DRAWINGS OF THE SPECIFICATION

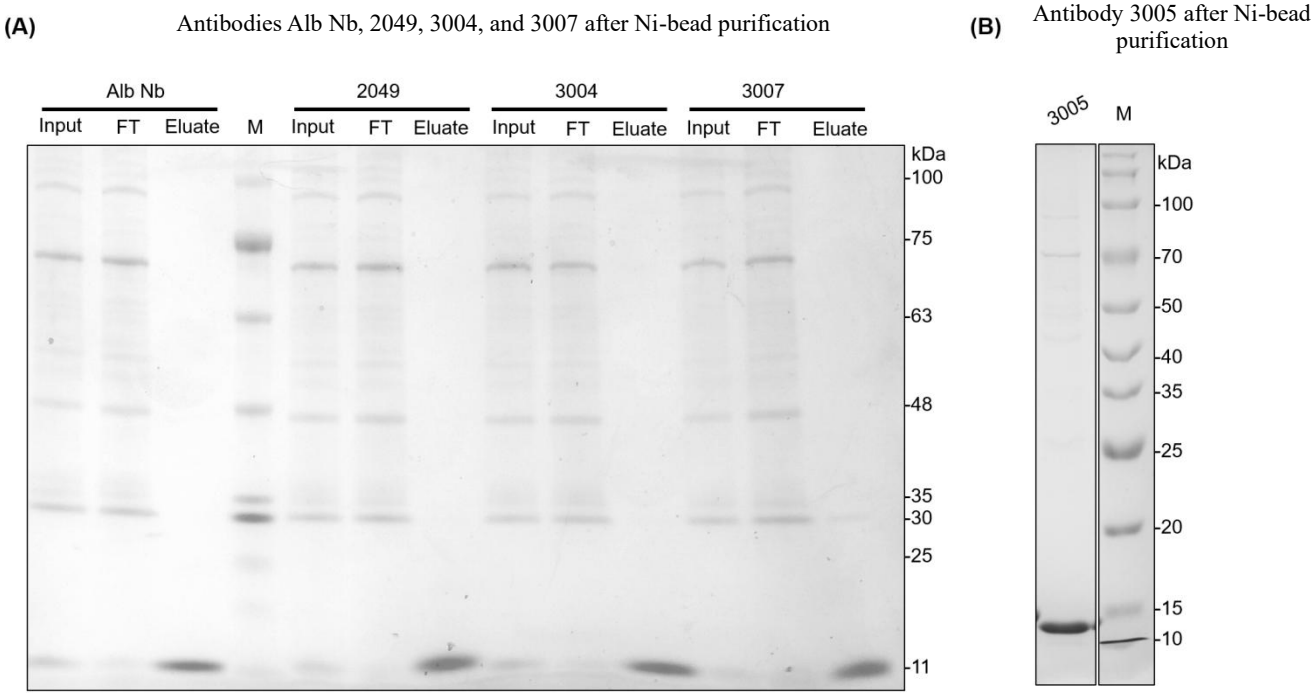


FIG. 1

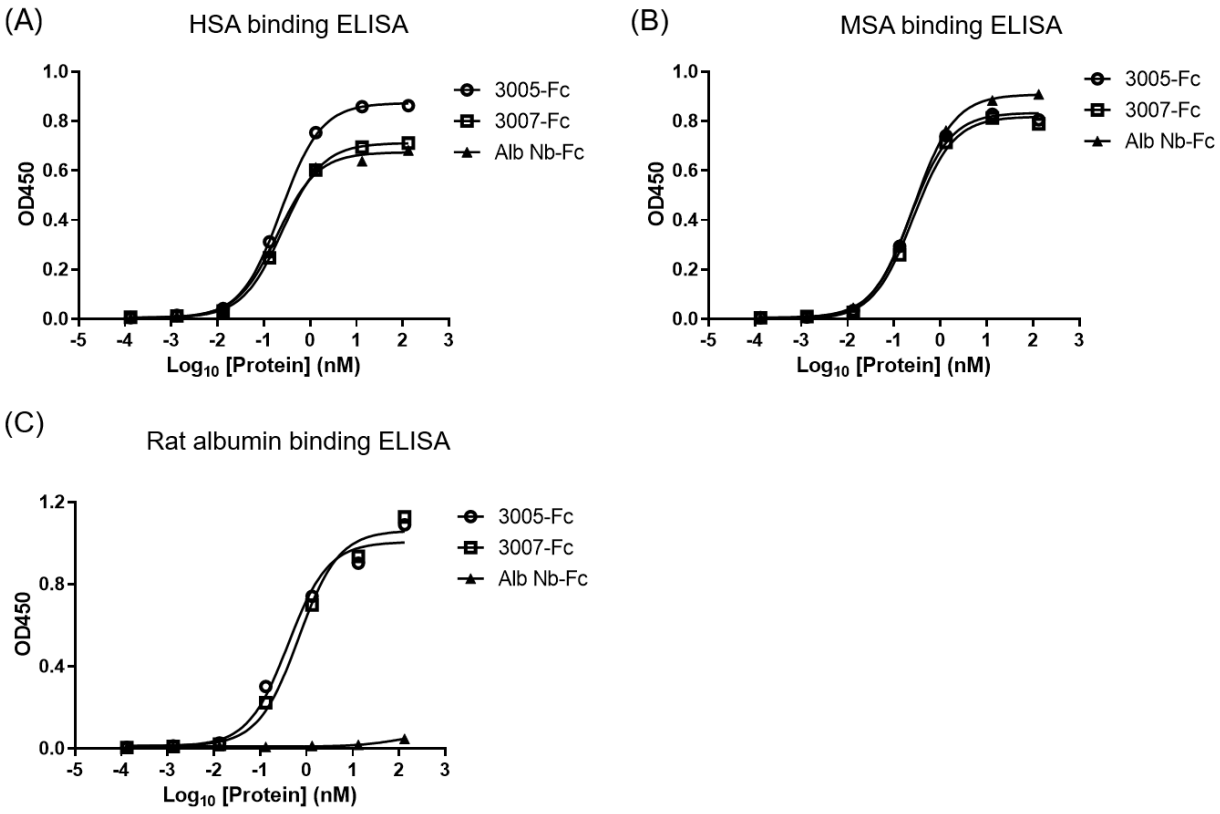


FIG. 2

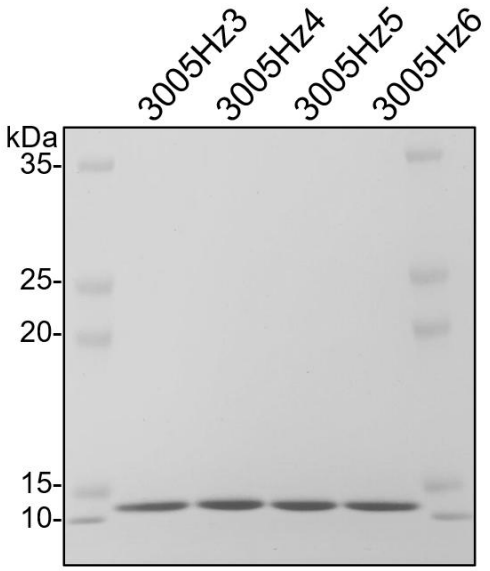


FIG. 3

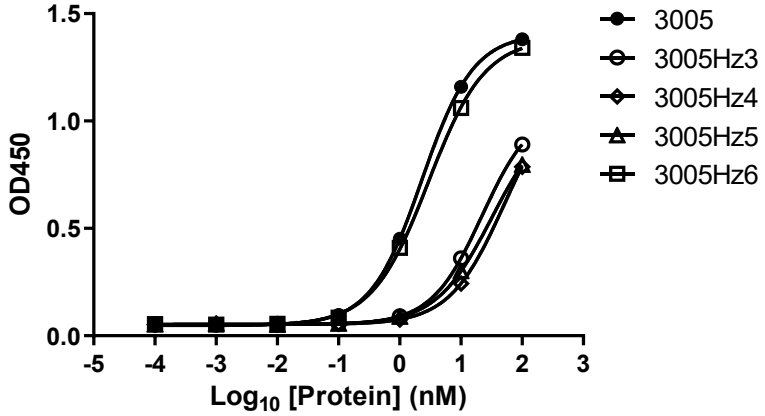


FIG. 4

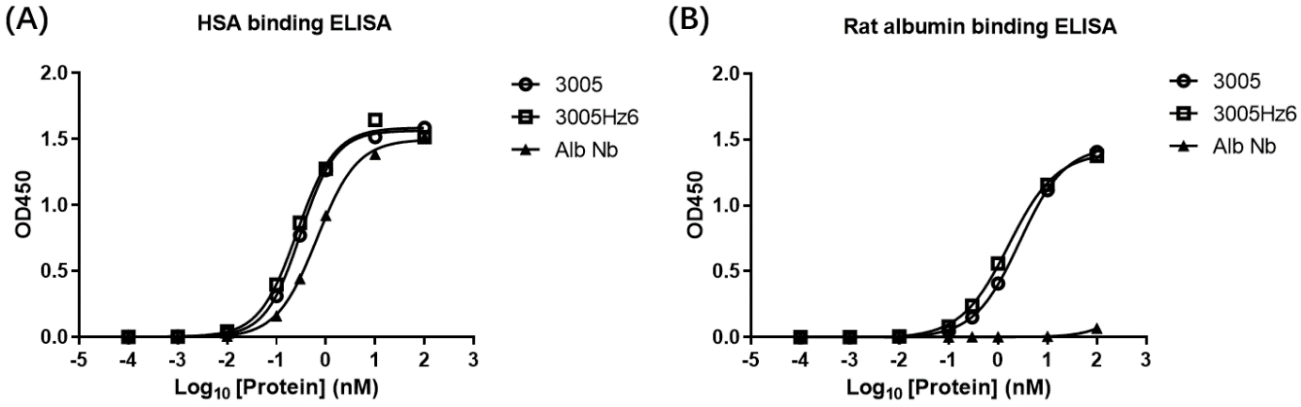


FIG. 5

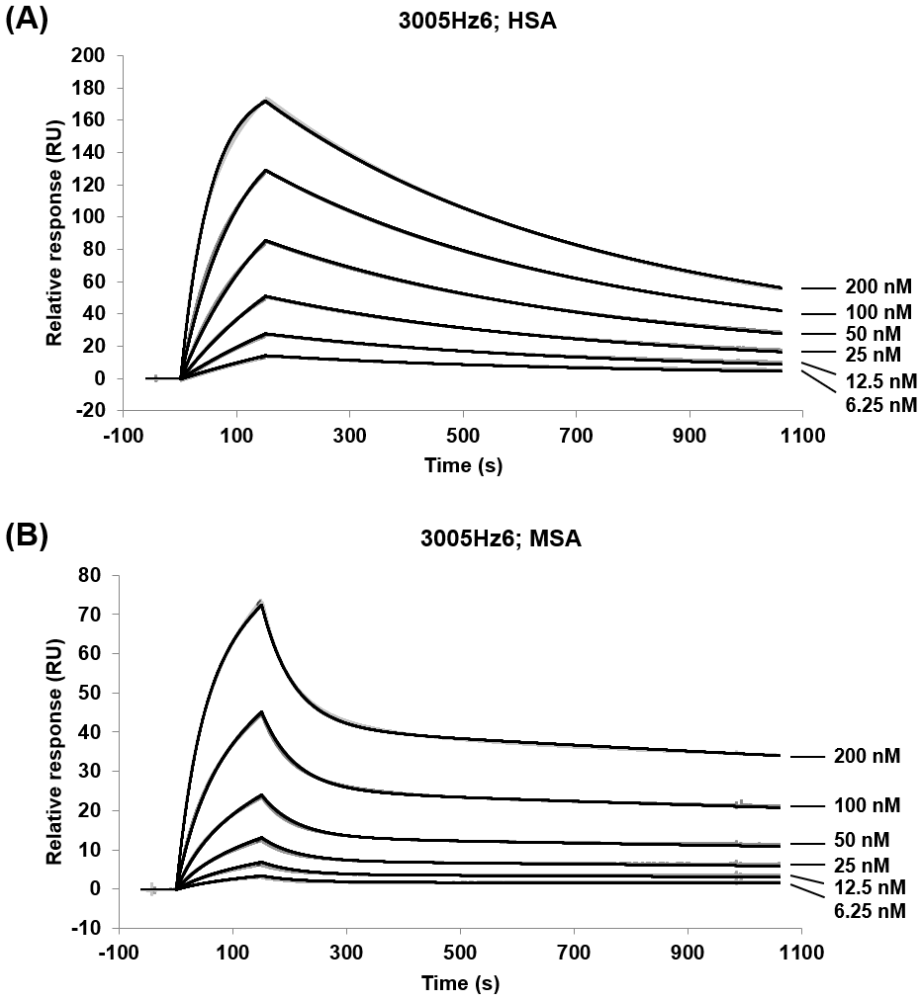

(A)
3005Hz6; HSA
Relative response (RU)
Time (s)
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
(B)
3005Hz6; MSA
Relative response (RU)
Time (s)
200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM

FIG. 6

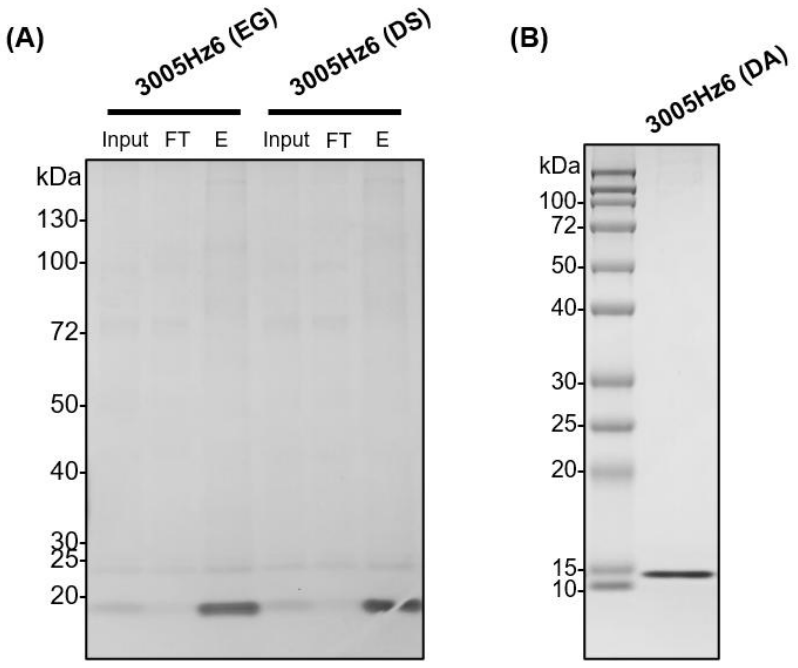

(A)
3005Hz6 (EG)
3005Hz6 (DS)
Input FT E Input FT E
kDa
130
100
72
50
40
30
25
20
(B)
3005Hz6 (DA)
kDa
100
72
50
40
30
25
20
15
10

FIG. 7

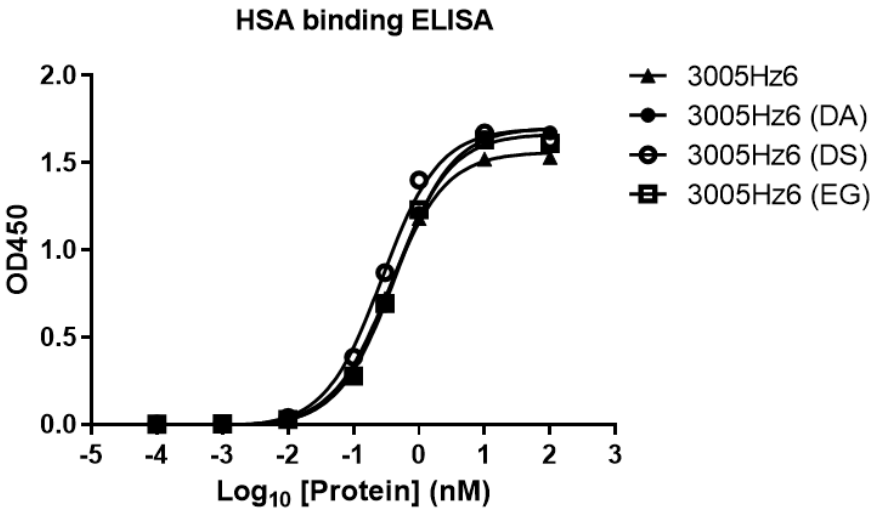


FIG. 8

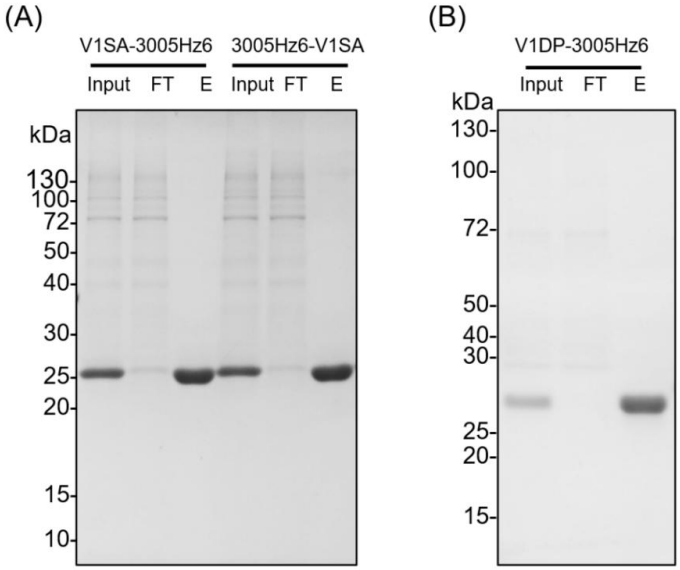


FIG. 9

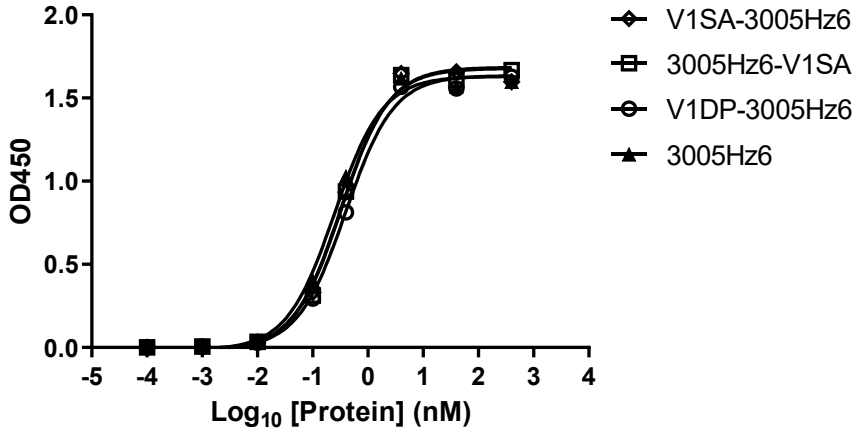


FIG. 10

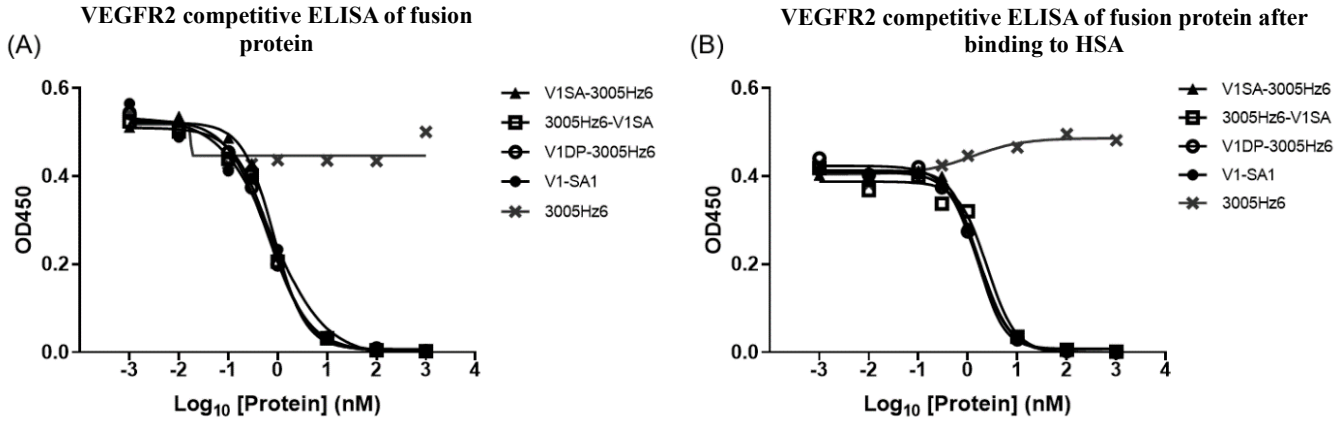

(A)
VEGFR2 competitive ELISA of fusion protein
OD450
Log10 [Protein] (nM)
V1SA-3005Hz6
3005Hz6-V1SA
V1DP-3005Hz6
V1-SA1
3005Hz6
(B)
VEGFR2 competitive ELISA of fusion protein after binding to HSA
OD450
Log10 [Protein] (nM)
V1SA-3005Hz6
3005Hz6-V1SA
V1DP-3005Hz6
V1-SA1
3005Hz6

FIG. 11

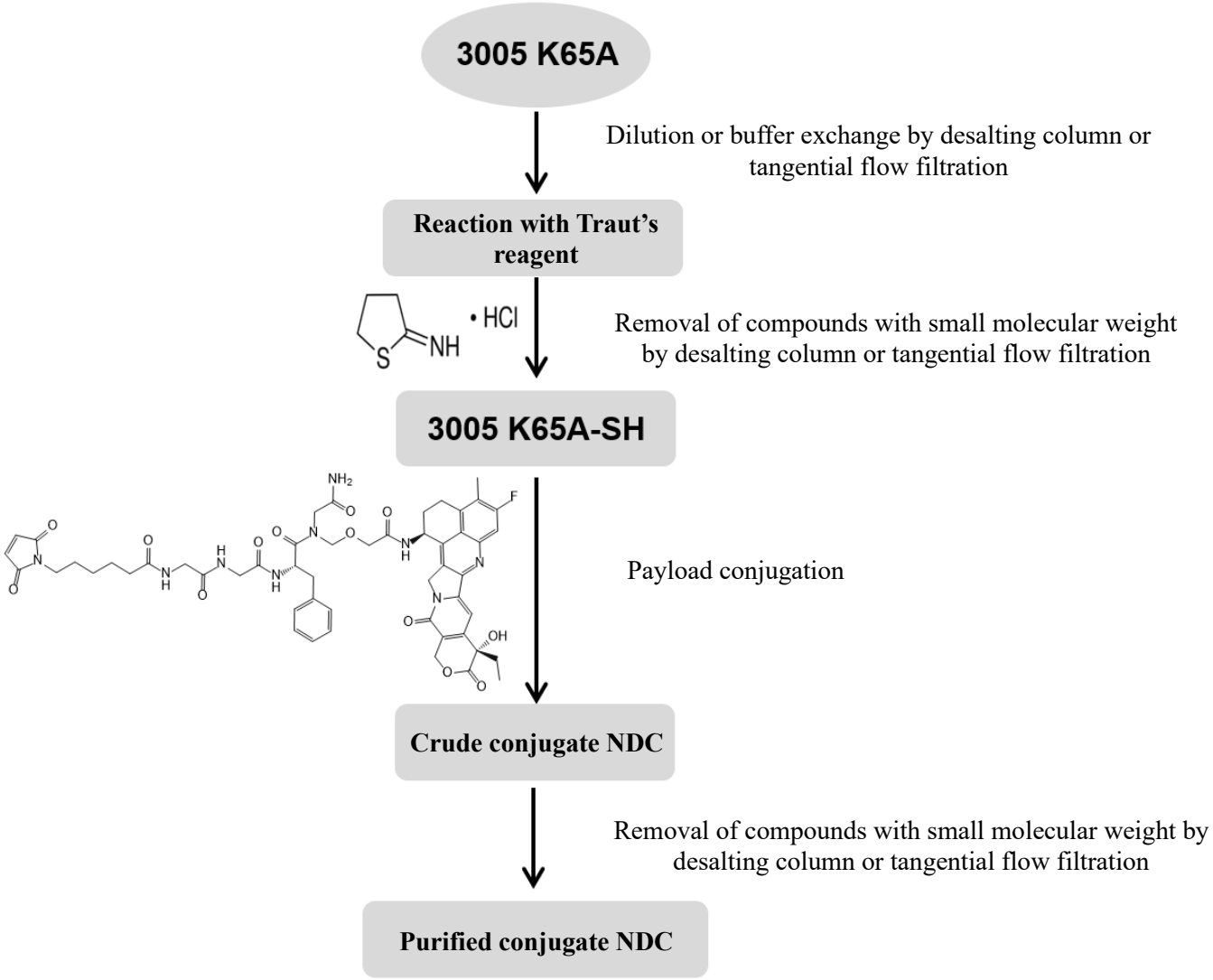

3005 K65A
Dilution or buffer exchange by desalting column or tangential flow filtration
Reaction with Traut's reagent
• HCl
Removal of compounds with small molecular weight by desalting column or tangential flow filtration
3005 K65A-SH
Payload conjugation
Crude conjugate NDC
Removal of compounds with small molecular weight by desalting column or tangential flow filtration
Purified conjugate NDC

FIG. 12

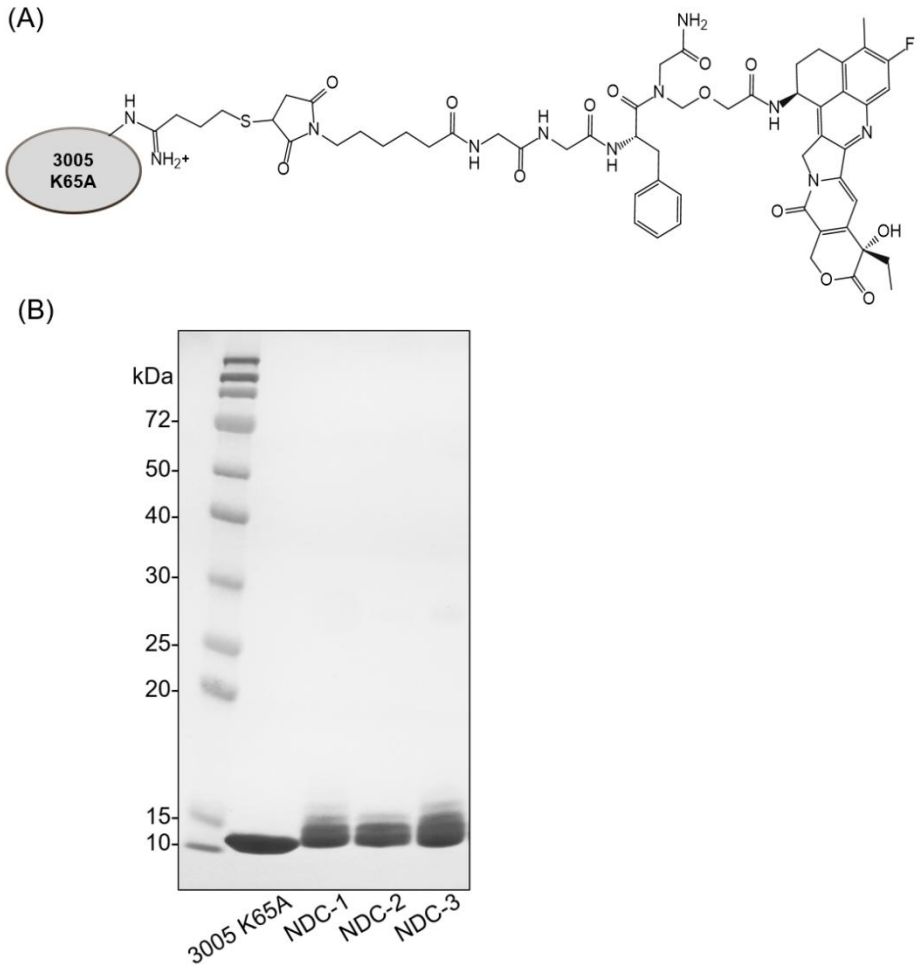
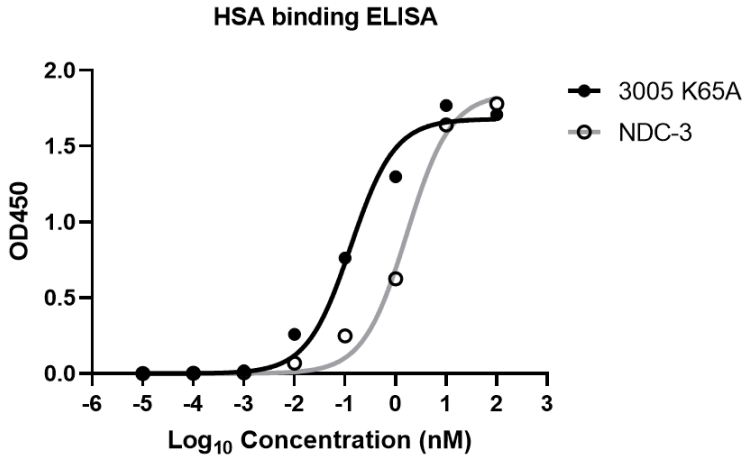


FIG. 13

(A)



(B)

Mia Paca-2 cell proliferation inhibition assay

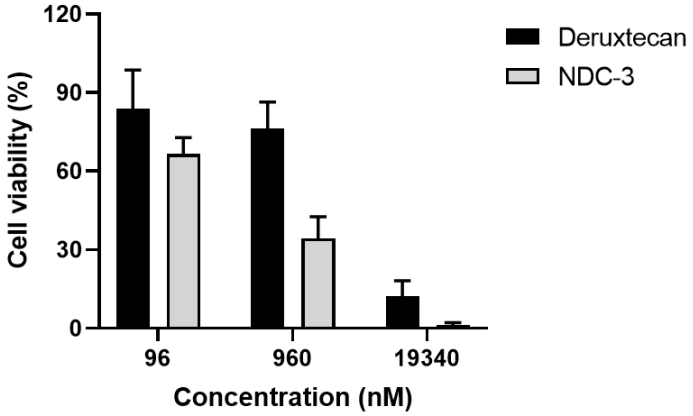


FIG. 14

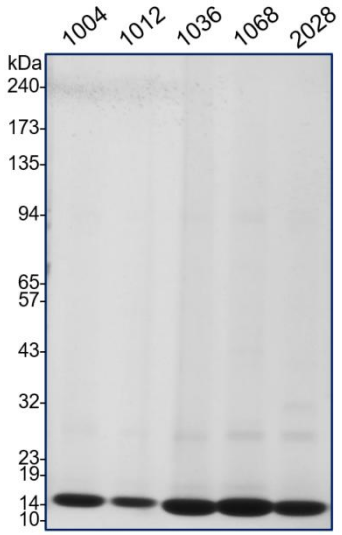
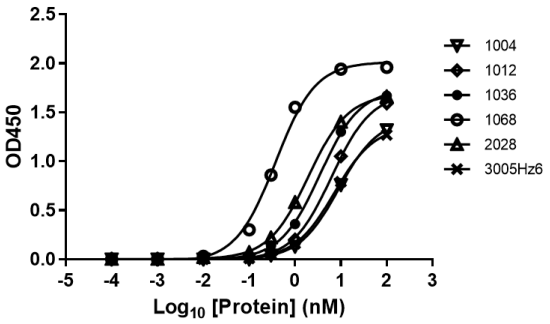


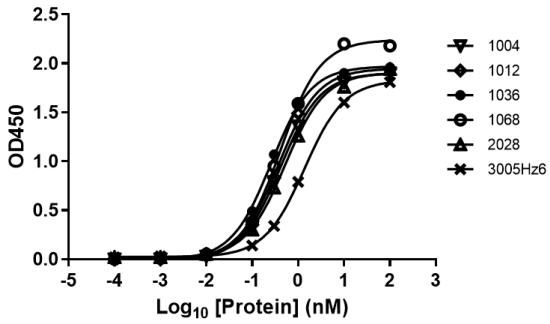
FIG. 15

(A)



Protein	1004	1012	1036	1068	2028	3005Hz6
Max OD450	1.44	1.70	1.74	2.01	1.69	1.36
EC50 (nM)	8.98	6.33	3.53	0.38	1.96	7.26

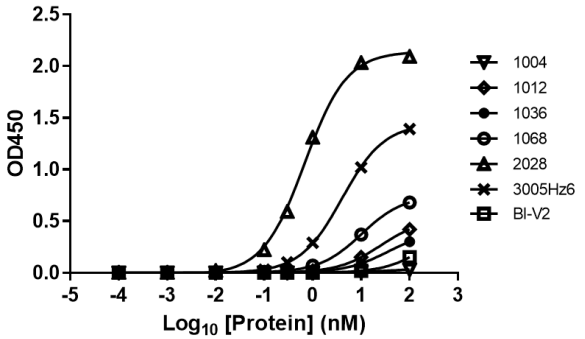
(B)



Protein	1004	1012	1036	1068	2028	3005Hz6
Max OD450	1.90	1.95	1.97	2.24	1.91	1.83
EC50 (nM)	0.42	0.38	0.26	0.42	0.52	1.38

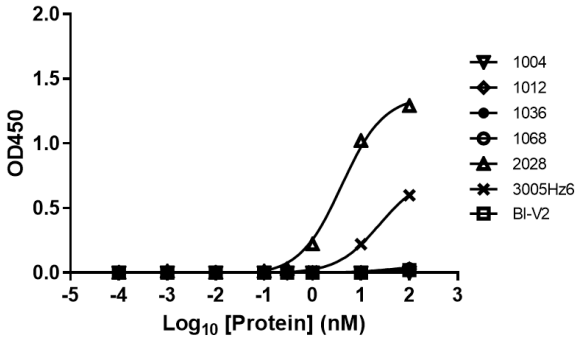
FIG. 16

(A)



Protein	1004	1012	1036	1068	2028	3005Hz6	BI-V2
Max OD450	0.09	0.47	0.36	0.73	2.15	1.45	0.21
EC50 (nM)	/	/	/	10.22	0.69	4.08	/

(B)



Protein	1004	1012	1036	1068	2028	3005Hz6	BI-V2
Max OD450	0.09	0.03	0.04	0.02	1.29	0.60	0.02
EC50 (nM)	/	/	/	/	4.01	23.81	/

FIG. 17

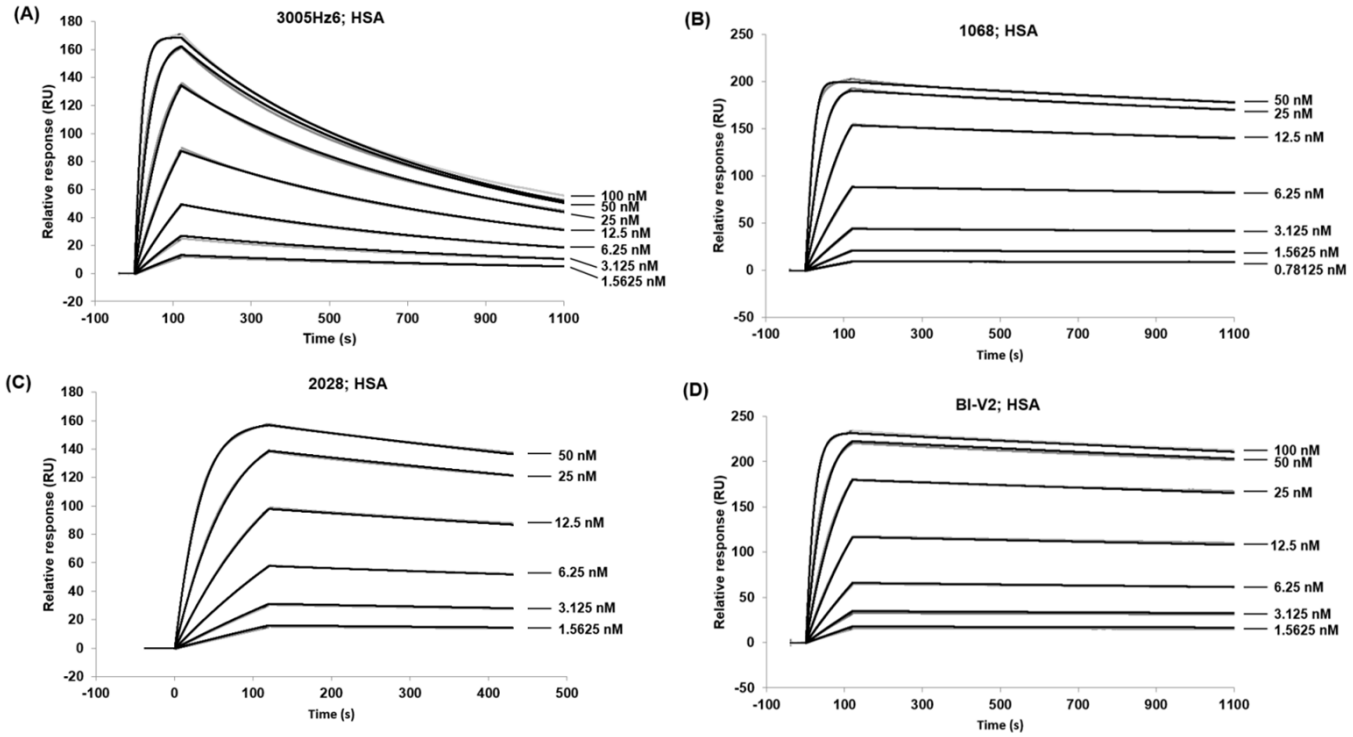

(A)
3005Hz6; HSA
Relative response (RU)
Time (s)
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
3.125 nM
1.5625 nM
(B)
1068; HSA
Relative response (RU)
Time (s)
50 nM
25 nM
12.5 nM
6.25 nM
3.125 nM
1.5625 nM
0.78125 nM
(C)
2028; HSA
Relative response (RU)
Time (s)
50 nM
25 nM
12.5 nM
6.25 nM
3.125 nM
1.5625 nM
(D)
BI-V2; HSA
Relative response (RU)
Time (s)
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
3.125 nM
1.5625 nM

FIG. 18