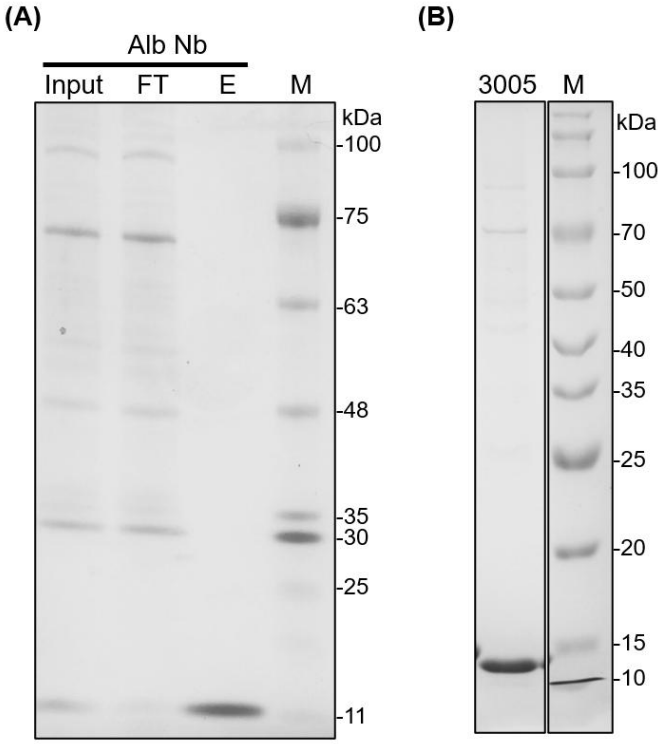

(A)
Alb Nb
Input
FT
E
M
kDa
100
75
63
48
35
30
25
11
(B)
3005
M
kDa
100
70
50
40
35
25
20
15
10

FIG. 1

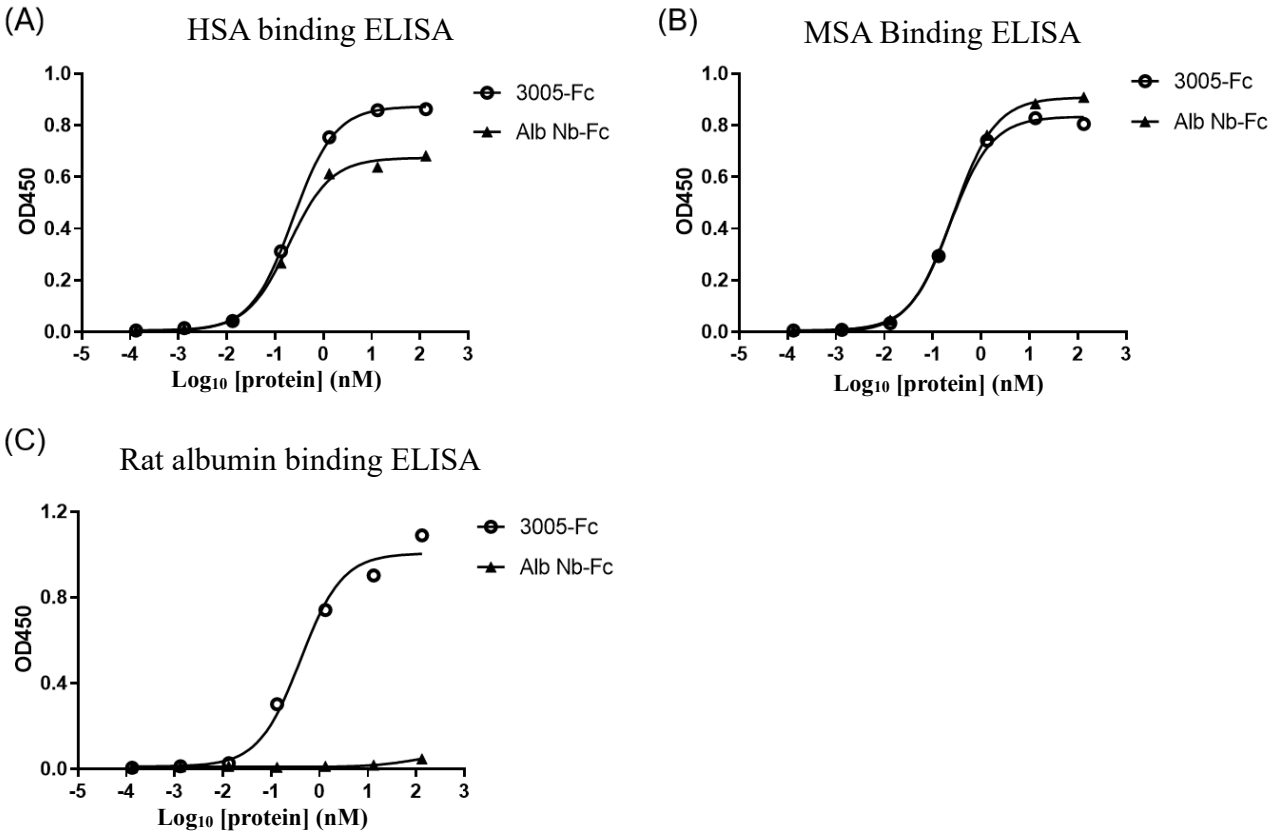

(A)
HSA binding ELISA
OD450
Log10 [protein] (nM)
3005-Fc
Alb Nb-Fc
(B)
MSA Binding ELISA
OD450
Log10 [protein] (nM)
3005-Fc
Alb Nb-Fc
(C)
Rat albumin binding ELISA
OD450
Log10 [protein] (nM)
3005-Fc
Alb Nb-Fc

FIG. 2

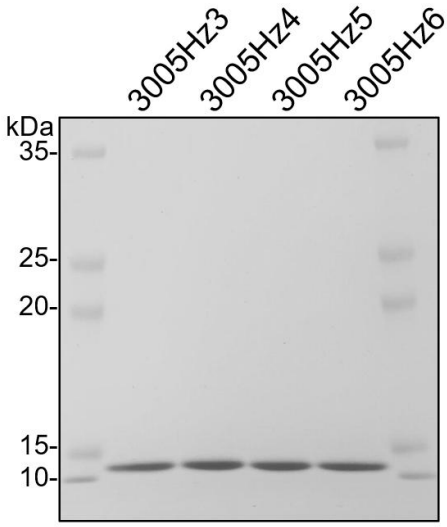


FIG. 3

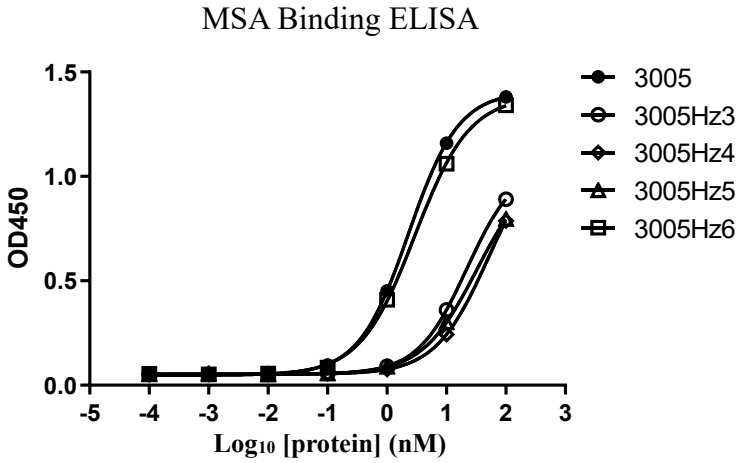


FIG. 4

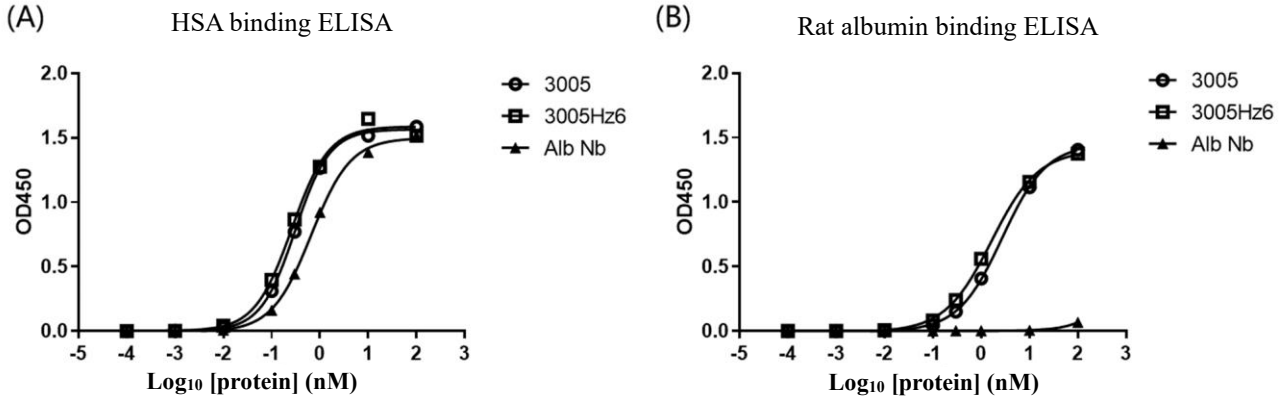


FIG. 5

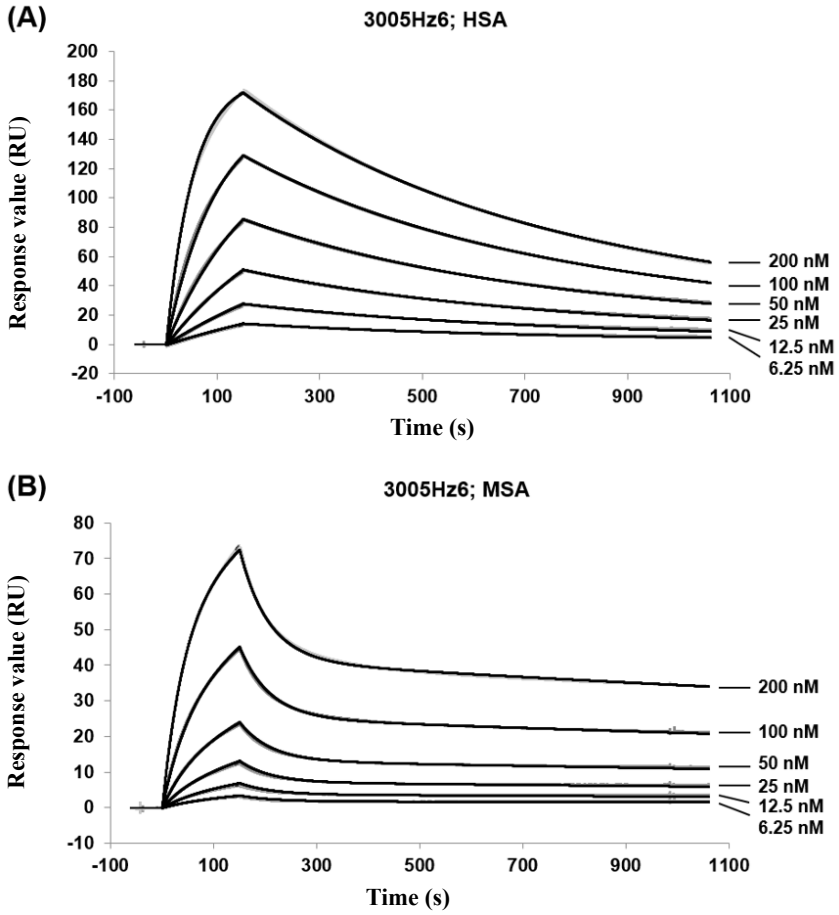

(A)
3005Hz6; HSA
Response value (RU)
Time (s)
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
(B)
3005Hz6; MSA
Response value (RU)
Time (s)
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM

FIG. 6

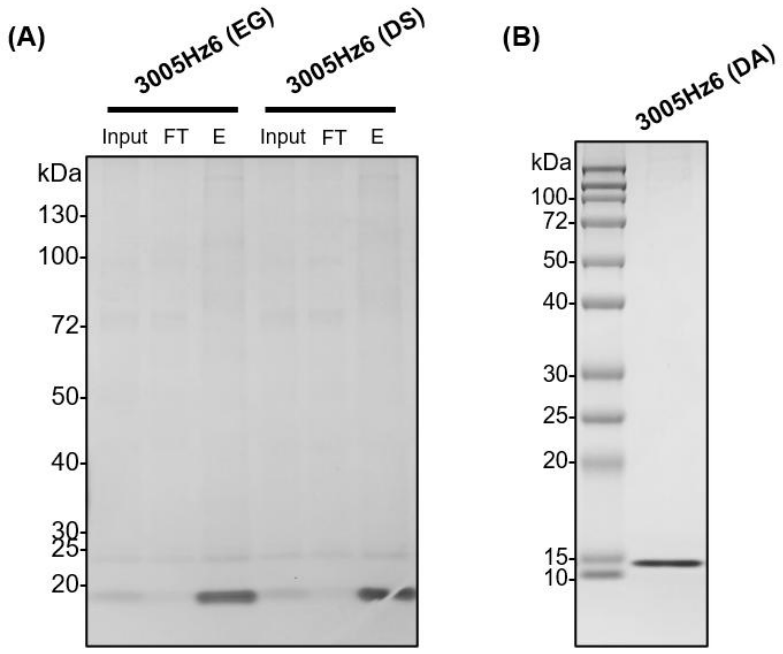

(A)
3005Hz6 (EG)
3005Hz6 (DS)
Input FT E Input FT E
kDa
130
100
72
50
40
30
25
20
(B)
3005Hz6 (DA)
kDa
100
72
50
40
30
25
20
15
10

FIG. 7

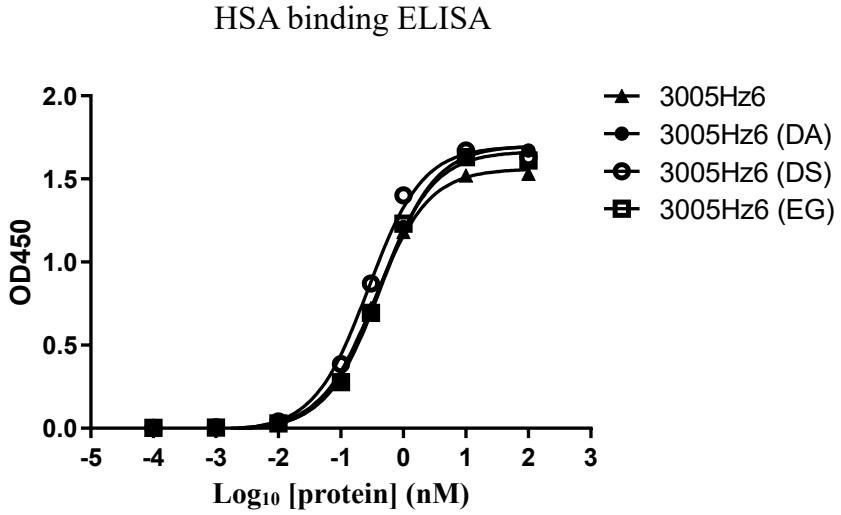

HSA binding ELISA
3005Hz6
3005Hz6 (DA)
3005Hz6 (DS)
3005Hz6 (EG)
OD450
2.0
1.5
1.0
0.5
0.0
-5
-4
-3
-2
-1
0
1
2
3
Log10 [protein] (nM)

FIG. 8

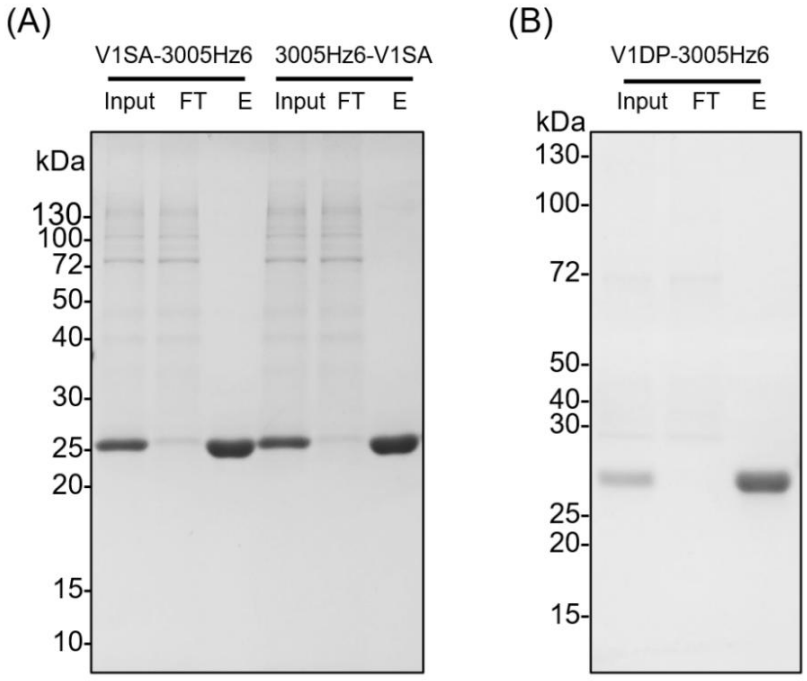

(A)
V1SA-3005Hz6
3005Hz6-V1SA
Input
FT
E
Input
FT
E
kDa
130
100
72
50
40
30
25
20
15
10
(B)
V1DP-3005Hz6
Input
FT
E
kDa
130
100
72
50
40
30
25
20
15

FIG. 9

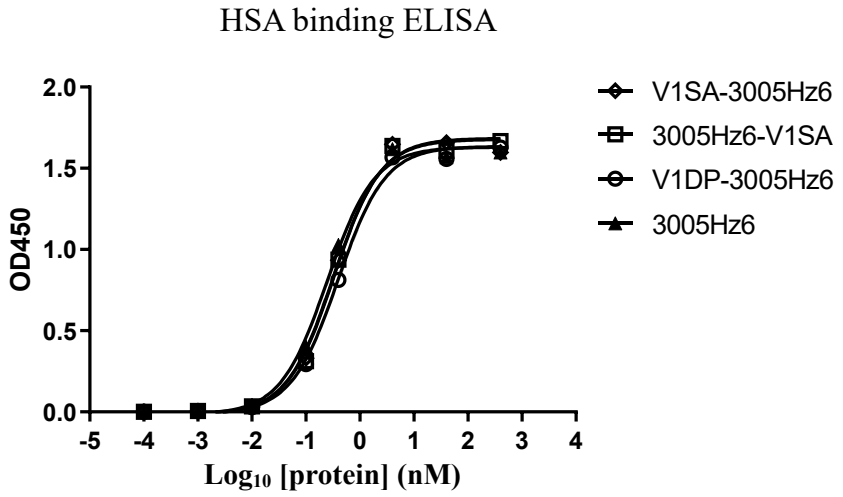


FIG. 10

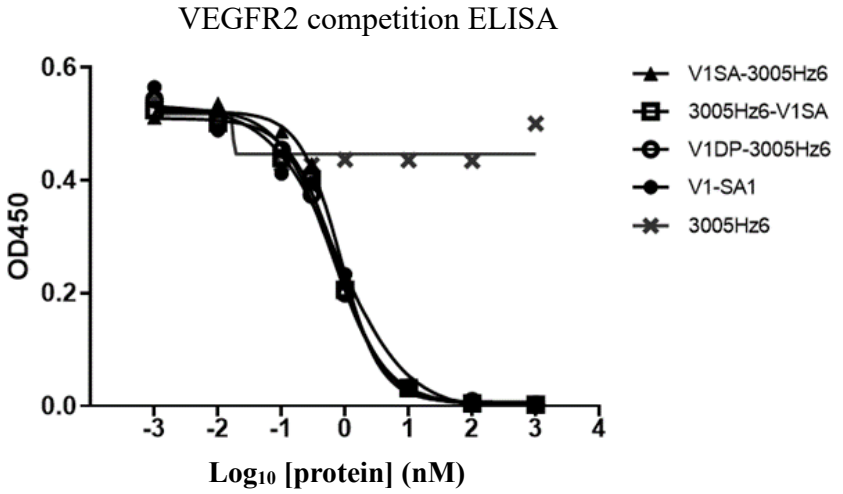


FIG. 11

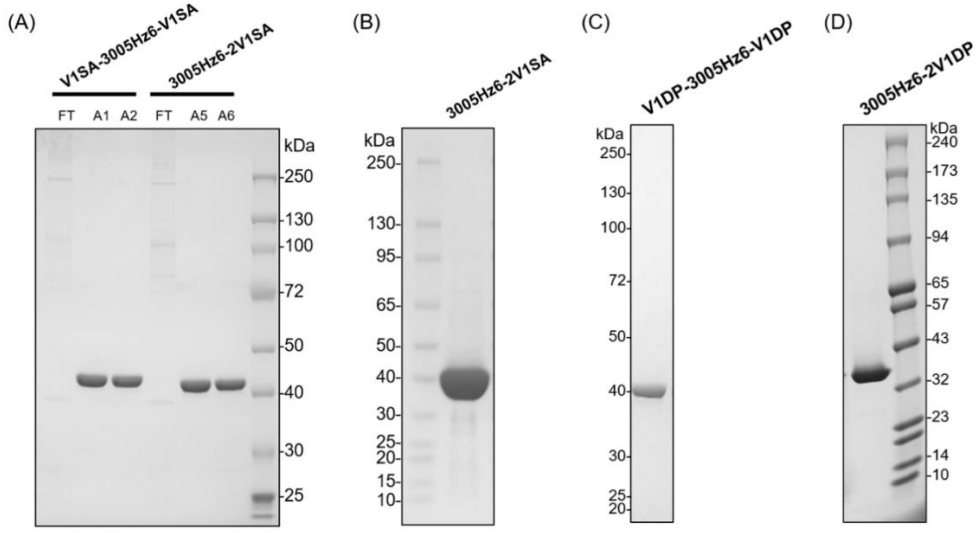


FIG. 12

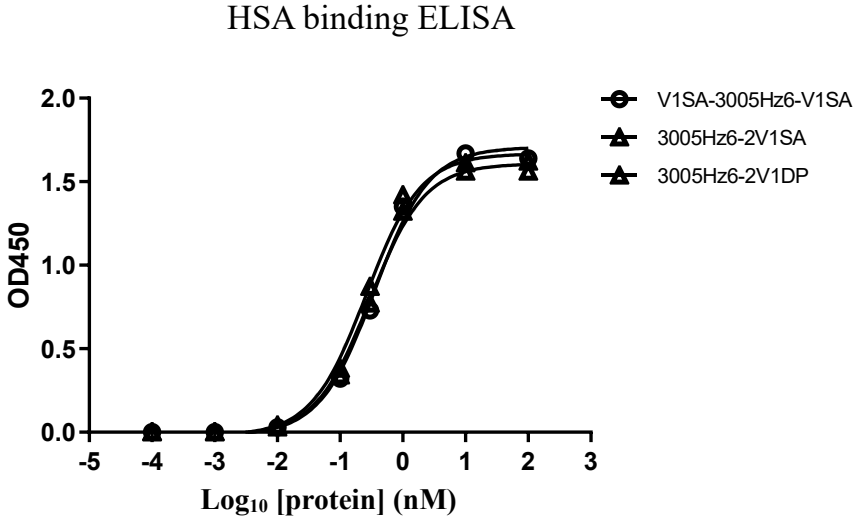

HSA binding ELISA
V1SA-3005Hz6-V1SA
3005Hz6-2V1SA
3005Hz6-2V1DP
OD450
2.0
1.5
1.0
0.5
0.0
-5
-4
-3
-2
-1
0
1
2
3
Log10 [protein] (nM)

FIG. 13

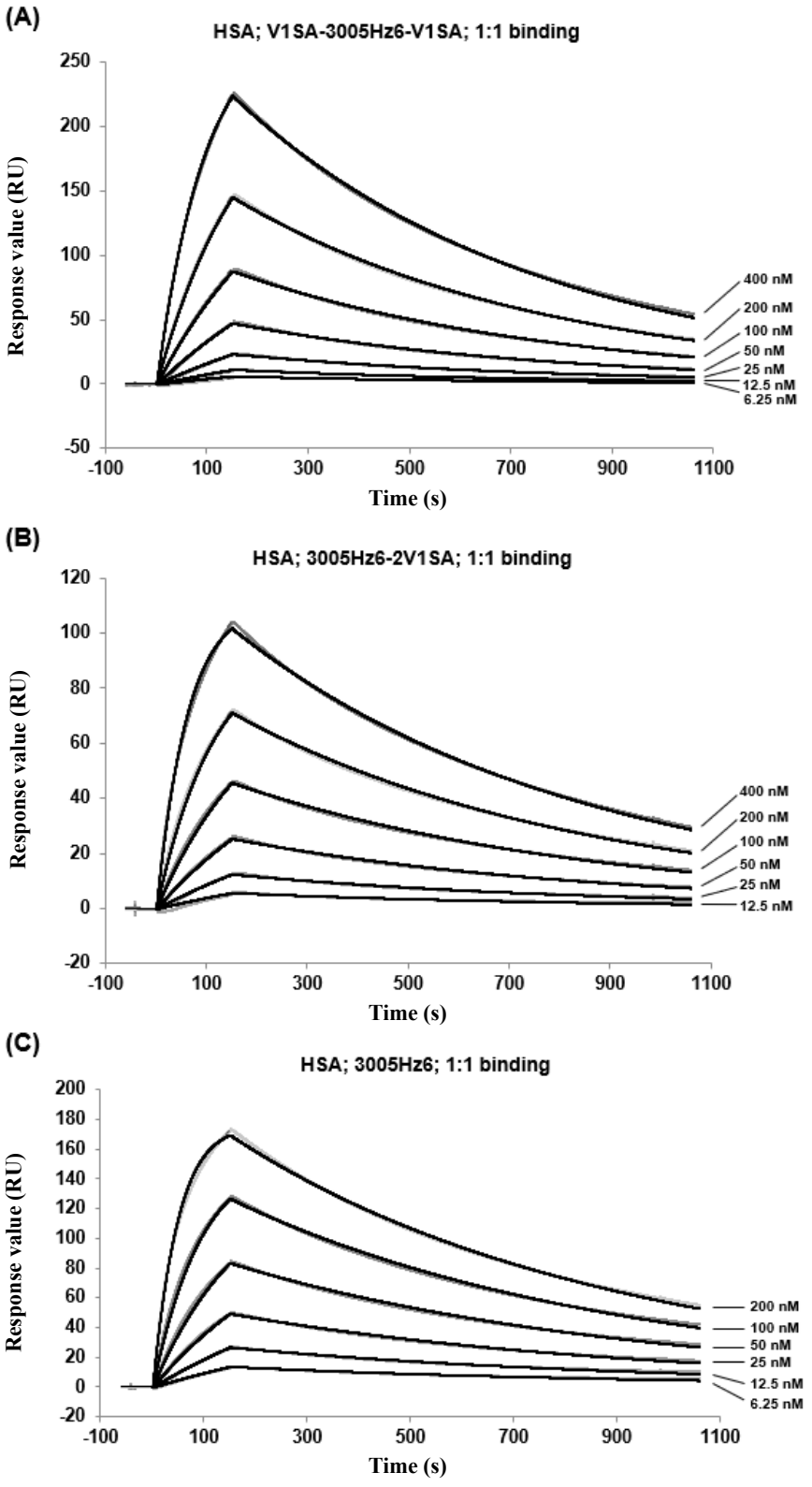

(A)
HSA; V1SA-3005Hz6-V1SA; 1:1 binding
Response value (RU)
Time (s)
400 nM
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
(B)
HSA; 3005Hz6-2V1SA; 1:1 binding
Response value (RU)
Time (s)
400 nM
200 nM
100 nM
50 nM
25 nM
12.5 nM
(C)
HSA; 3005Hz6; 1:1 binding
Response value (RU)
Time (s)
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM

FIG. 14

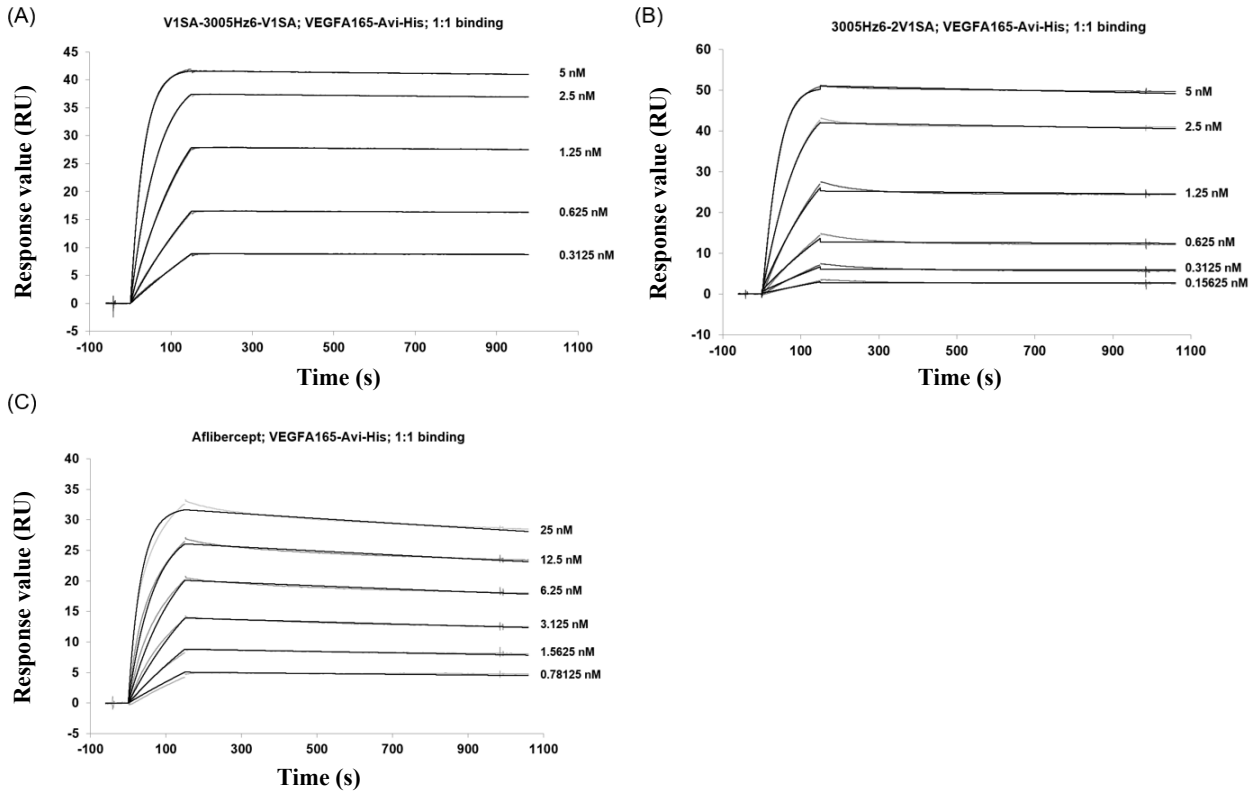

(A)
V1SA-3005Hz6-V1SA; VEGFA165-Avi-His; 1:1 binding
Response value (RU)
Time (s)
5 nM
2.5 nM
1.25 nM
0.625 nM
0.3125 nM
(B)
3005Hz6-2V1SA; VEGFA165-Avi-His; 1:1 binding
Response value (RU)
Time (s)
5 nM
2.5 nM
1.25 nM
0.625 nM
0.3125 nM
0.15625 nM
(C)
Aflibercept; VEGFA165-Avi-His; 1:1 binding
Response value (RU)
Time (s)
25 nM
12.5 nM
6.25 nM
3.125 nM
1.5625 nM
0.78125 nM

FIG. 15

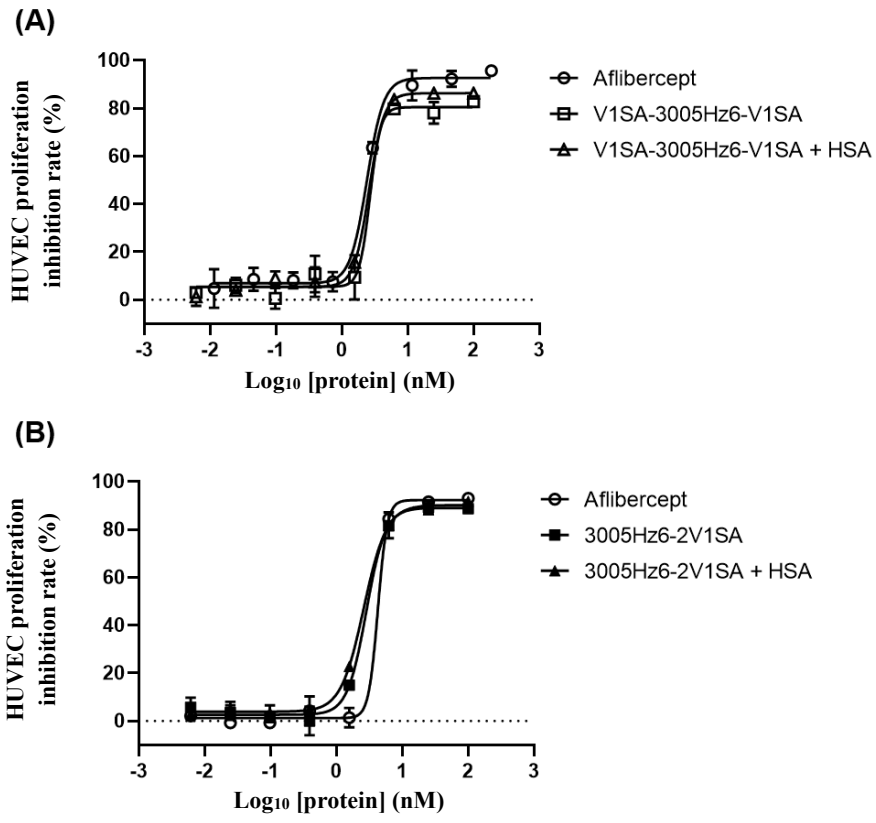

(A)
HUVEC proliferation inhibition rate (%)
Log10 [protein] (nM)
Aflibercept
V1SA-3005Hz6-V1SA
V1SA-3005Hz6-V1SA + HSA
(B)
HUVEC proliferation inhibition rate (%)
Log10 [protein] (nM)
Aflibercept
3005Hz6-2V1SA
3005Hz6-2V1SA + HSA

FIG. 16

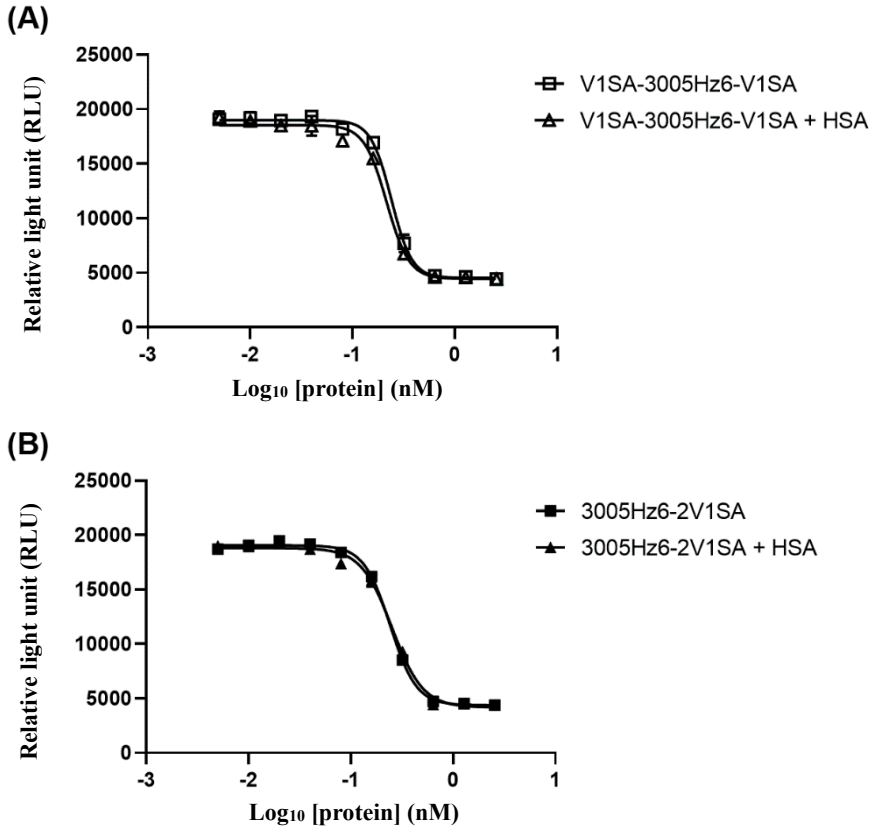

(A)
Relative light unit (RLU)
25000
20000
15000
10000
5000
0
-3
-2
-1
0
1
Log10 [protein] (nM)
V1SA-3005Hz6-V1SA
V1SA-3005Hz6-V1SA + HSA
(B)
Relative light unit (RLU)
25000
20000
15000
10000
5000
0
-3
-2
-1
0
1
Log10 [protein] (nM)
3005Hz6-2V1SA
3005Hz6-2V1SA + HSA

FIG. 17