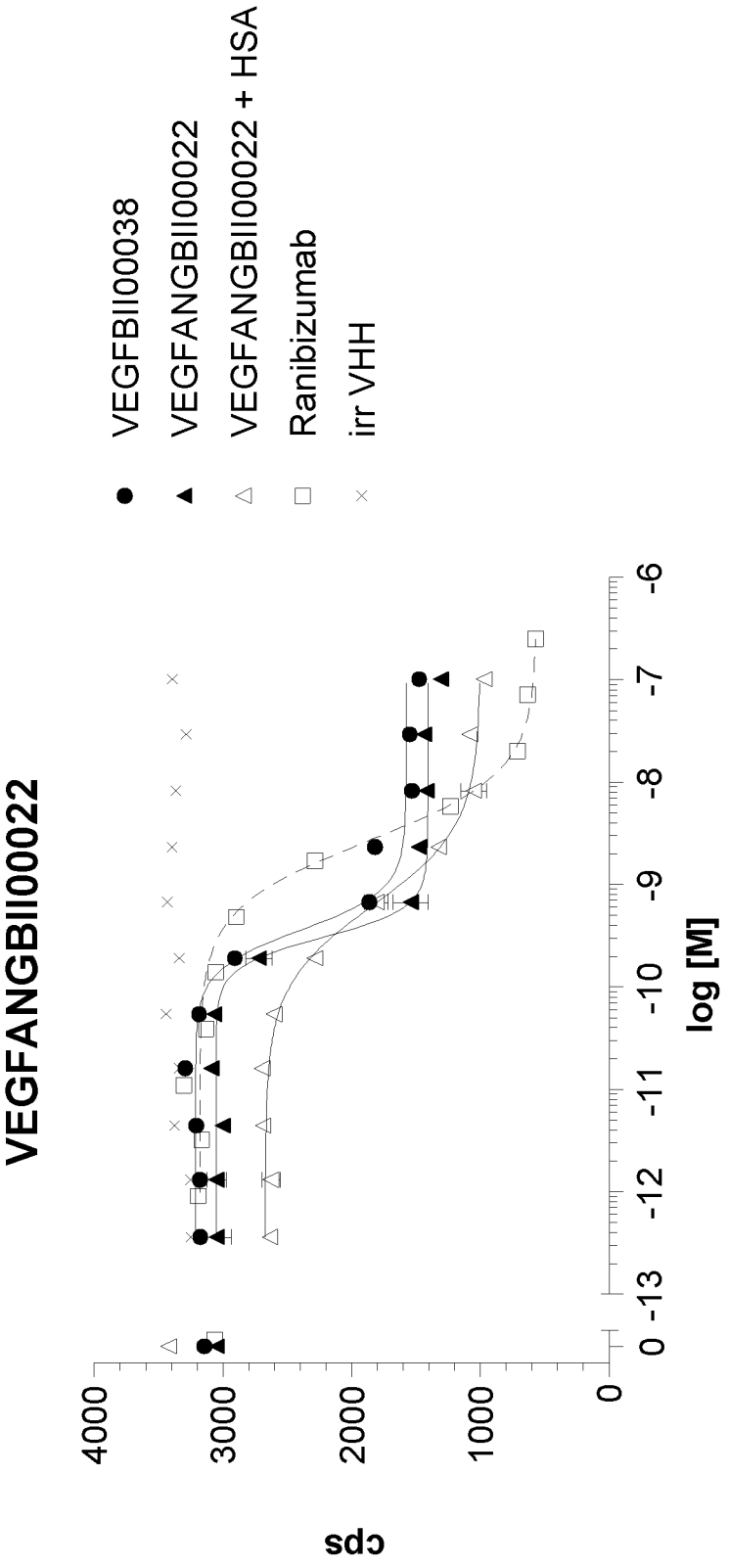

VEGFANGBII00022
VEGFBII00038
VEGFANGBII00022
VEGFANGBII00022 + HSA
Ranibizumab
irr VHH
cps
4000
3000
2000
1000
0
0
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 31-2B

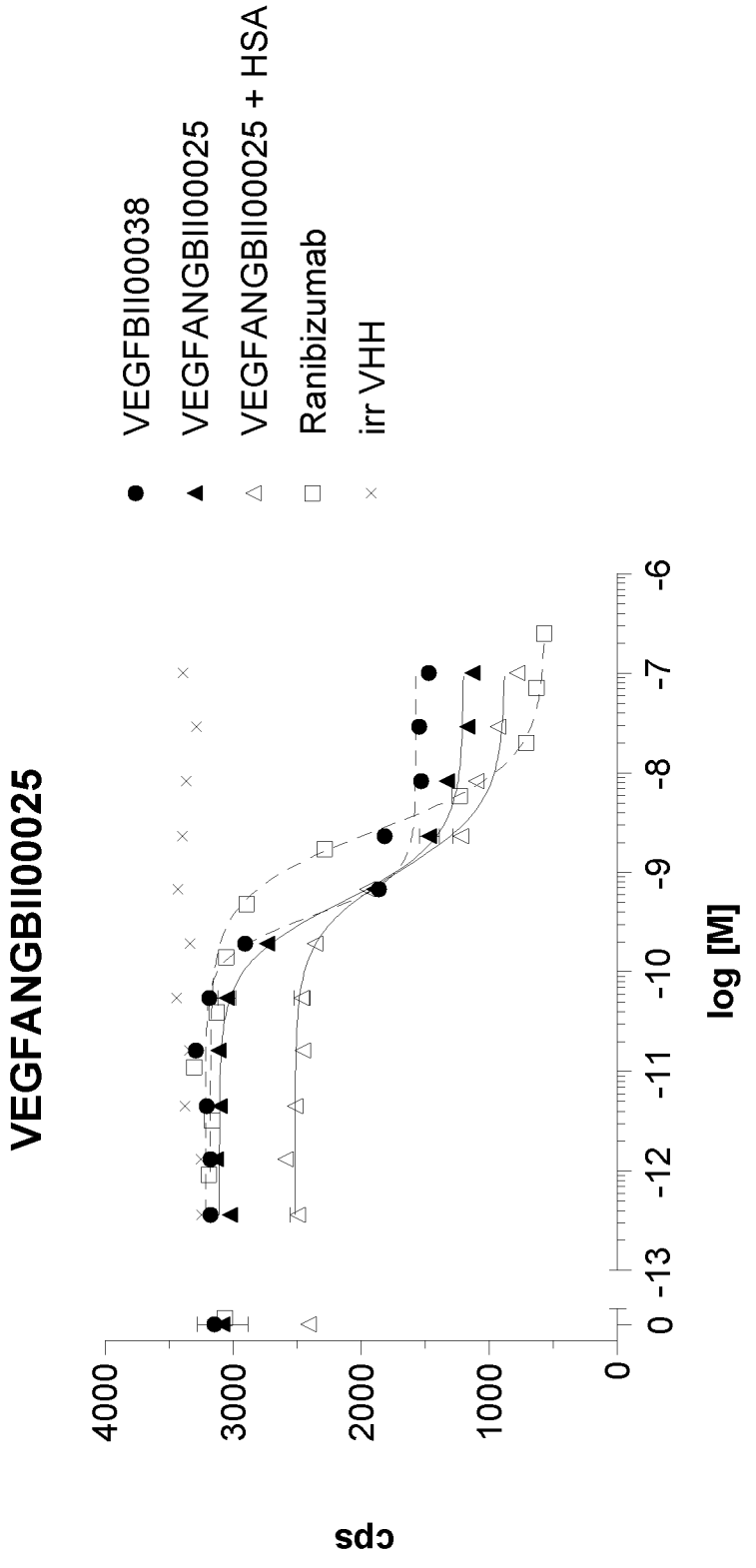

VEGFANGBII00025
VEGFBII00038
VEGFANGBII00025
VEGFANGBII00025 + HSA
Ranibizumab
irr VHH
cps
4000
3000
2000
1000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 31-2C

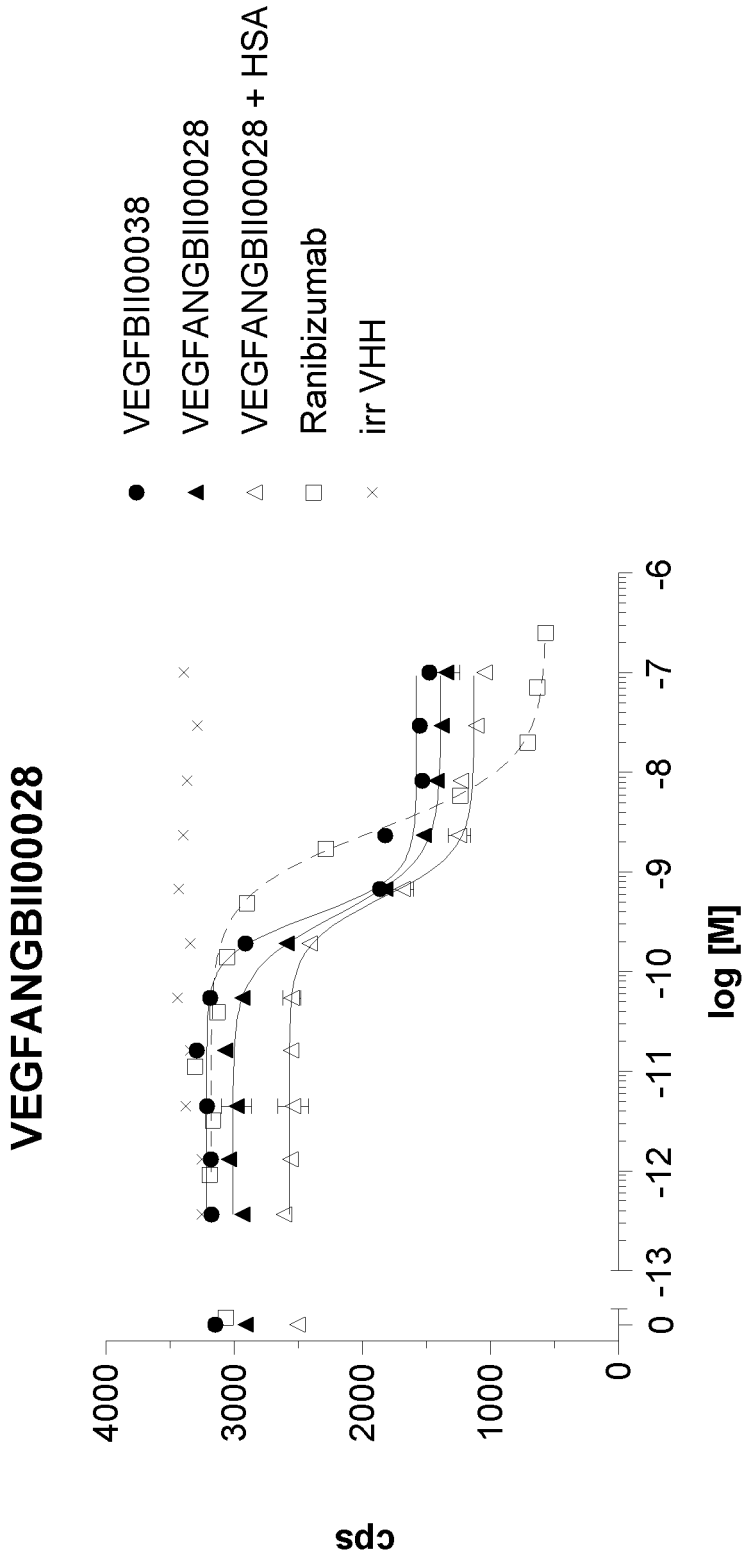

VEGFANGBII00028
VEGFBII00038
VEGFANGBII00028
VEGFANGBII00028 + HSA
Ranibizumab
irr VHH
cps
4000
3000
2000
1000
0
0 -13 -12 -11 -10 -9 -8 -7 -6
log [M]

Figure 32A

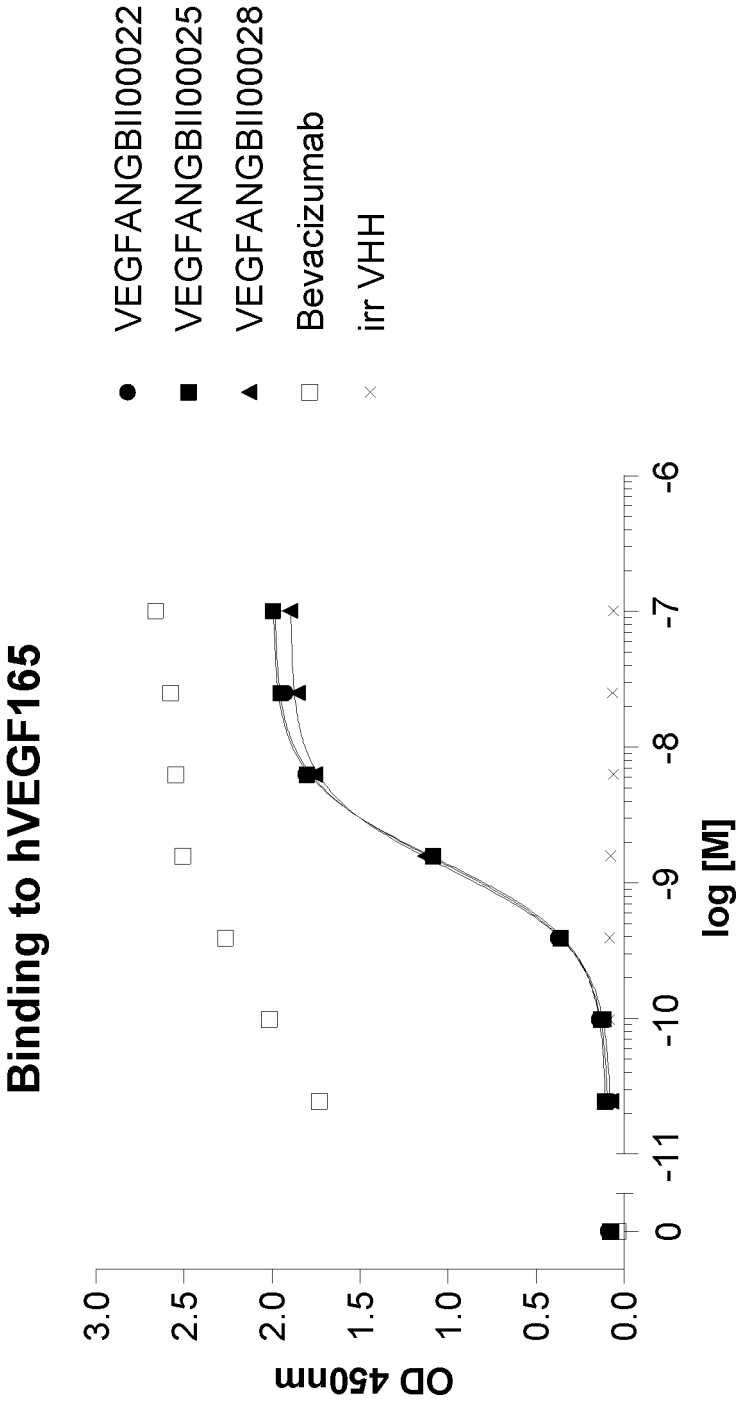

Binding to hVEGF165
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
Bevacizumab
irr VHH
OD 450nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
log [M]

Figure 32B

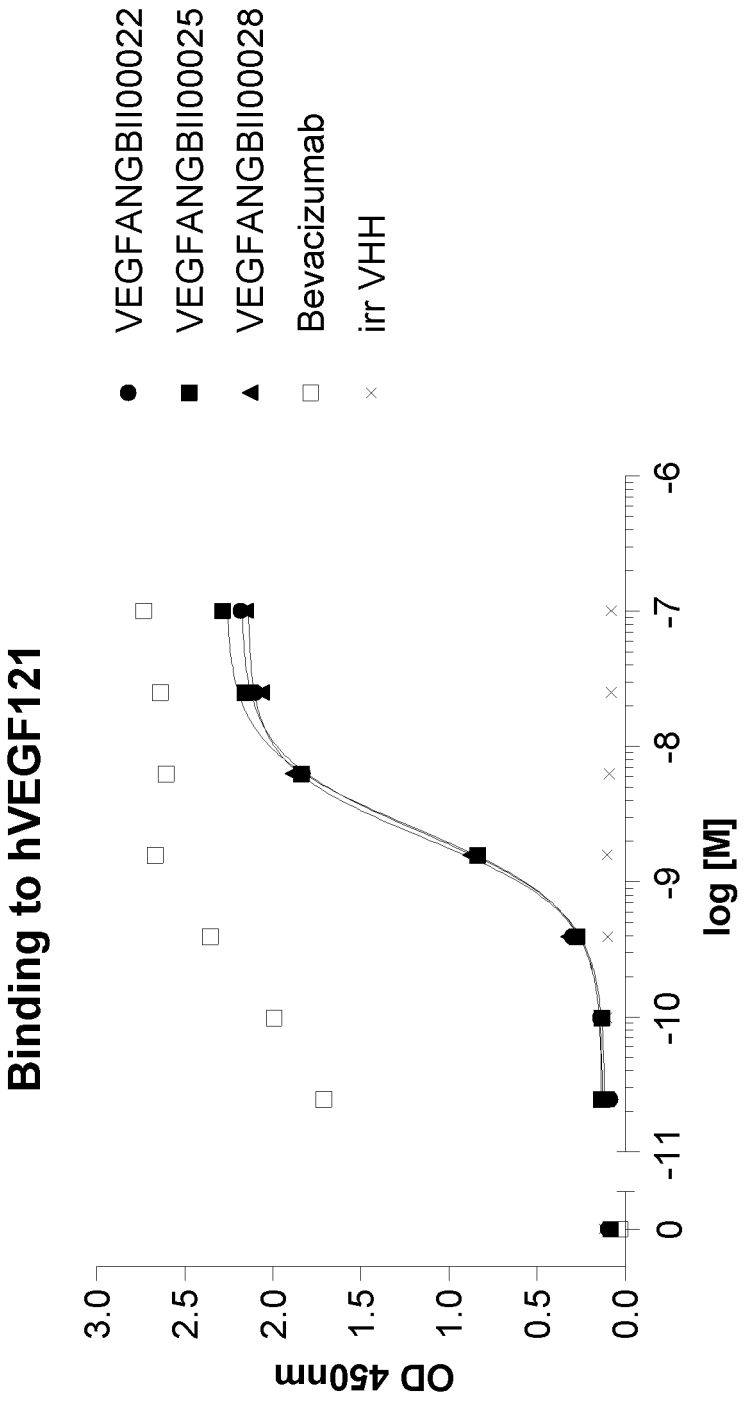

Binding to hVEGF121
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
Bevacizumab
irr VHH
OD 450nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
log [M]

Figure 33A

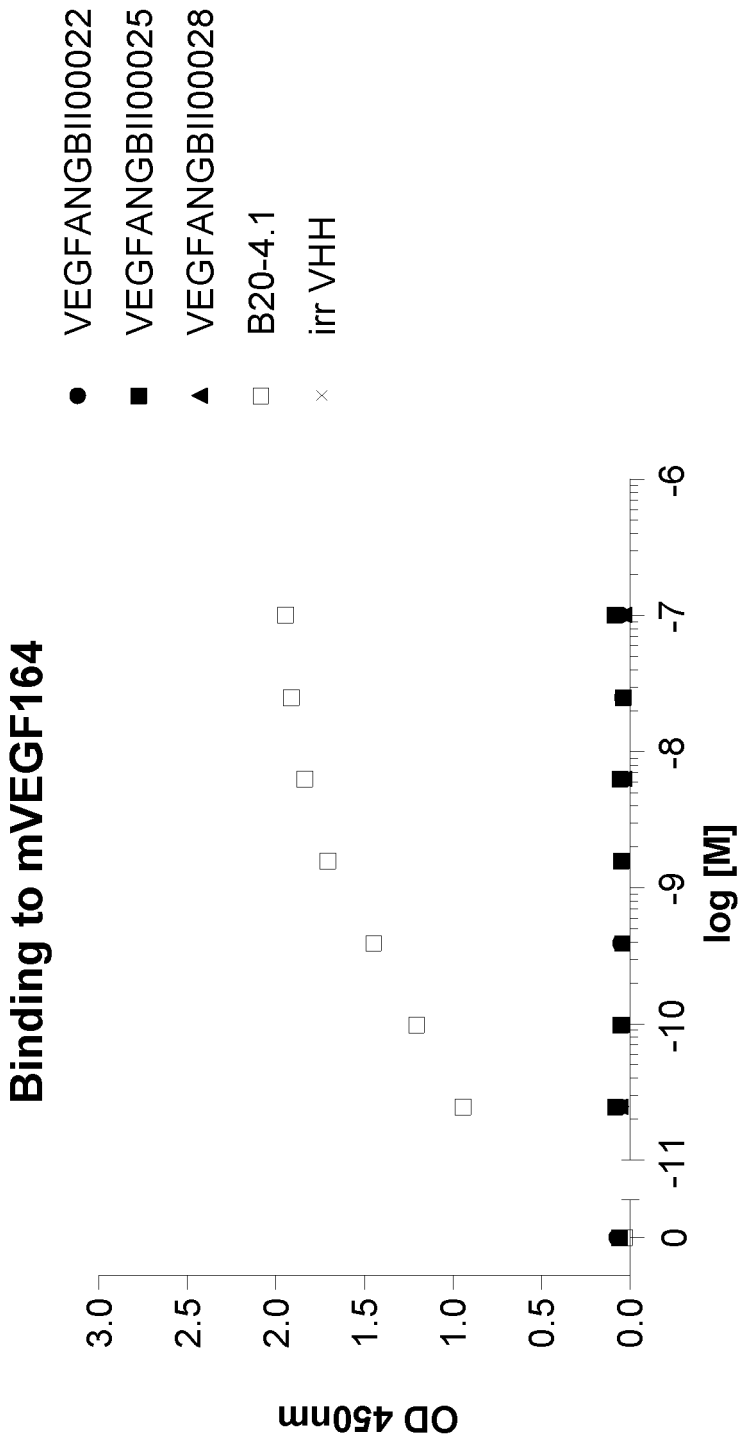

Binding to mVEGF164
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
B20-4.1
irr VHH
OD 450nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
log [M]

Figure 33B

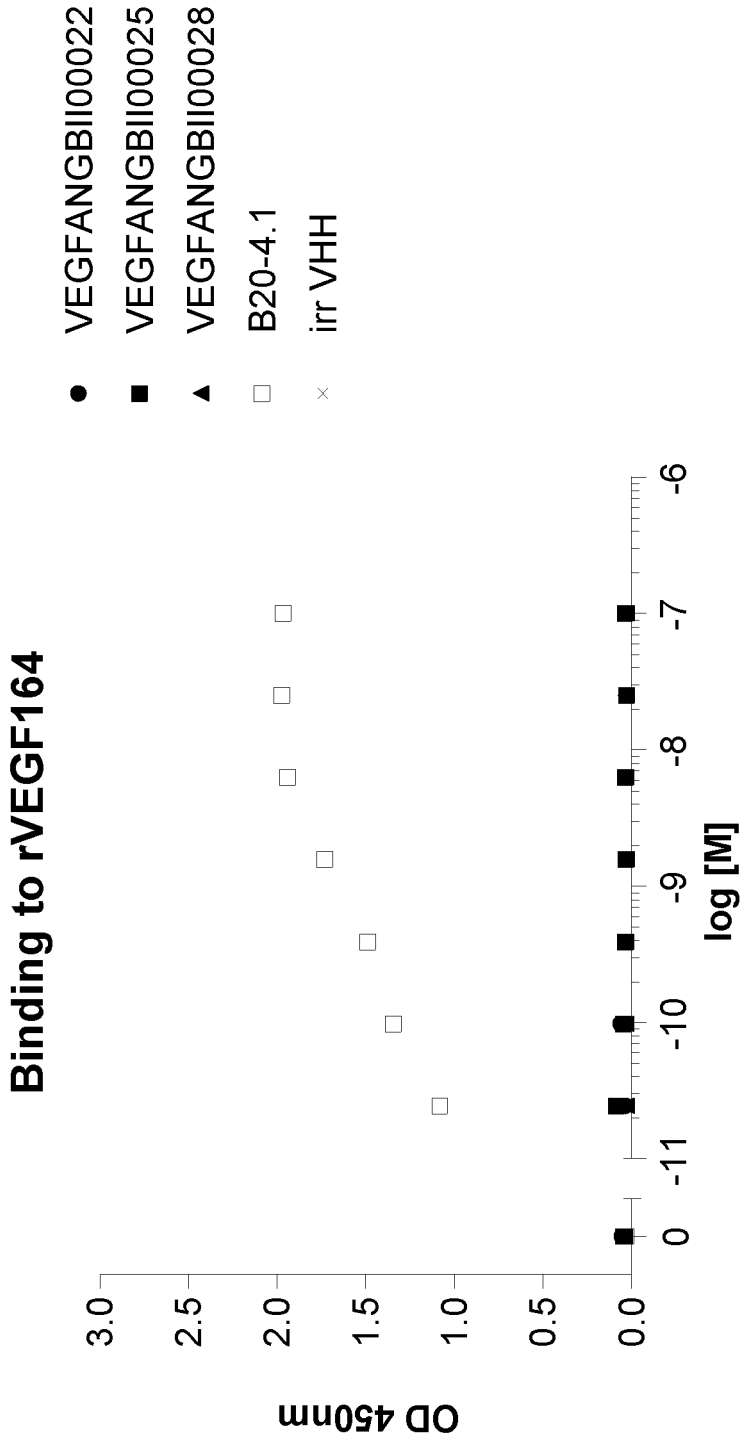

Binding to rVEGF164
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
B20-4.1
irr VHH
OD 450nm
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
log [M]

Figure 34A

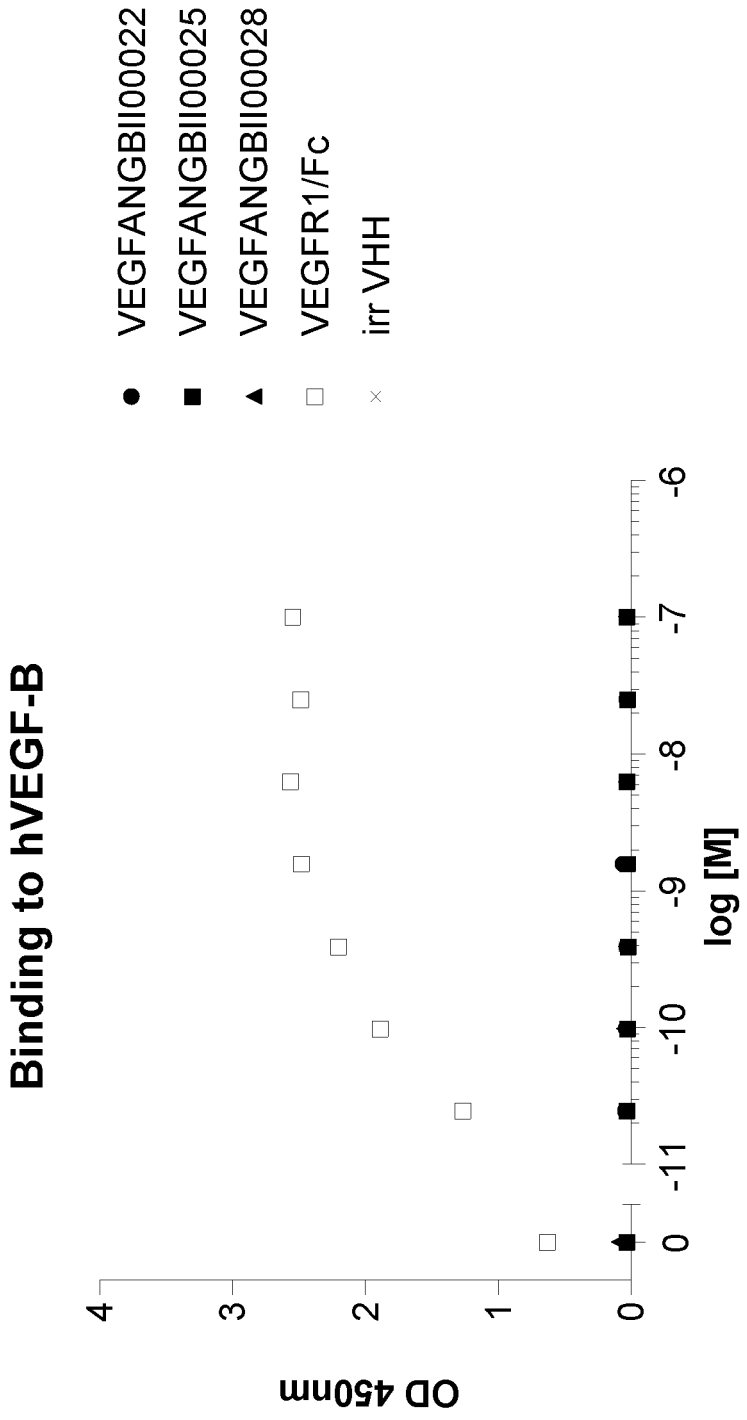

VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
VEGFR1/Fc
irr VHH
Binding to hVEGF-B
OD 450nm
0
1
2
3
4
0
-11
-10
-9
-8
-7
-6
log [M]

Figure 34B

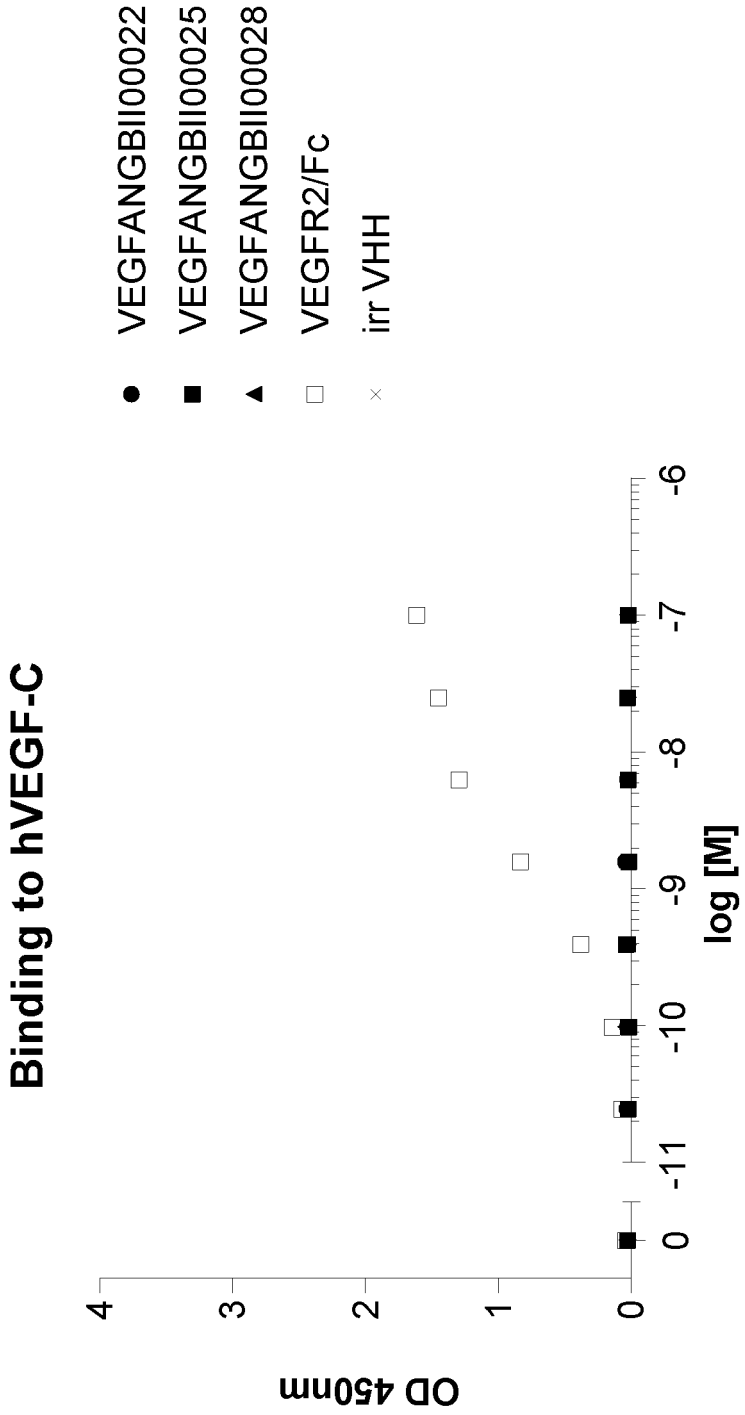

Binding to hVEGF-C
OD 450nm
0
1
2
3
4
log [M]
0
-11
-10
-9
-8
-7
-6
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
VEGFR2/Fc
irr VHH

Figure 34C

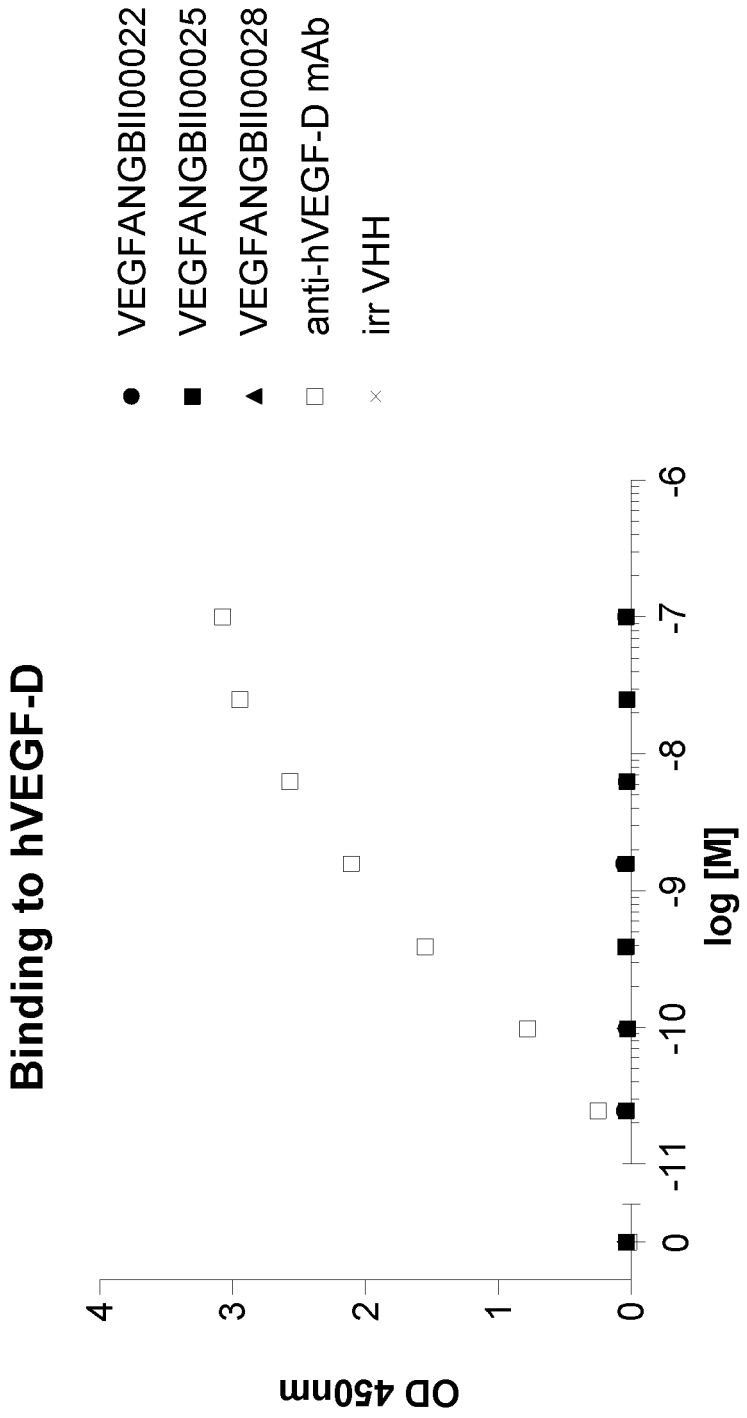

Binding to hVEGF-D
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
anti-hVEGF-D mAb
irr VHH
OD 450nm
0
1
2
3
4
log [M]
-6
-7
-8
-9
-10
-11
0

Figure 34D

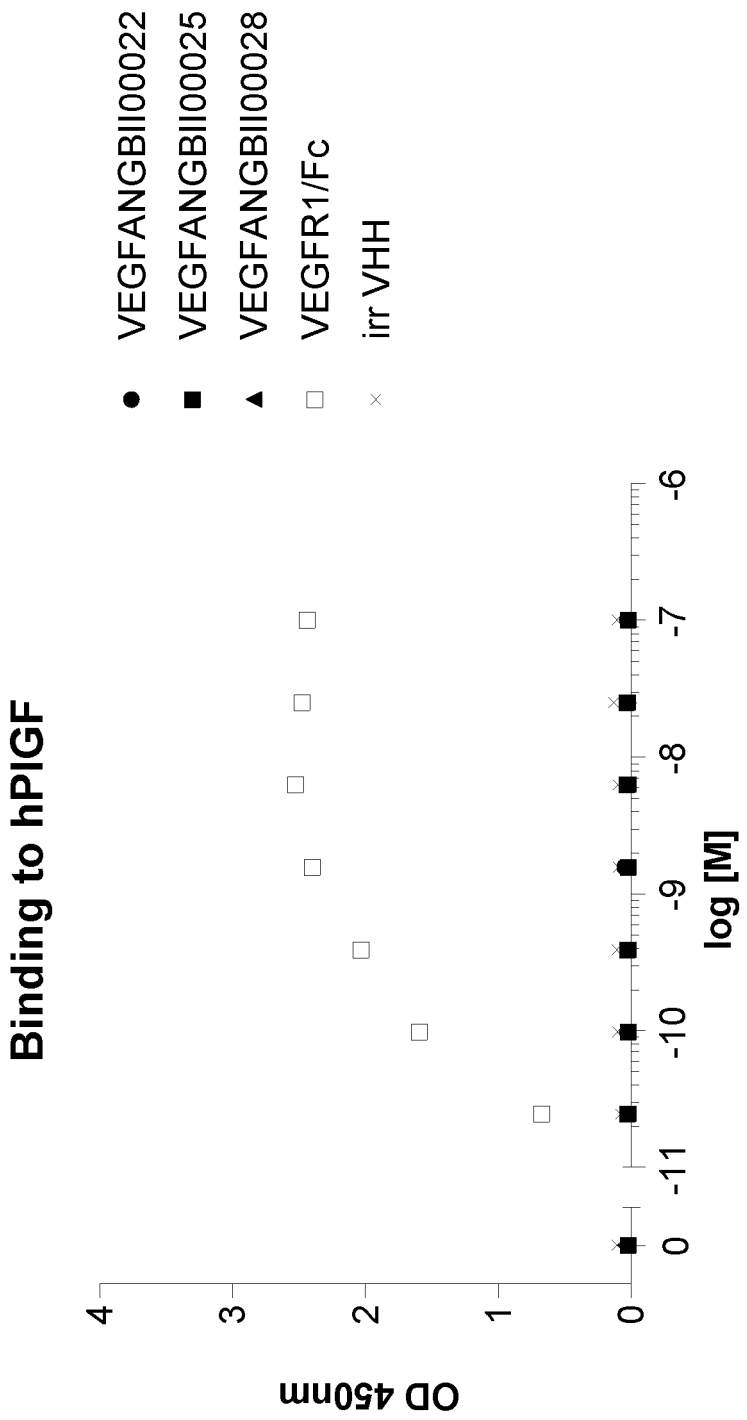

Binding to hPIGF
OD 450nm
0
1
2
3
4
log [M]
0
-11
-10
-9
-8
-7
-6
VEGFANGBII00022
VEGFANGBII00025
VEGFANGBII00028
VEGFR1/Fc
irr VHH

Figure 35-1A

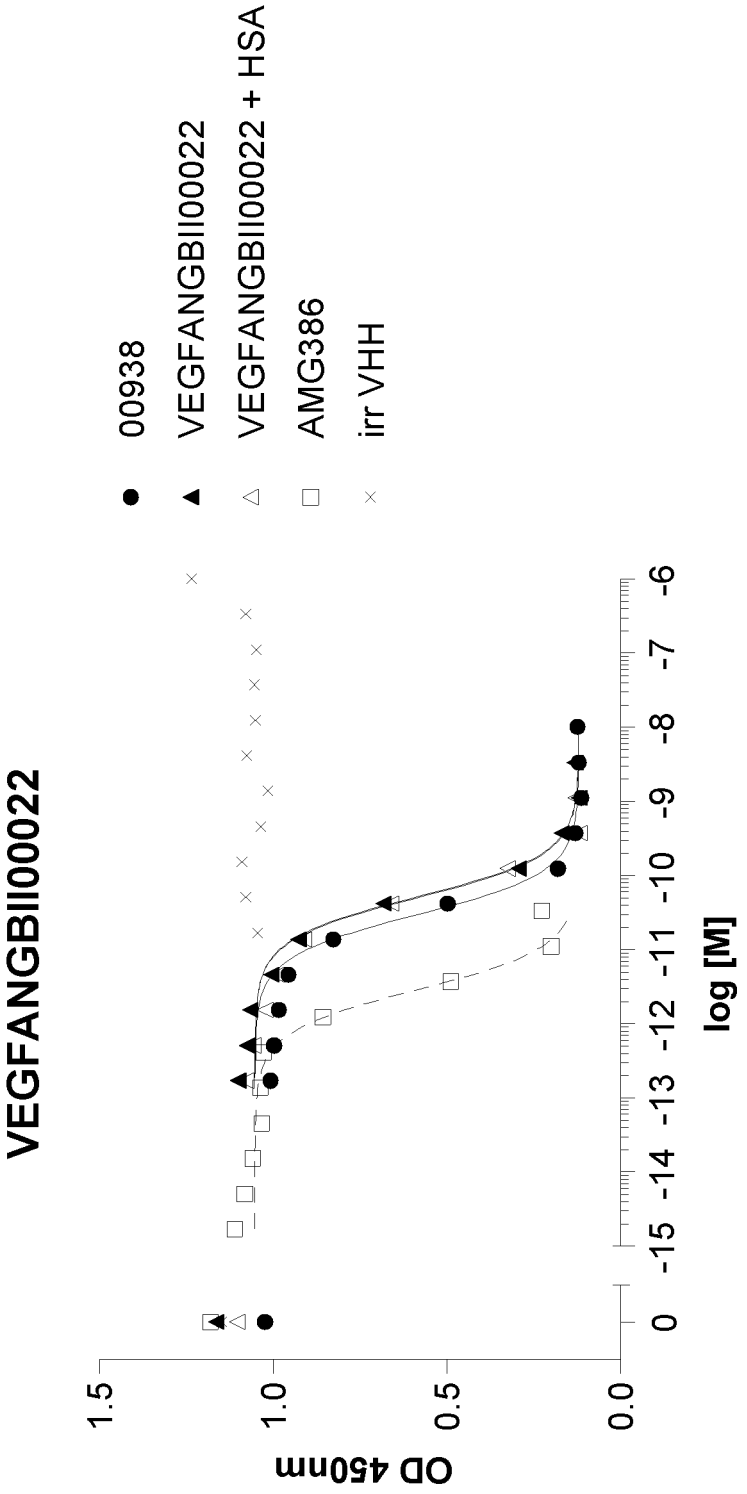

VEGFANGBII00022
00938
VEGFANGBII00022
VEGFANGBII00022 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 35-1B

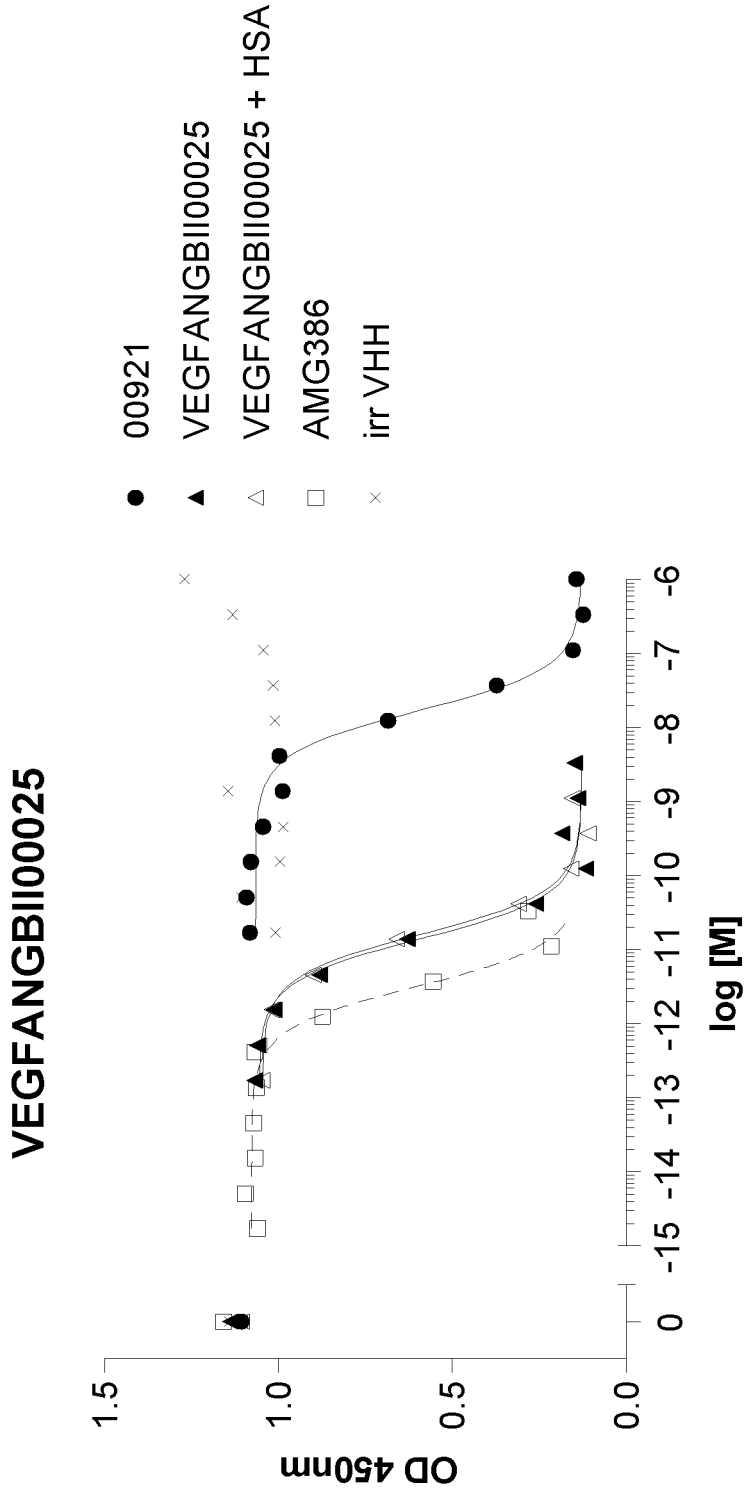

VEGFANGBII00025
00921
VEGFANGBII00025
VEGFANGBII00025 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 35-1C

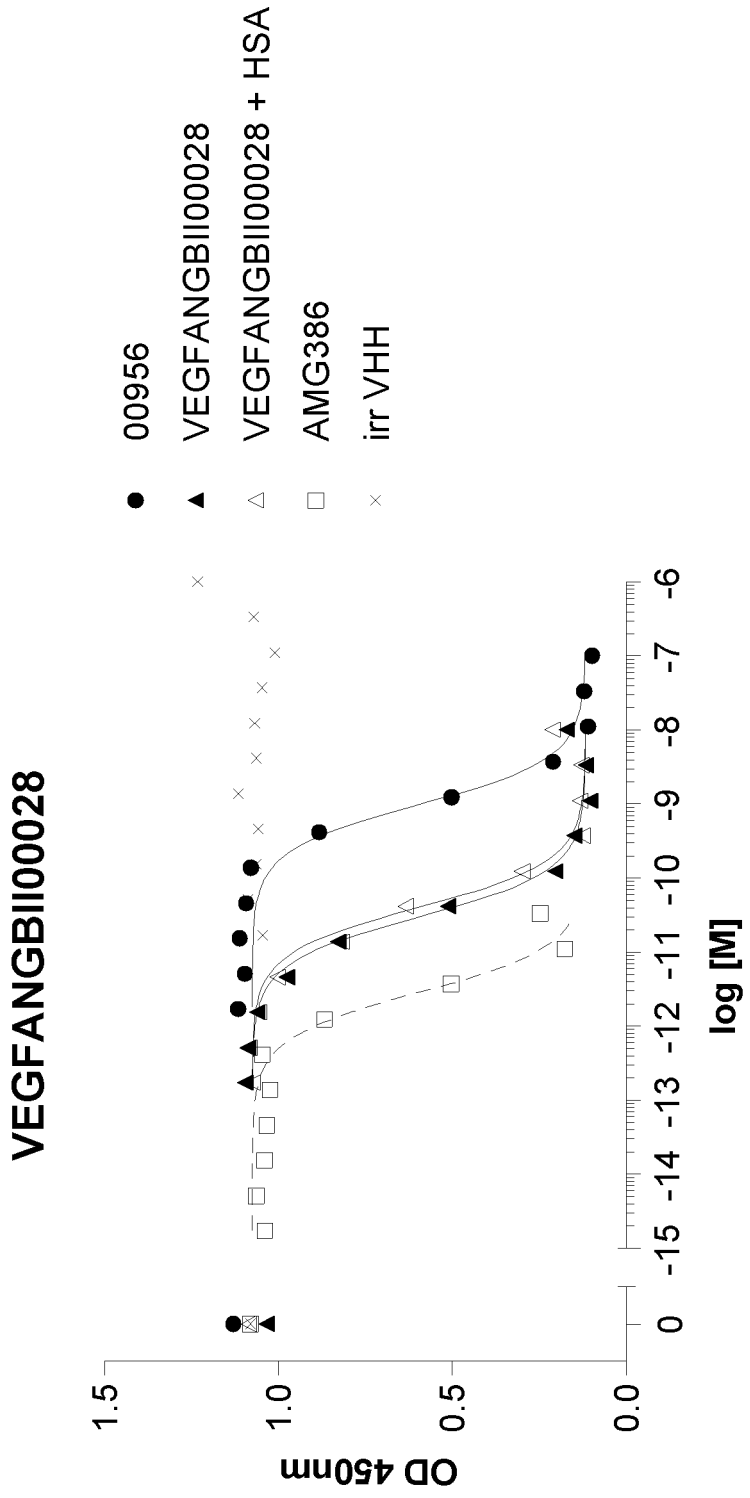

VEGFANGBII00028
00956
VEGFANGBII00028
VEGFANGBII00028 + HSA
AMG386
irr VHH
OD 450nm
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 35-2A

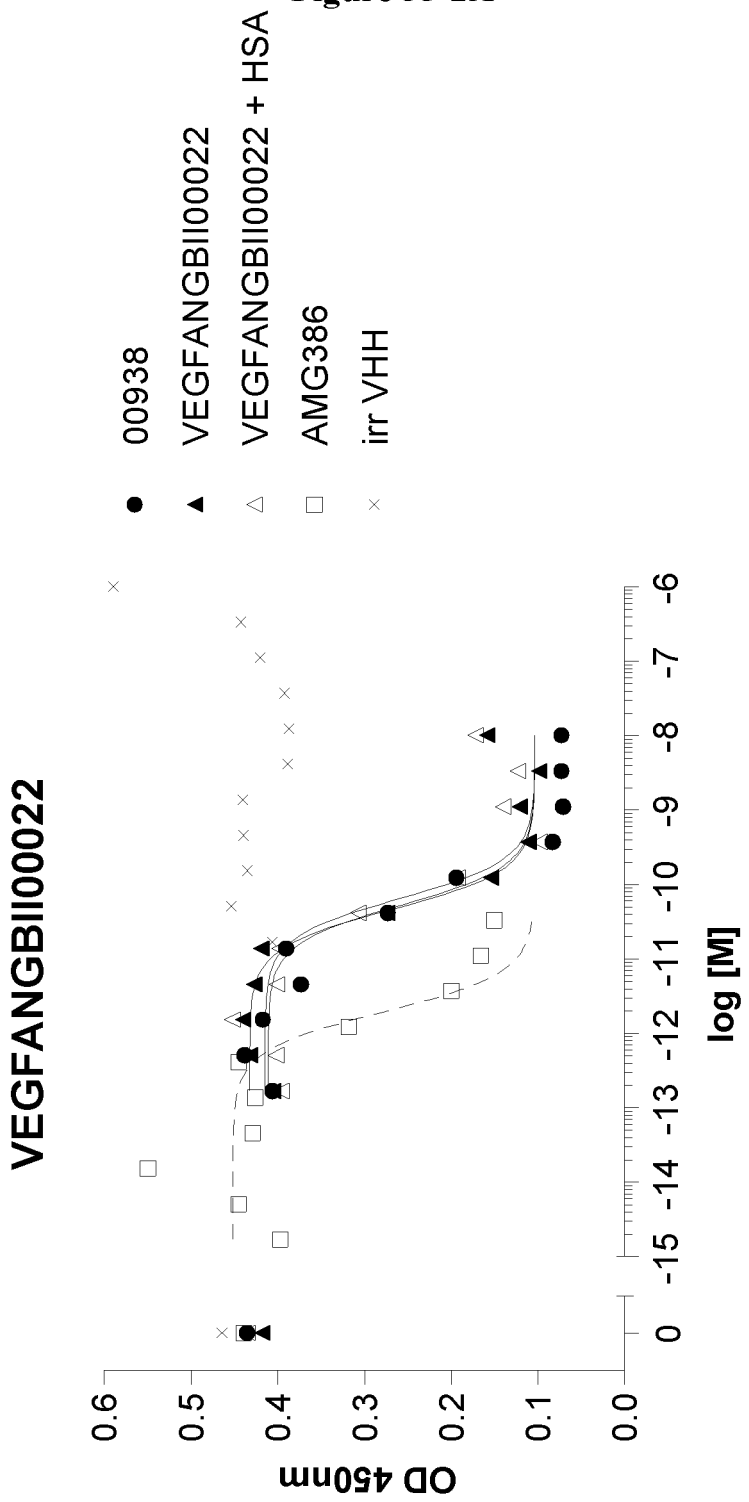

VEGFANGBII00022
00938
VEGFANGBII00022
VEGFANGBII00022 + HSA
AMG386
irr VHH
OD 450nm
0.0
0.1
0.2
0.3
0.4
0.5
0.6
log [M]
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6

Figure 35-2B

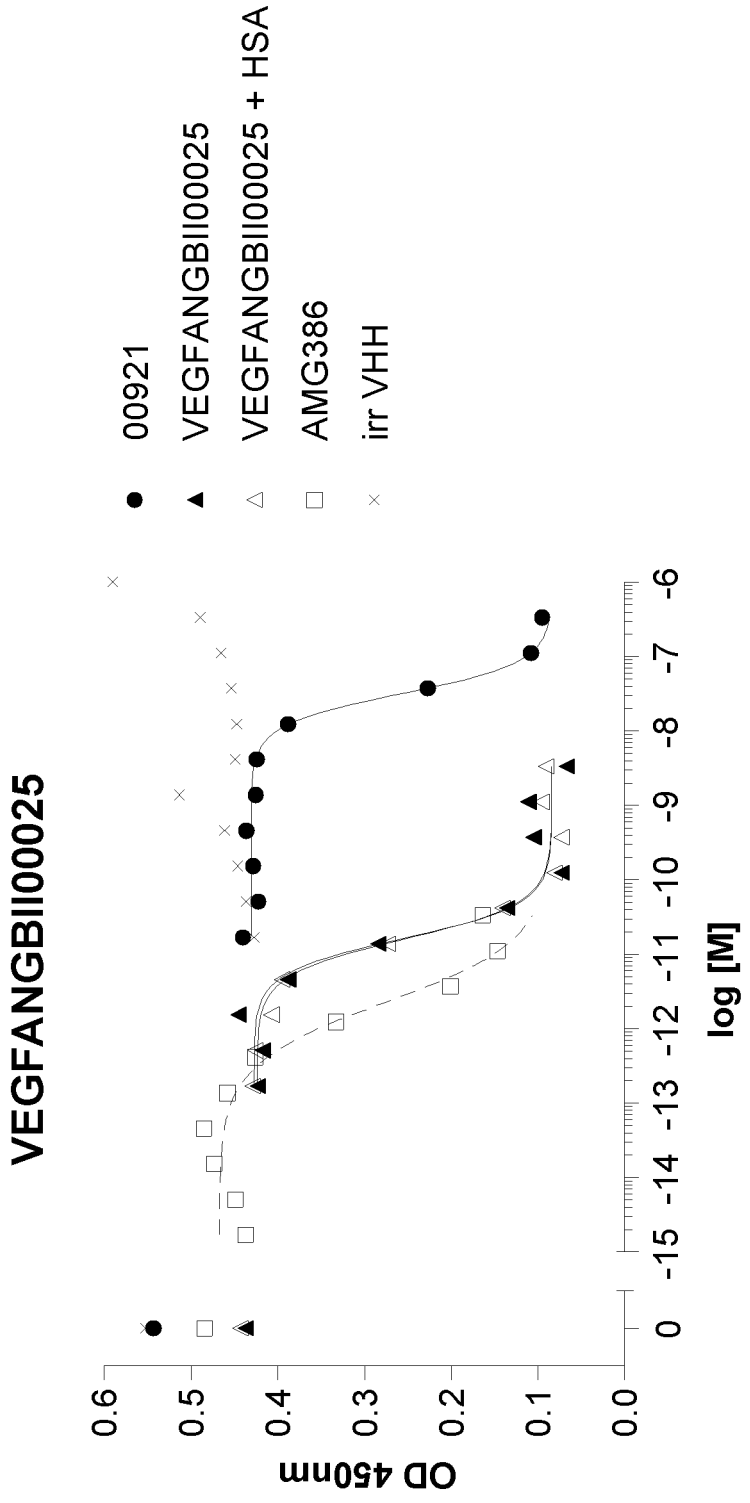

VEGFANGBII00025
00921
VEGFANGBII00025
VEGFANGBII00025 + HSA
AMG386
irr VHH
OD 450nm
0.0
0.1
0.2
0.3
0.4
0.5
0.6
log [M]
0
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15

Figure 35-2C

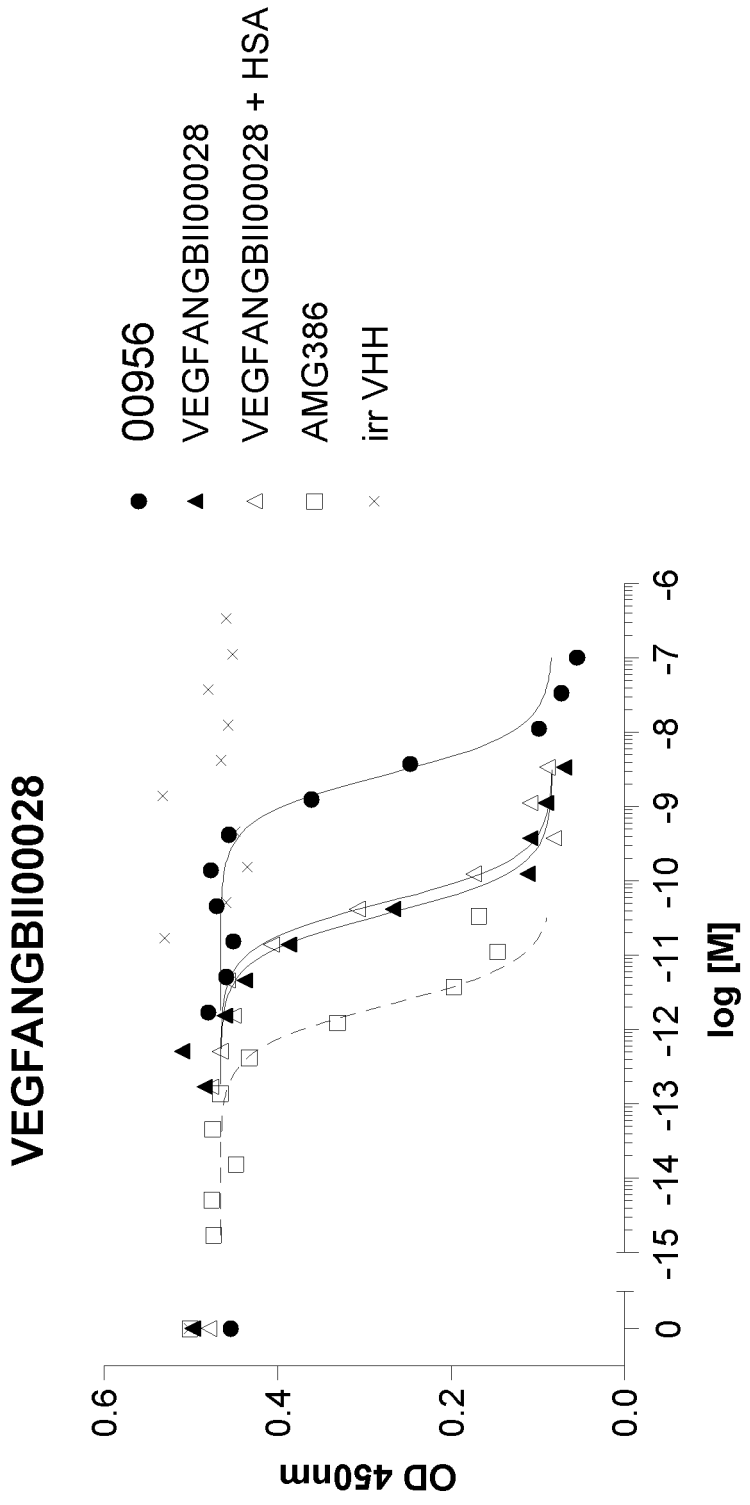

VEGFANGBII00028
00956
VEGFANGBII00028
VEGFANGBII00028 + HSA
AMG386
irr VHH
OD 450nm
0.0
0.2
0.4
0.6
log [M]
0
-6
-7
-8
-9
-10
-11
-12
-13
-14
-15

Figure 35-3A

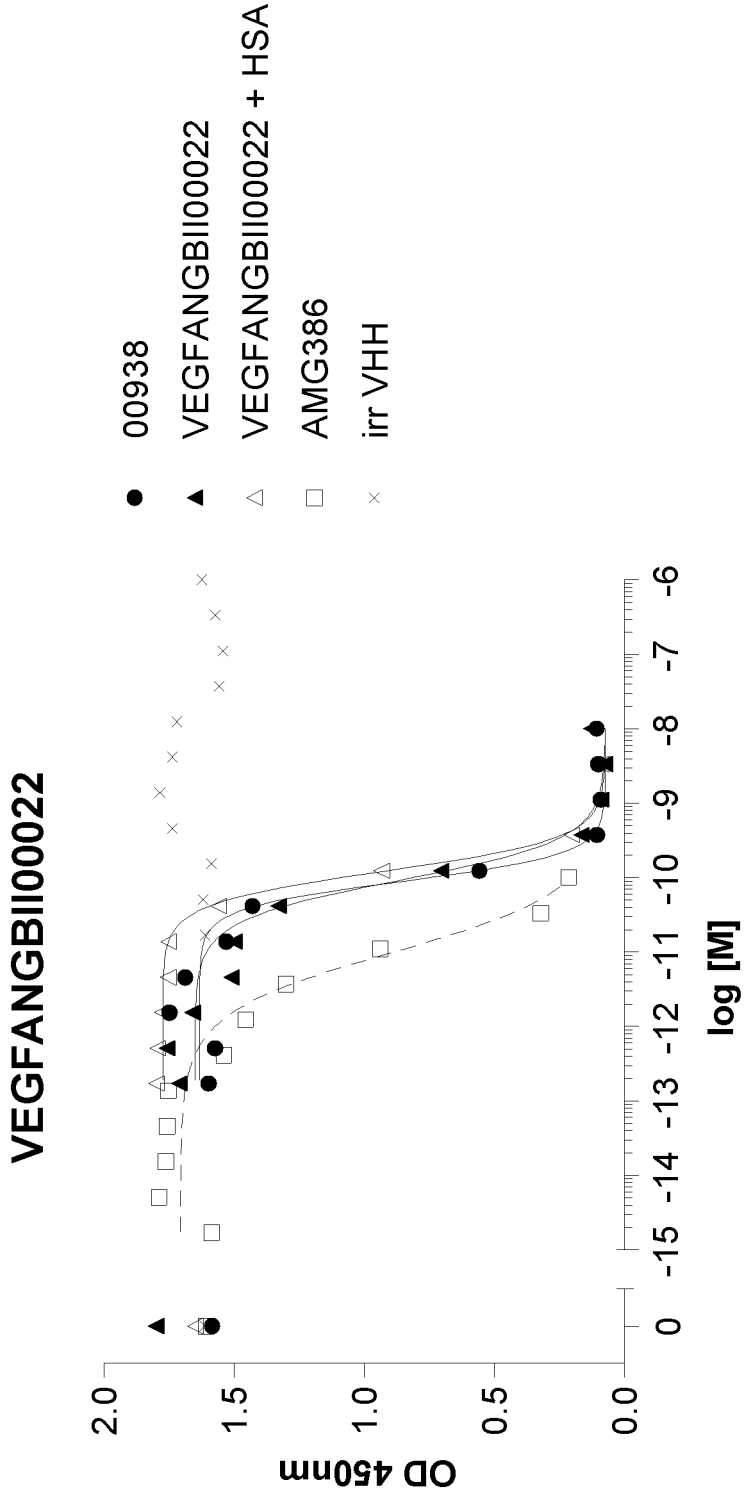

VEGFANGBII00022
00938
VEGFANGBII00022
VEGFANGBII00022 + HSA
AMG386
irr VHH
OD 450nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 35-3B

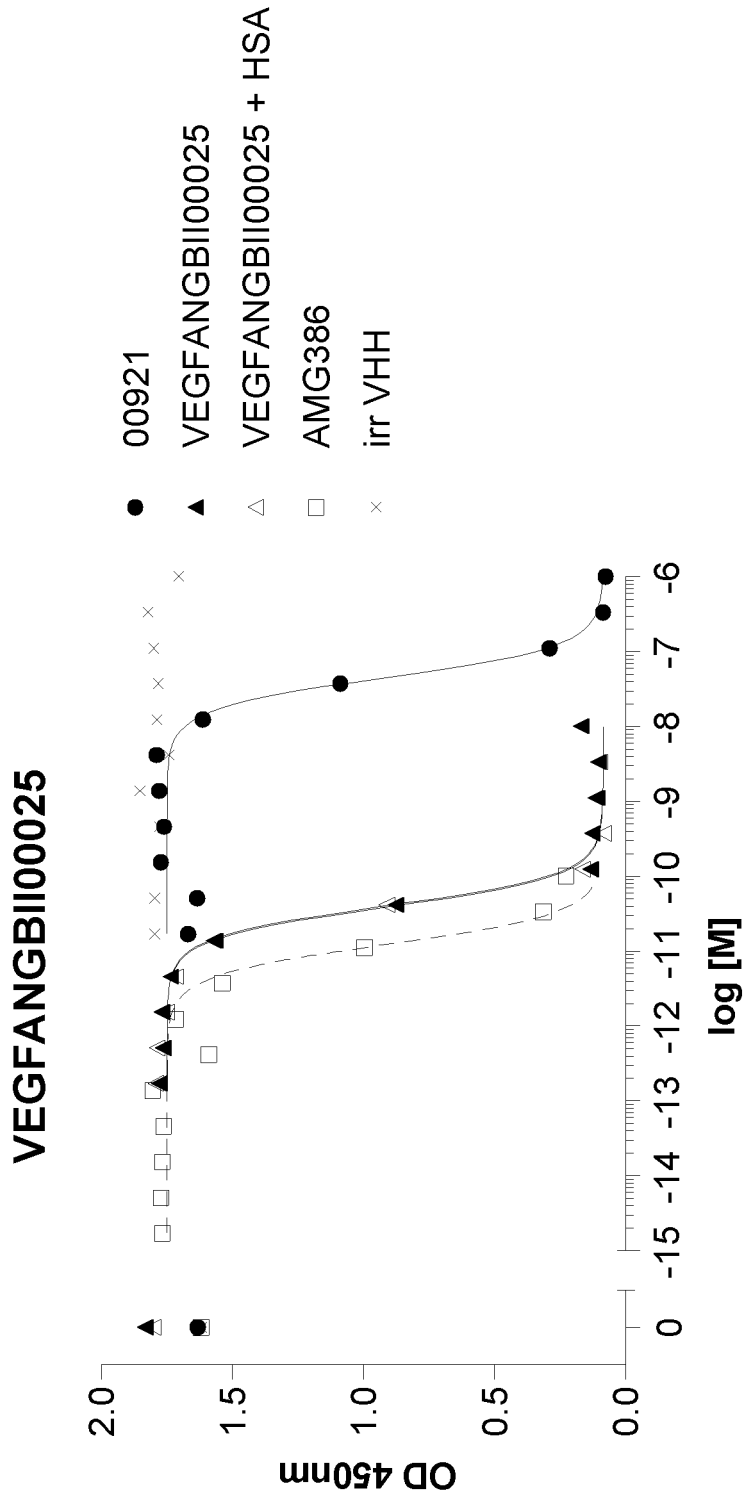

VEGFANGBII00025
00921
VEGFANGBII00025
VEGFANGBII00025 + HSA
AMG386
irr VHH
OD 450nm
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 35-3C

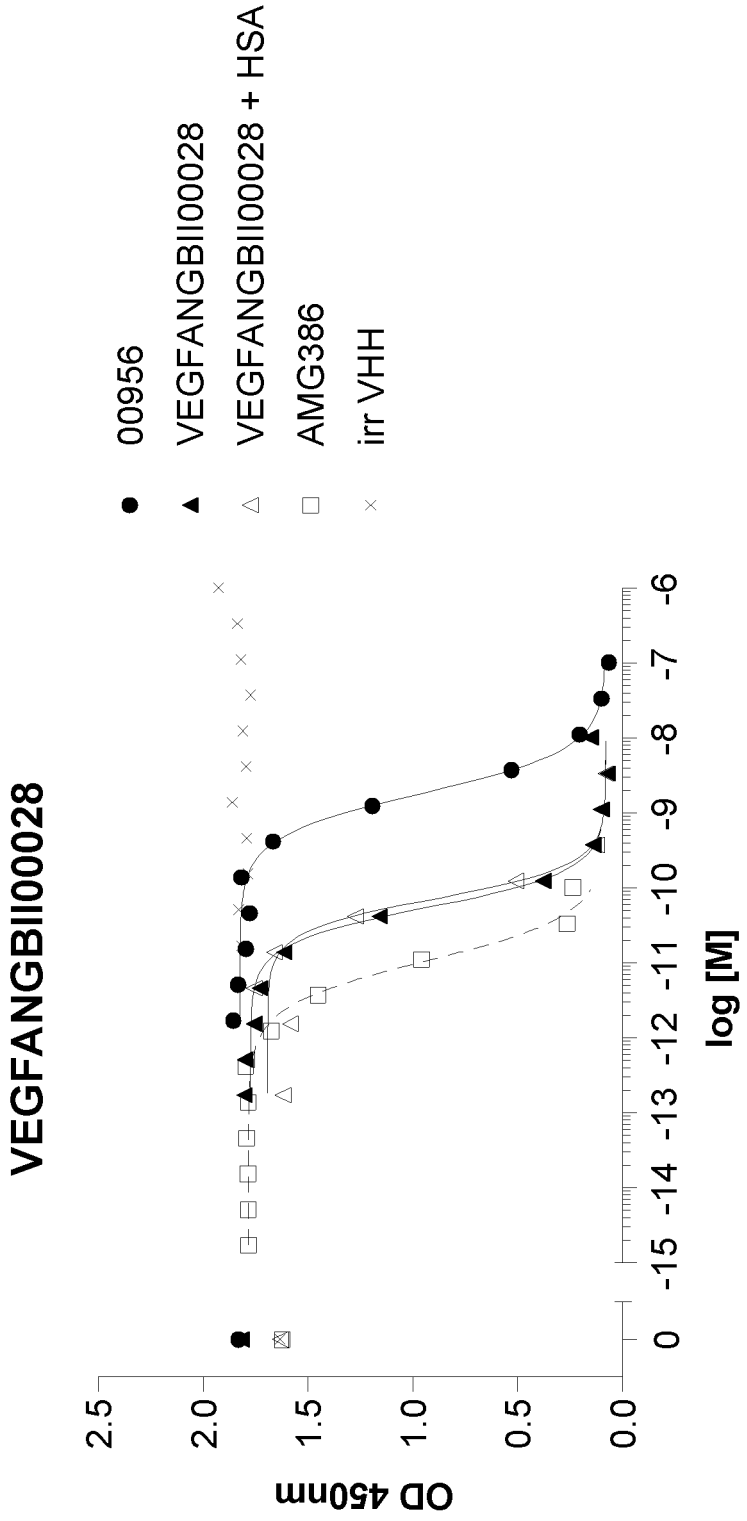

VEGFANGBII00028
00956
VEGFANGBII00028
VEGFANGBII00028 + HSA
AMG386
irr VHH
OD 450nm
2.5
2.0
1.5
1.0
0.5
0.0
0
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
log [M]

Figure 36A

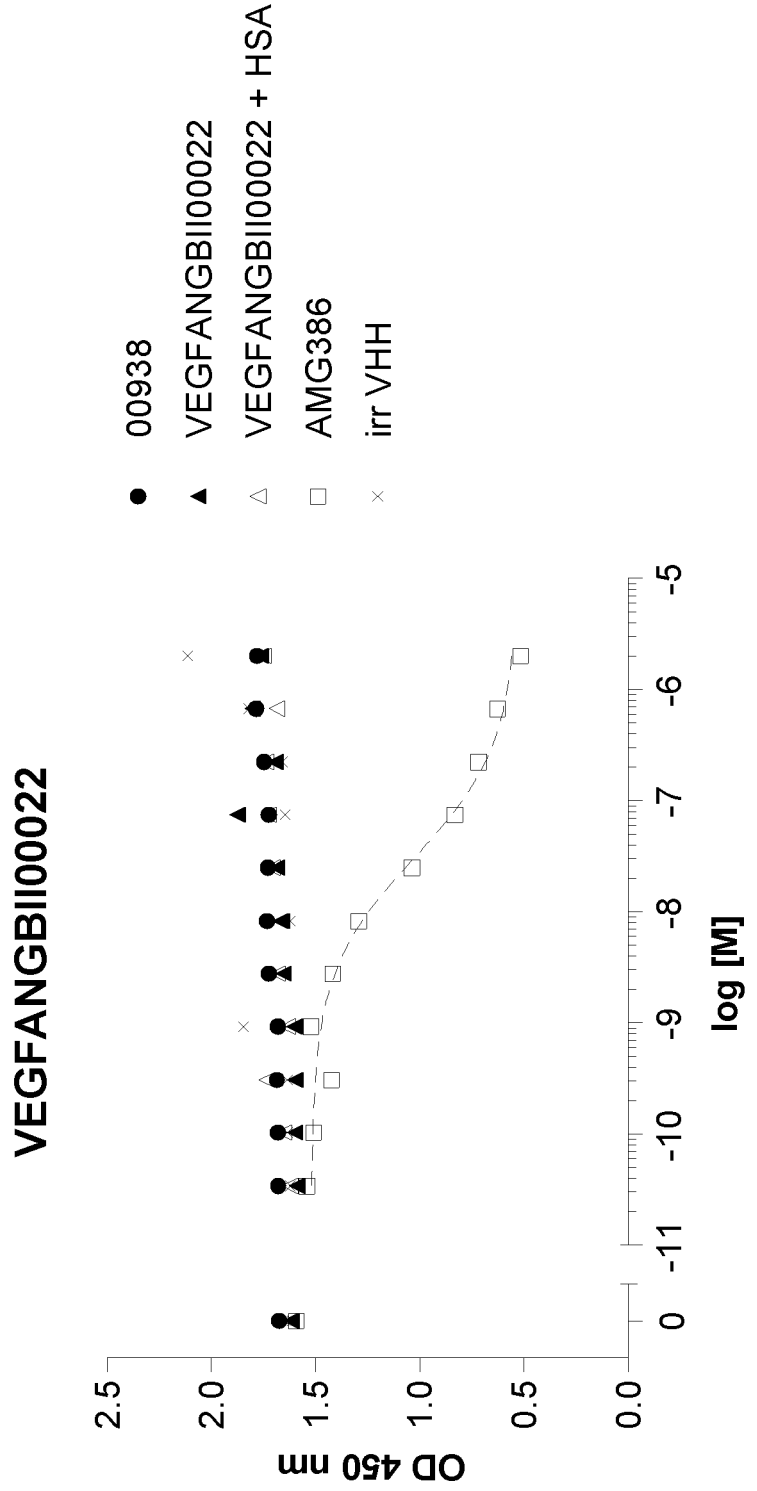

VEGFANGBII00022
00938
VEGFANGBII00022
VEGFANGBII00022 + HSA
AMG386
irr VHH
OD 450 nm
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 36B

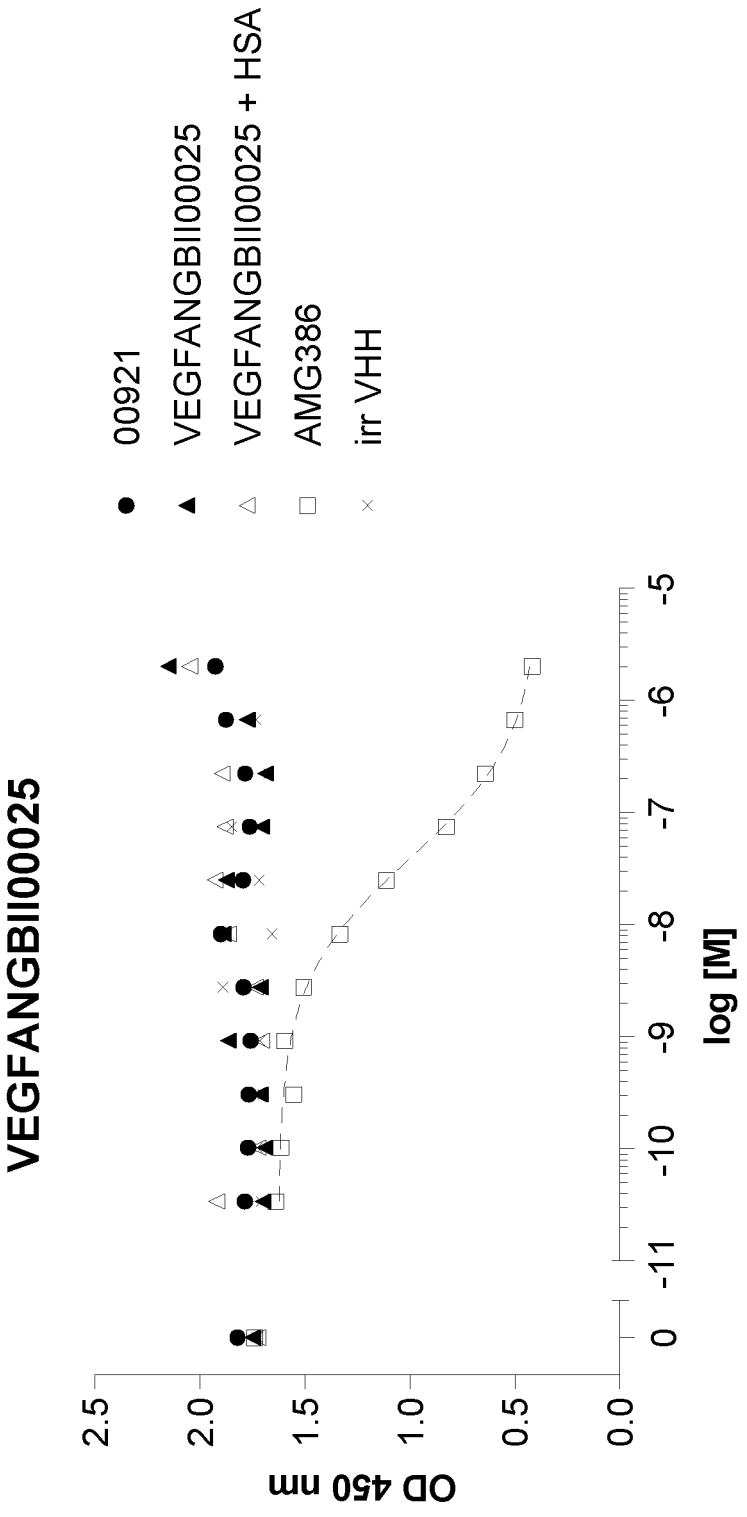

VEGFANGBII00025
00921
VEGFANGBII00025
VEGFANGBII00025 + HSA
AMG386
irr VHH
OD 450 nm
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 36C

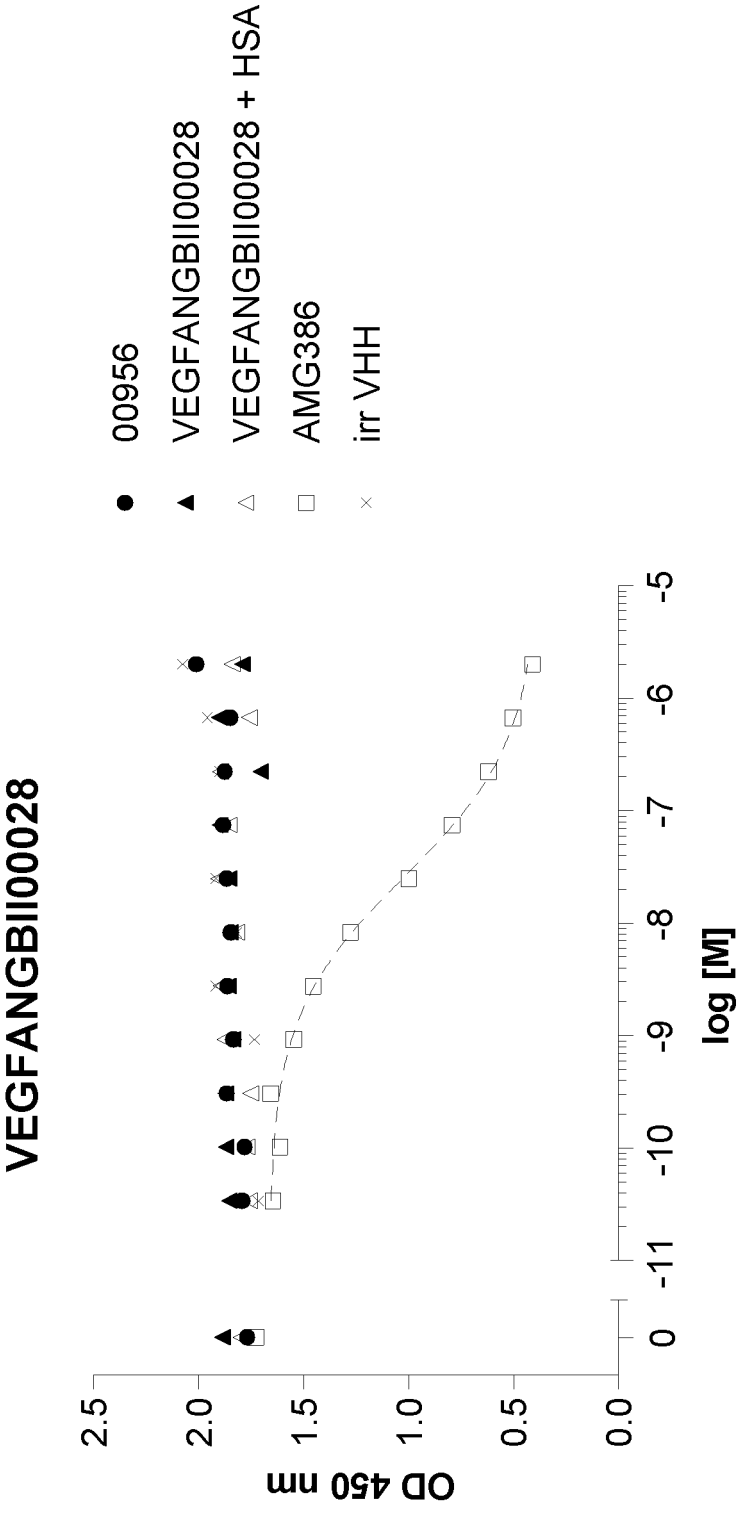

VEGFANGBII00028
00956
VEGFANGBII00028
VEGFANGBII00028 + HSA
AMG386
irr VHH
OD 450 nm
2.5
2.0
1.5
1.0
0.5
0.0
0
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 37A

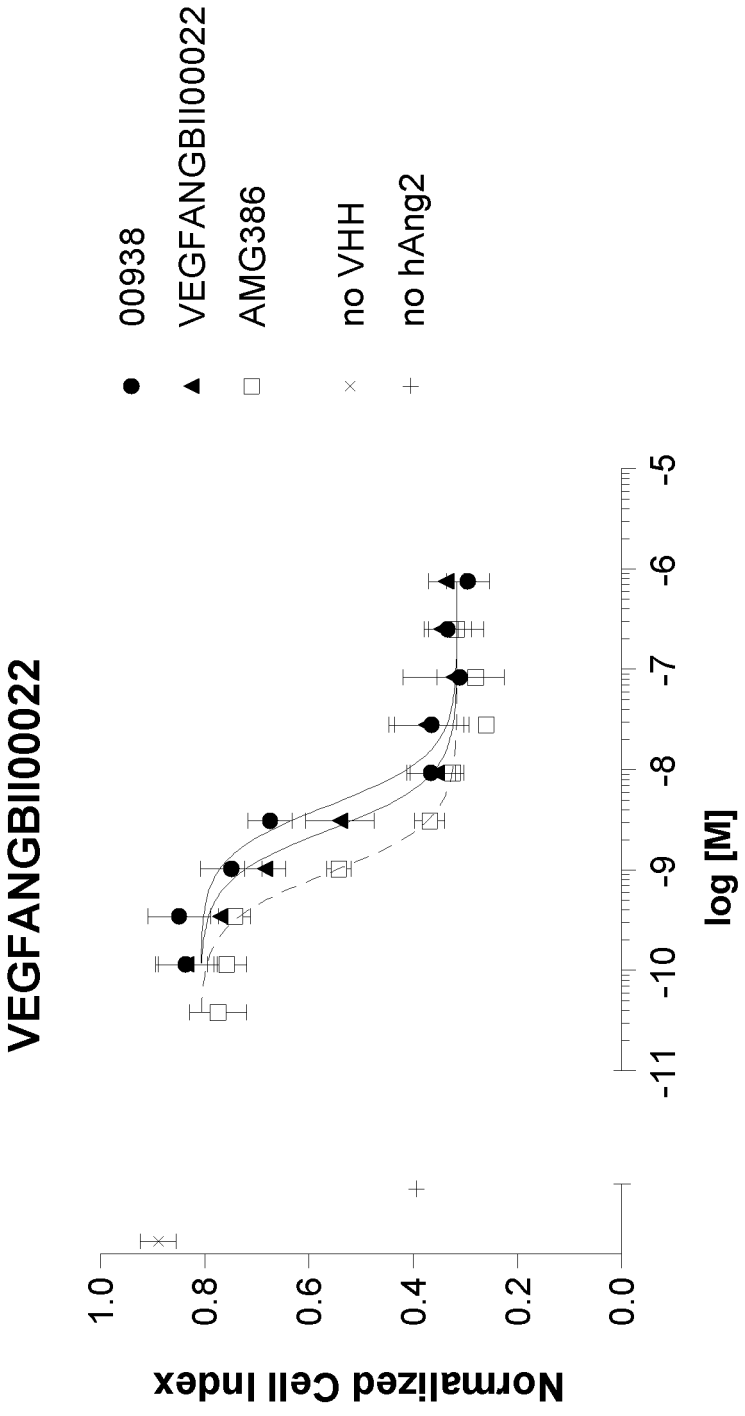

VEGFANGBII00022
00938
VEGFANGBII00022
AMG386
no VHH
no hAng2
Normalized Cell Index
1.0
0.8
0.6
0.4
0.2
0.0
-5
-6
-7
-8
-9
-10
-11
log [M]

Figure 37B

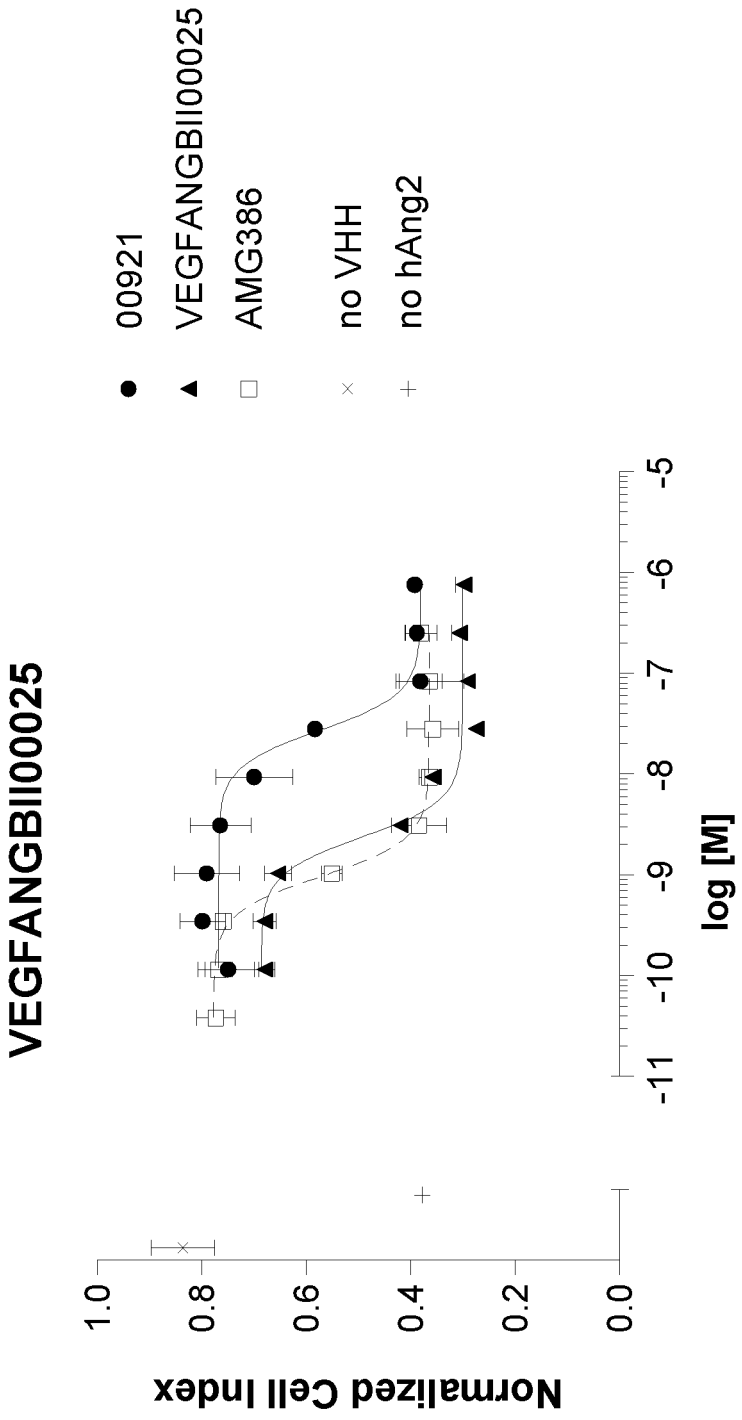
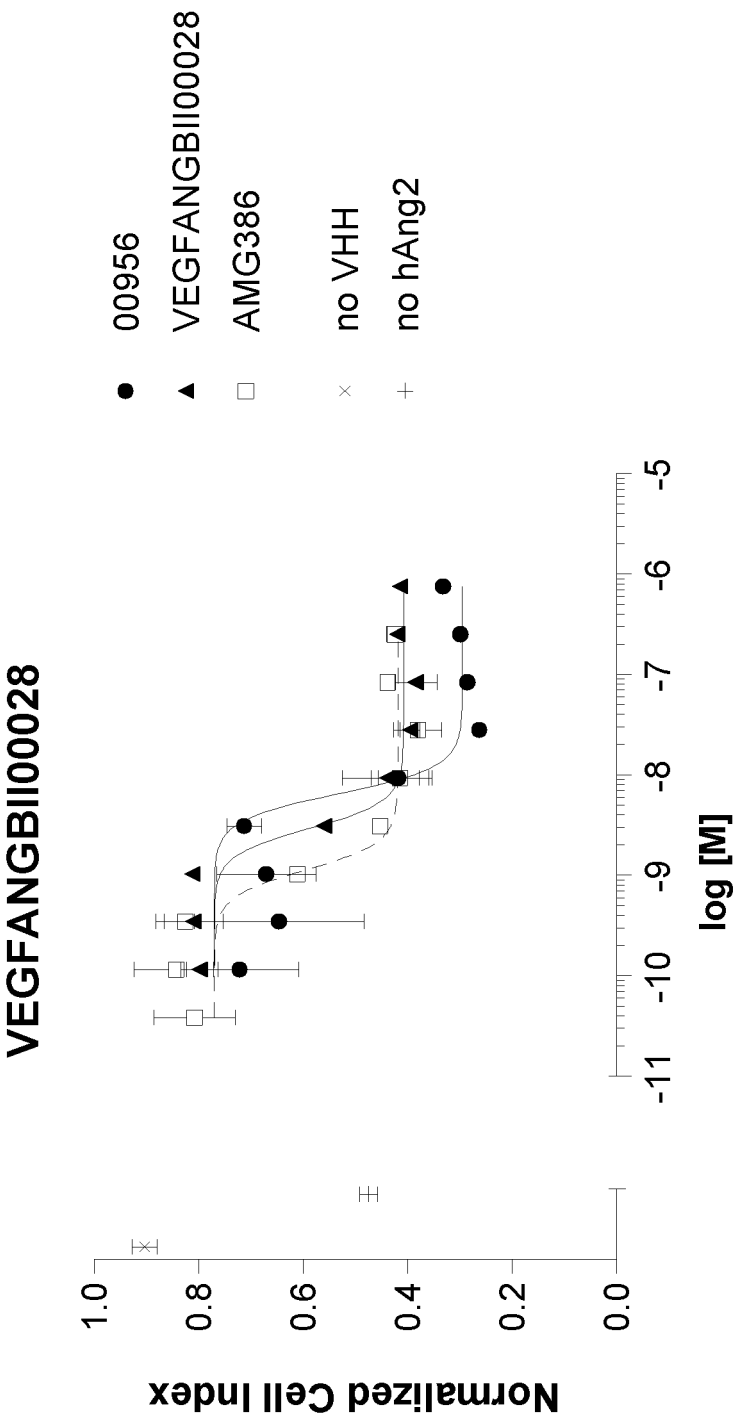

VEGFANGBII00025
00921
VEGFANGBII00025
AMG386
no VHH
no hAng2
Normalized Cell Index
1.0
0.8
0.6
0.4
0.2
0.0
-11
-10
-9
-8
-7
-6
-5
log [M]

Figure 37C


VEGFANGBII00028
00956
VEGFANGBII00028
AMG386
no VHH
no hAng2
Normalized Cell Index
1.0
0.8
0.6
0.4
0.2
0.0
-5
-6
-7
-8
-9
-10
-11
log [M]