

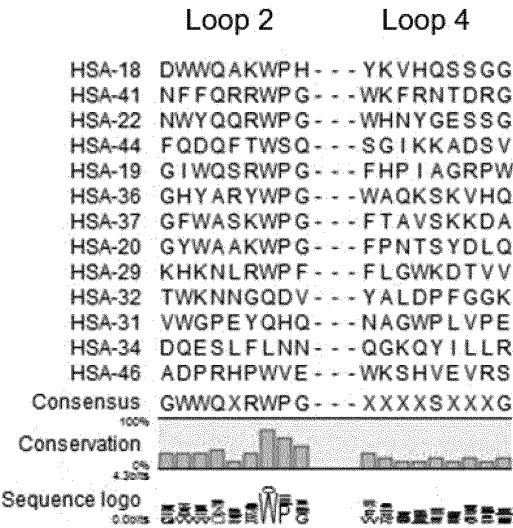


FIG. 1

Clone HSA-19, 20, 36 and 37

loop 2										loop 4									
G	I	W	A	S	K	W	P	G	F	X	X	X	S	K	X	X	X	Q	
	Y	Y	Q	R	R				W				A	G			W		
	F			A	A								Y				A		
	H																		

clone HSA-22 and 41

N	W	Y	Q	Q	R	W	P	G	W	H	X	X	X	X	X	X	G		
	F	F			R												K		

clone HSA-18, 48, 49 and 50

E	W	W	Q	X	R	W	P	G	Y	X	X	H	K	X	X	X	X		
D	F	Y			K			N	F				K	Q					
					H			H	W				A	V					
														Q					

FIG. 2

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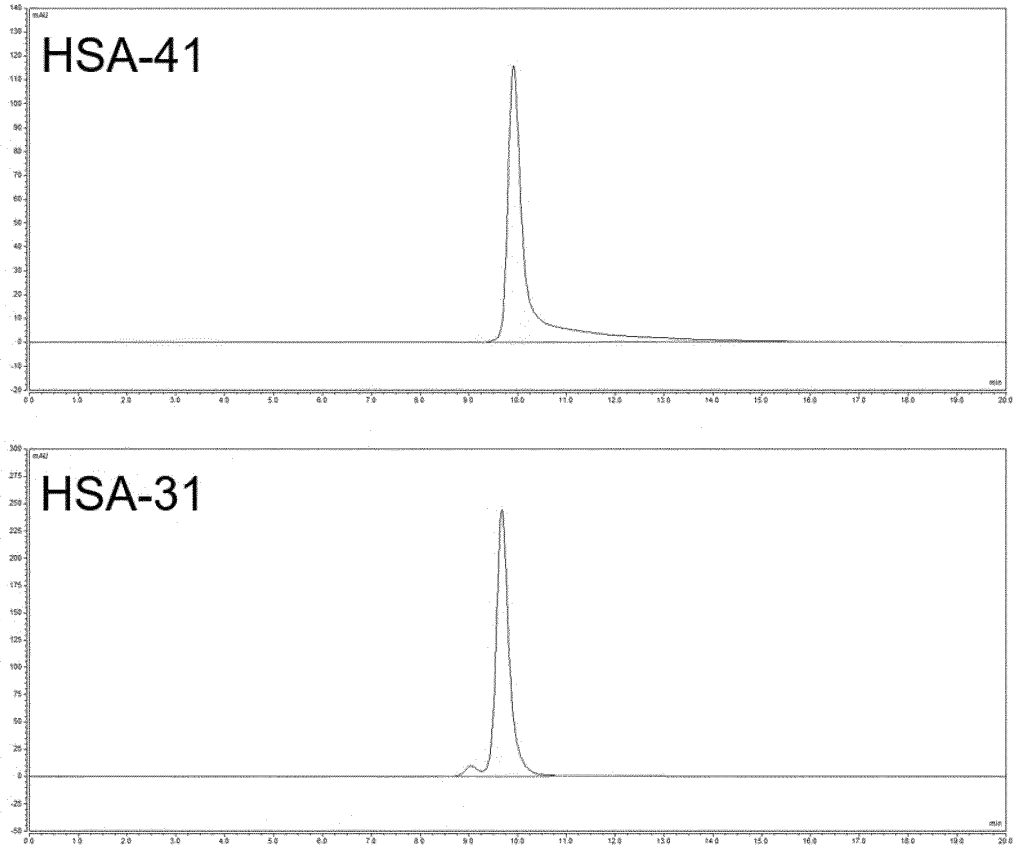


FIG. 3A

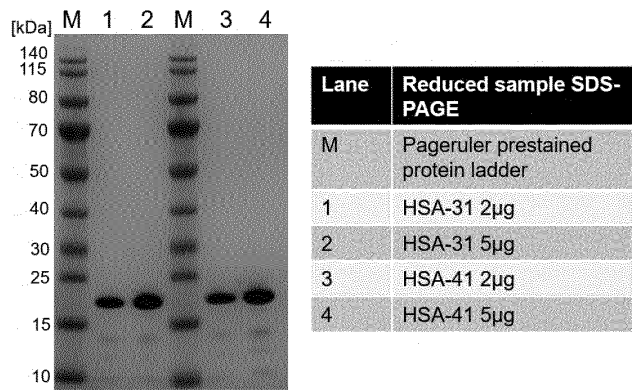
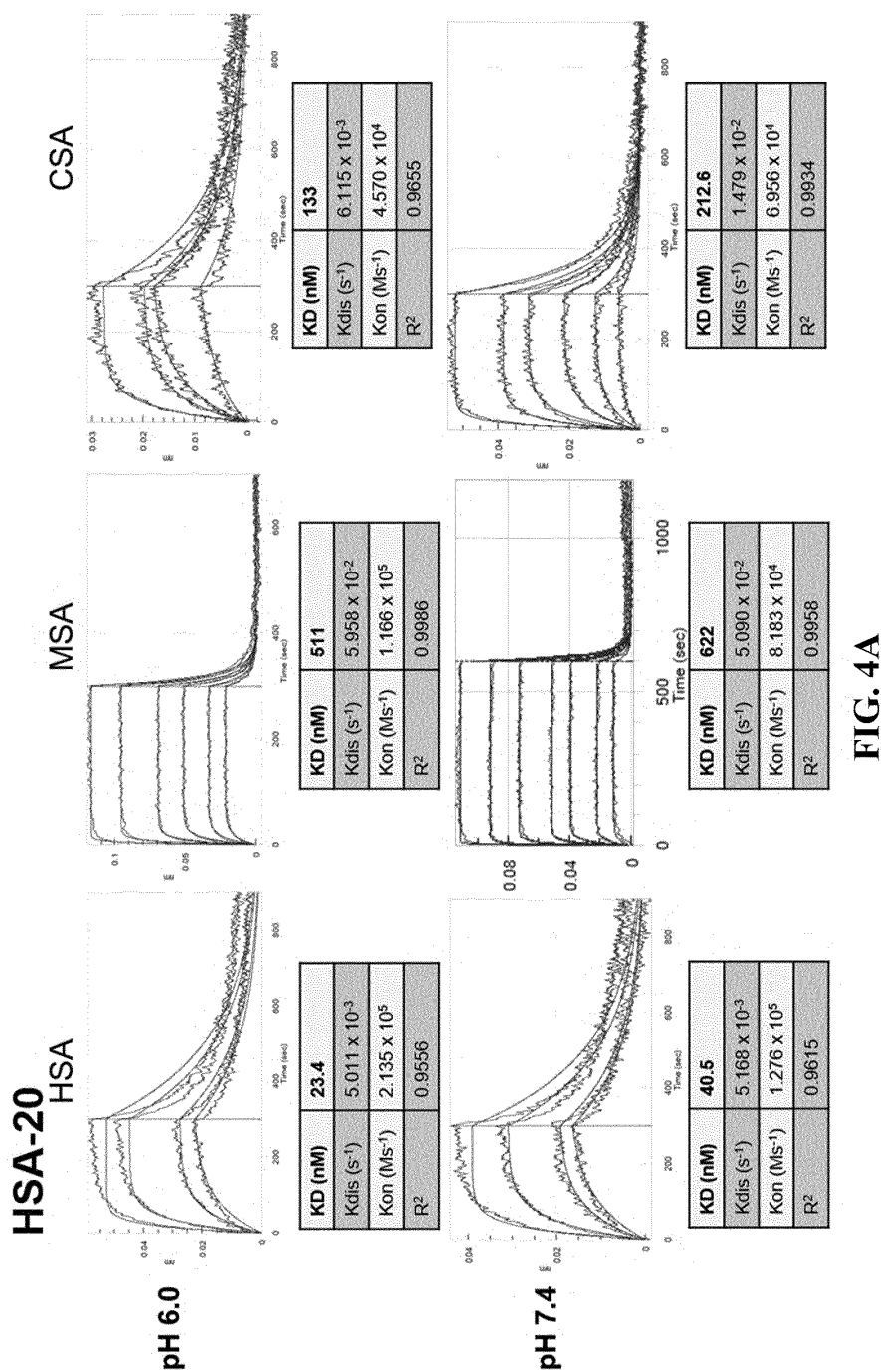
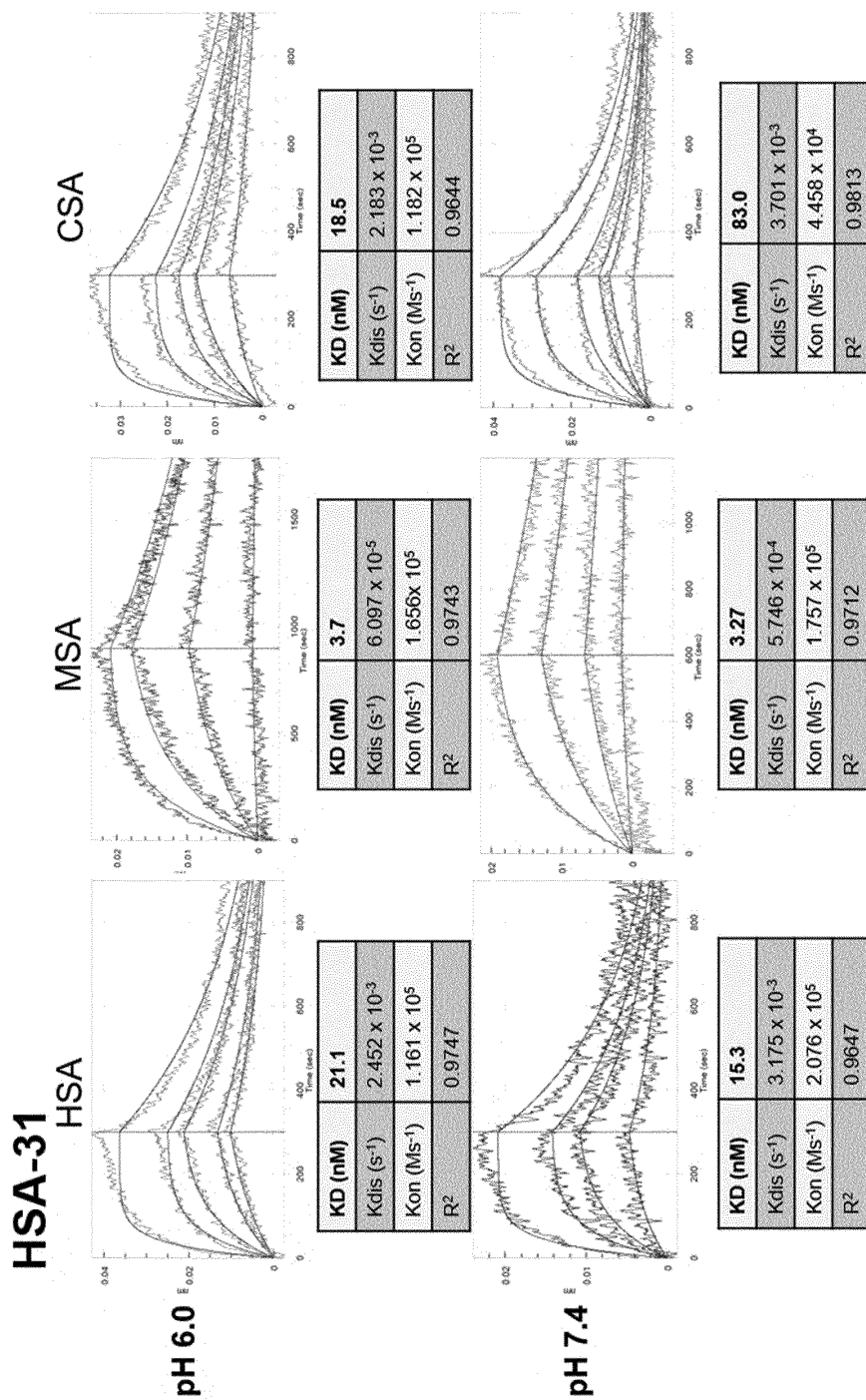
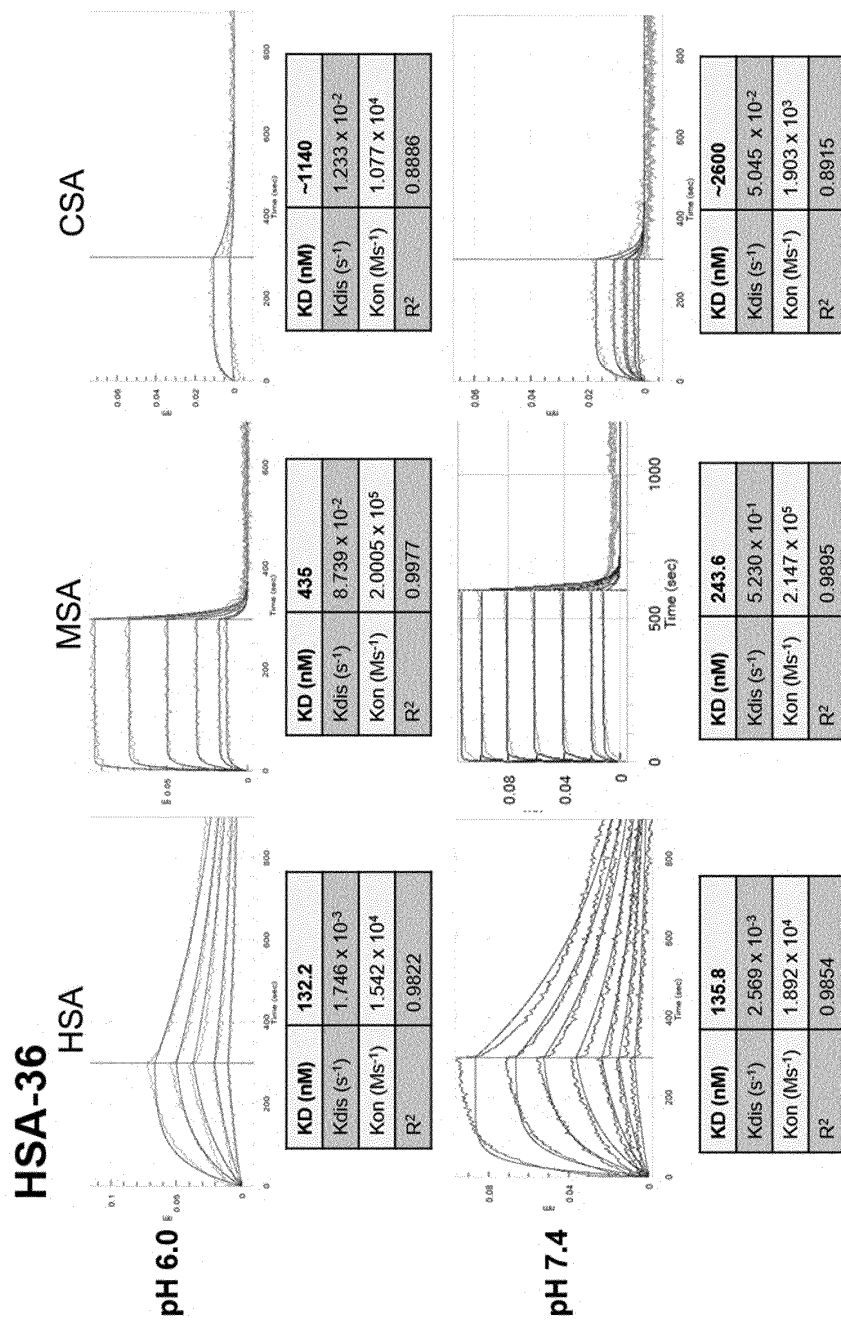
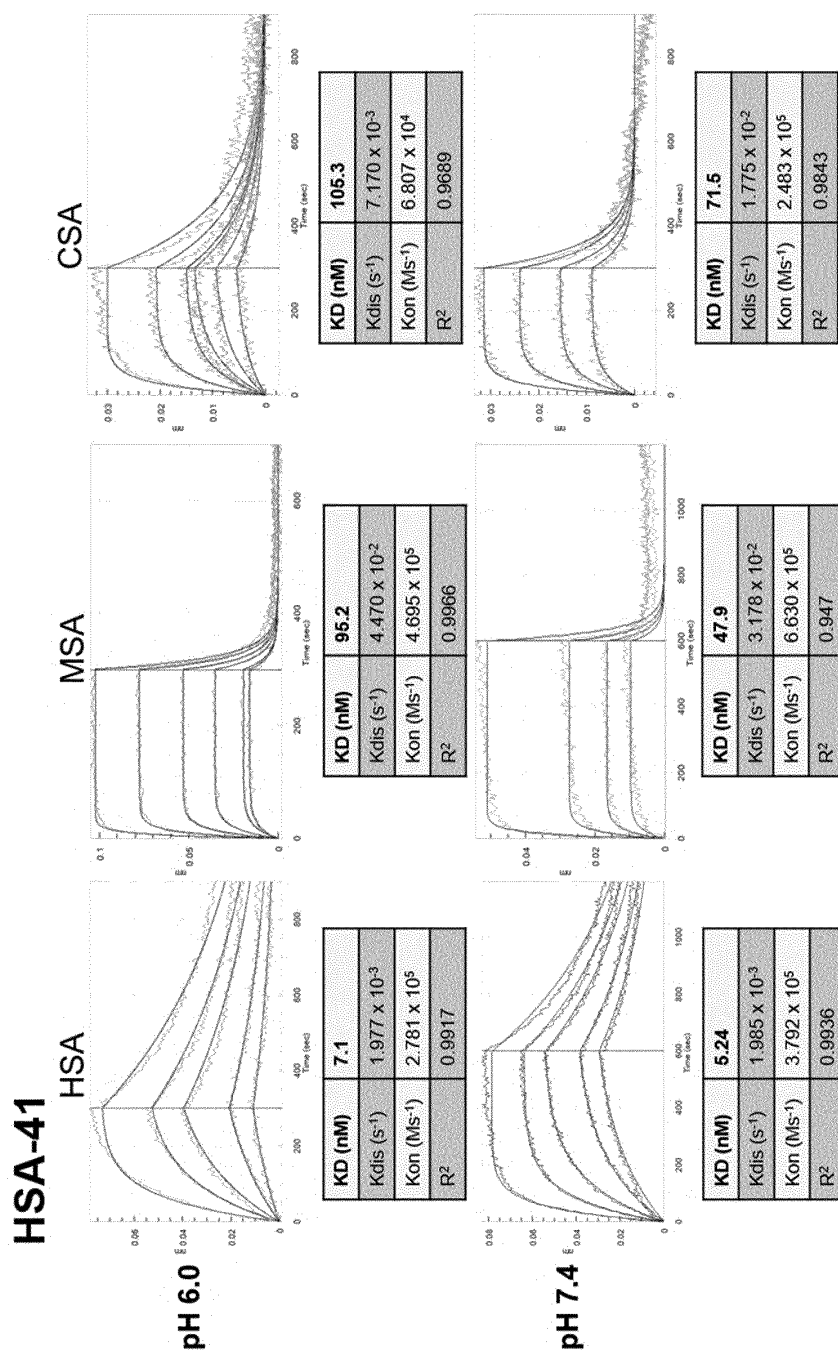


FIG. 3B









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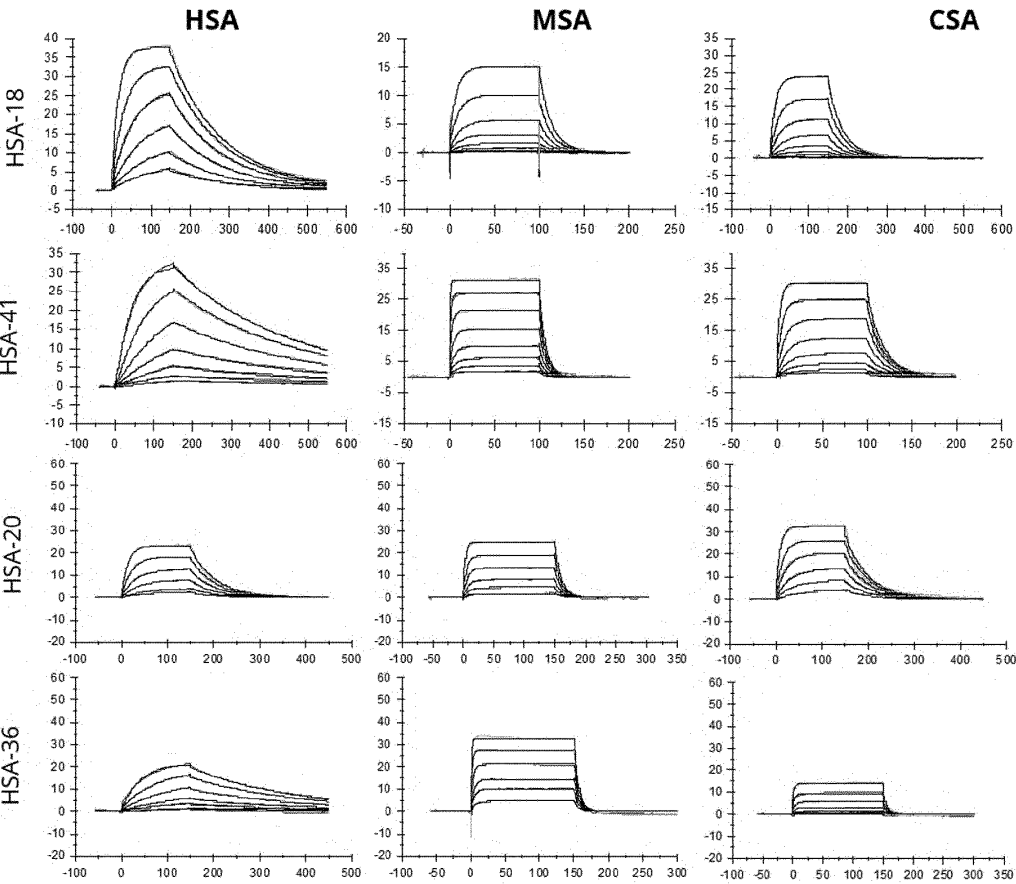


FIG. 5

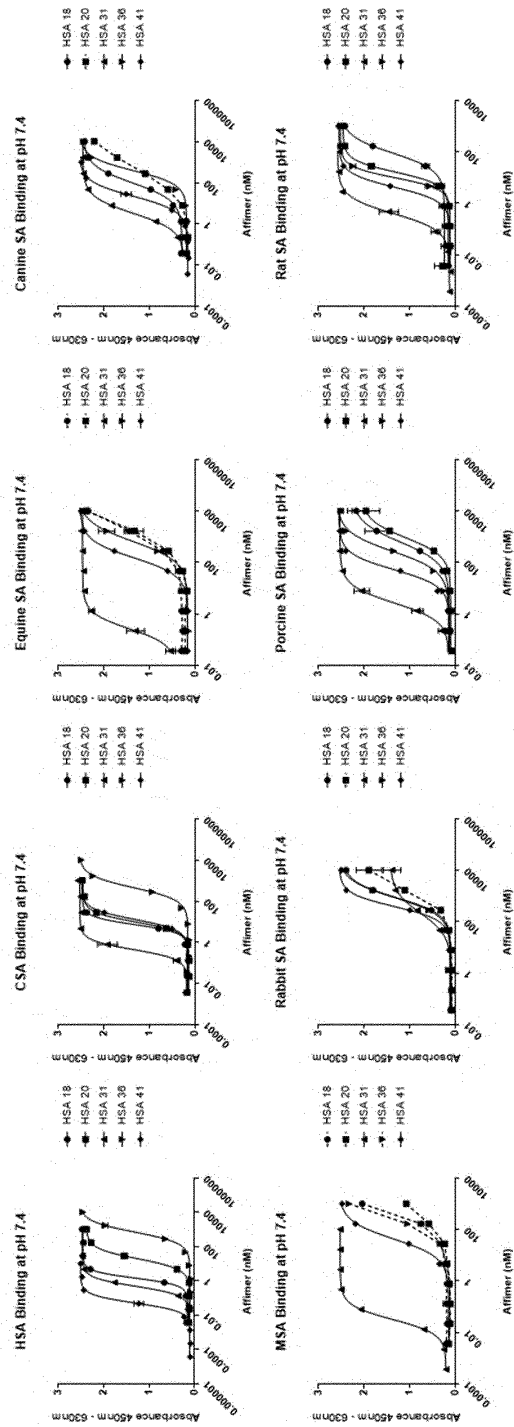


FIG. 6

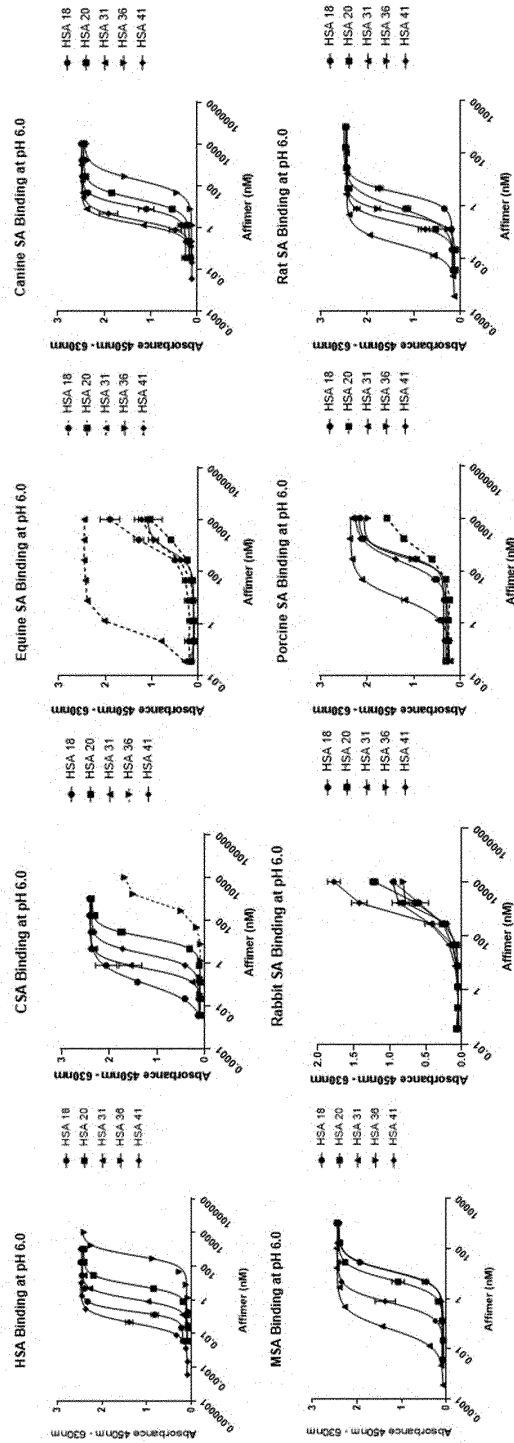
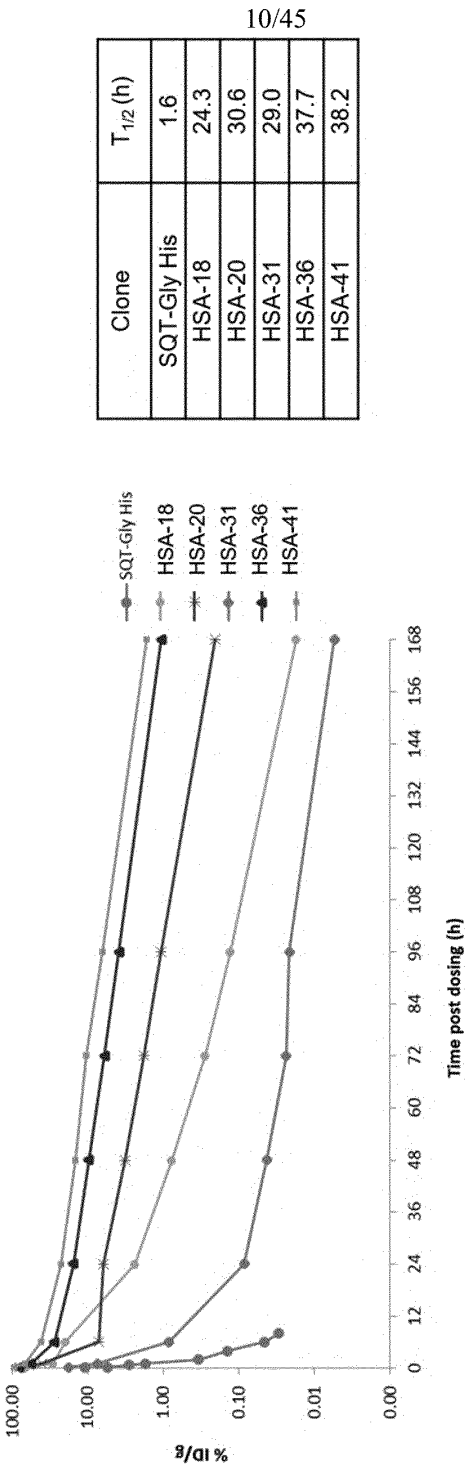
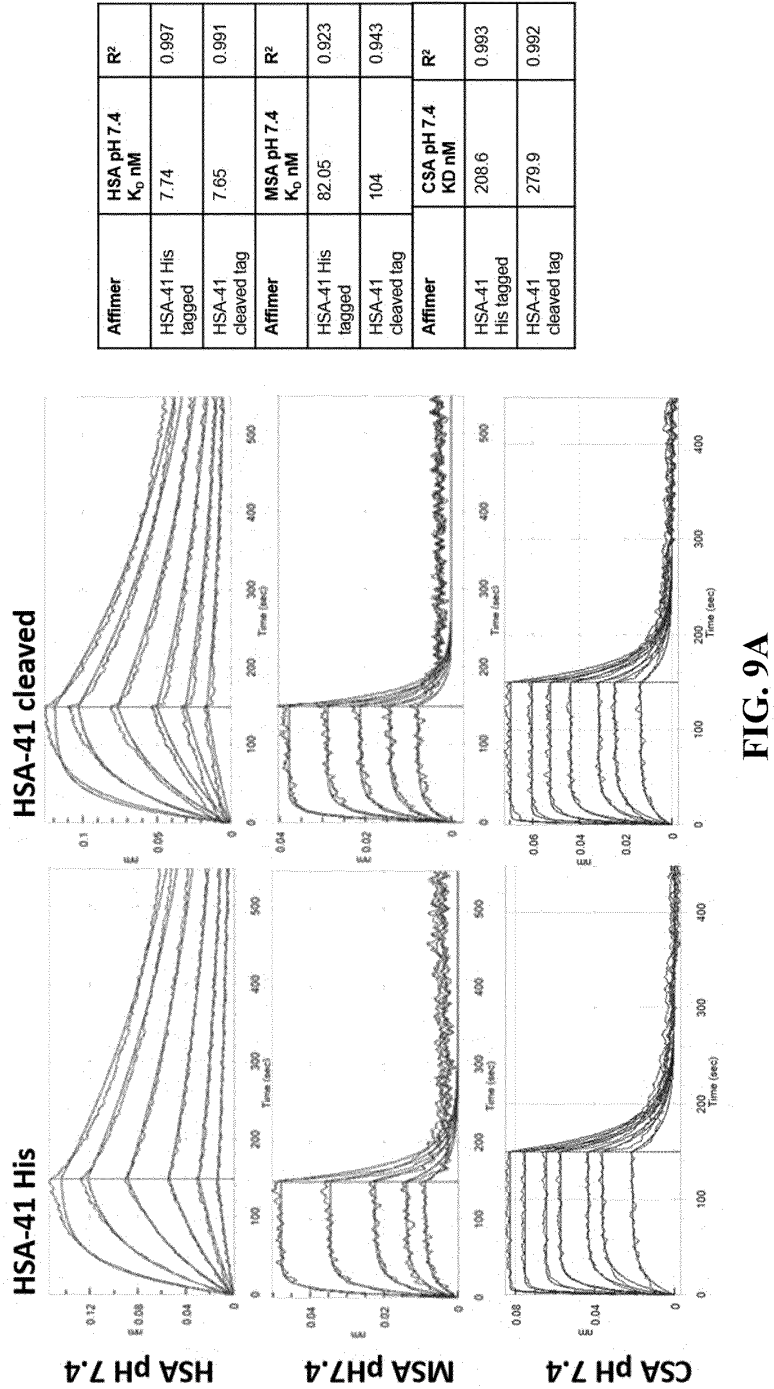
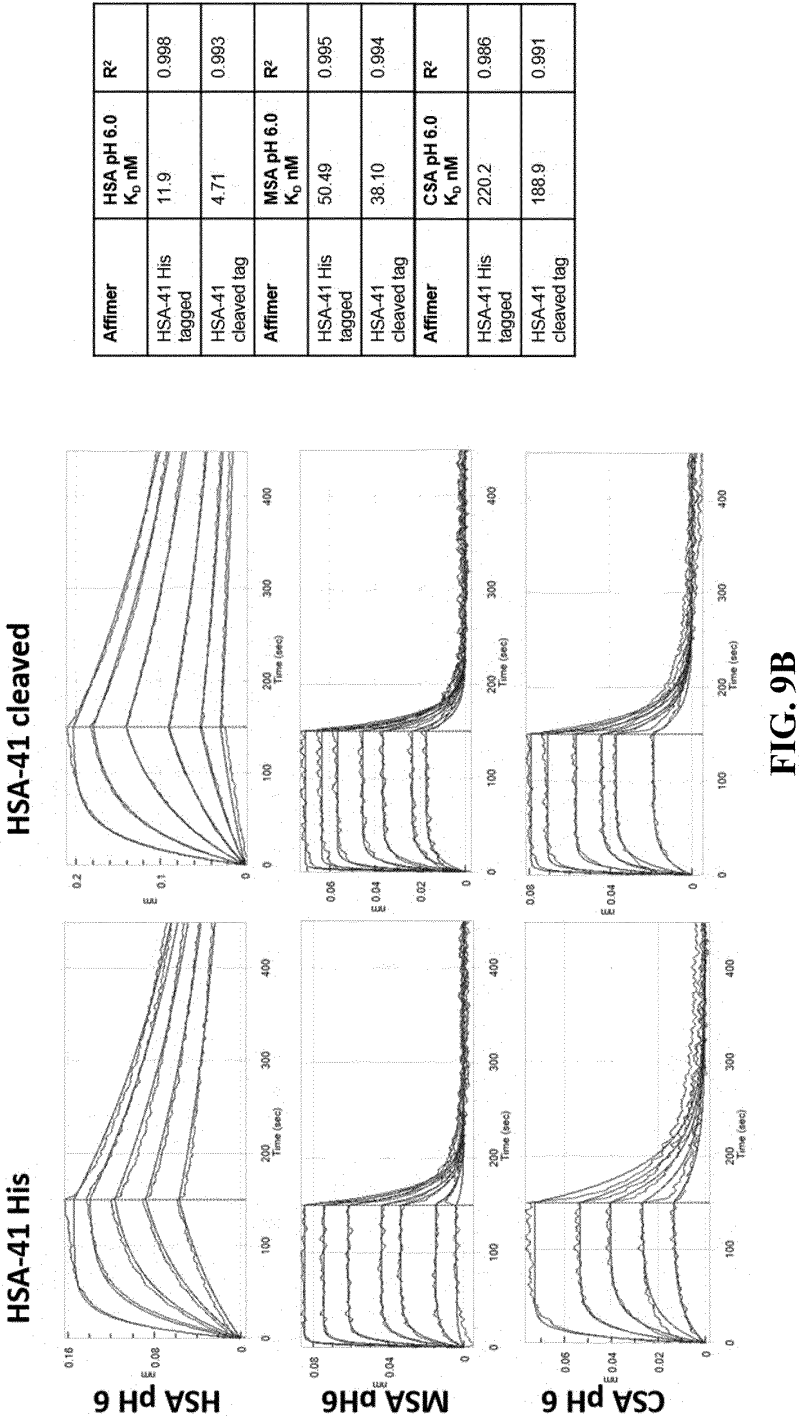


FIG. 7







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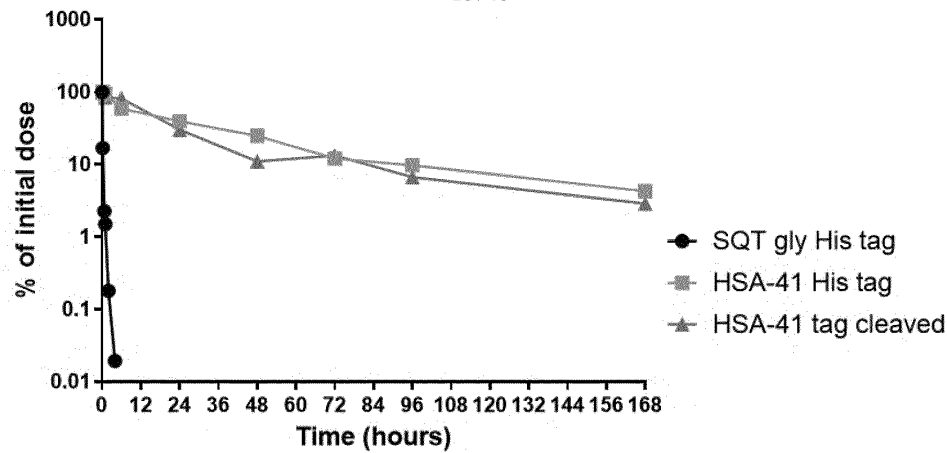


FIG. 10

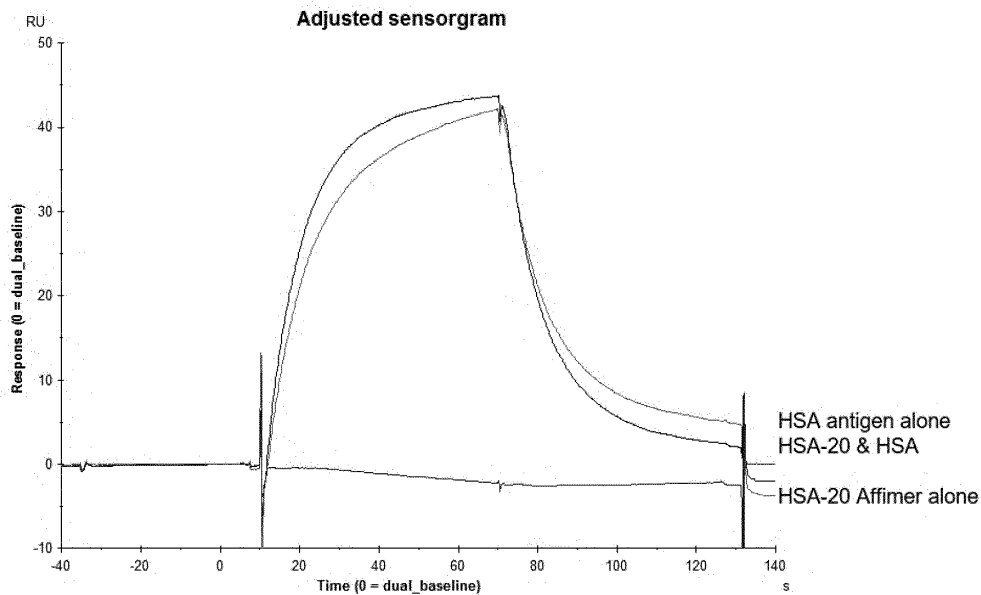


FIG. 11

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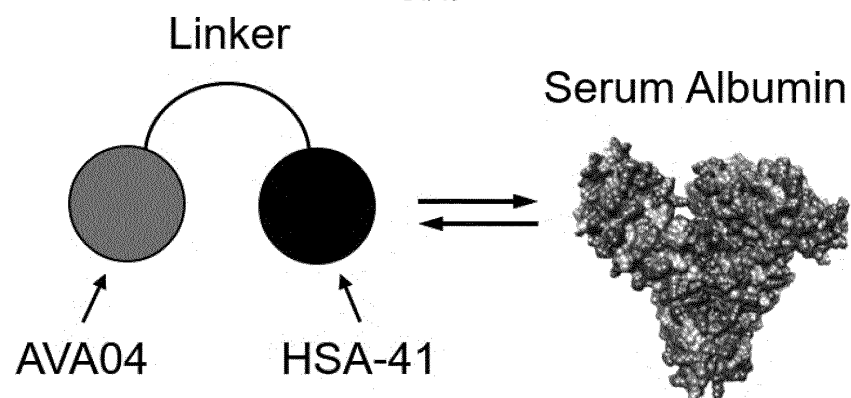


FIG. 12A

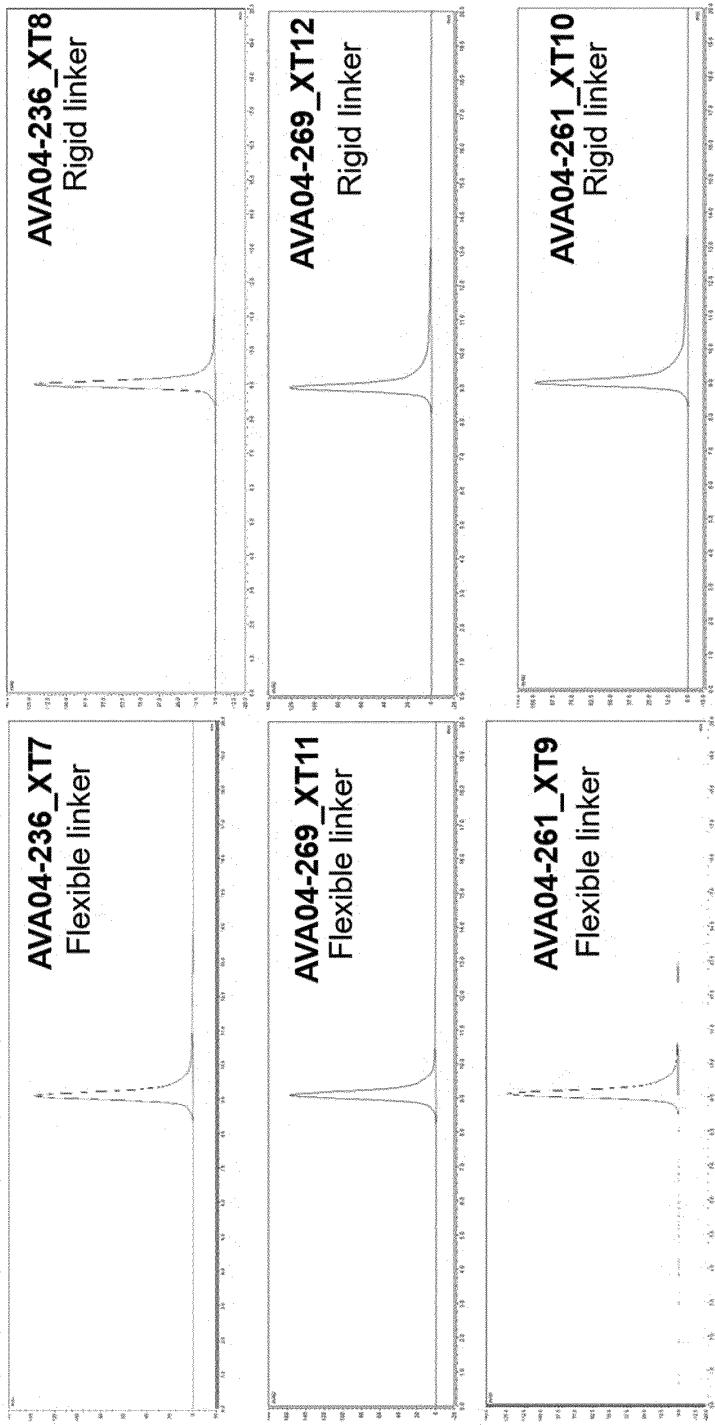
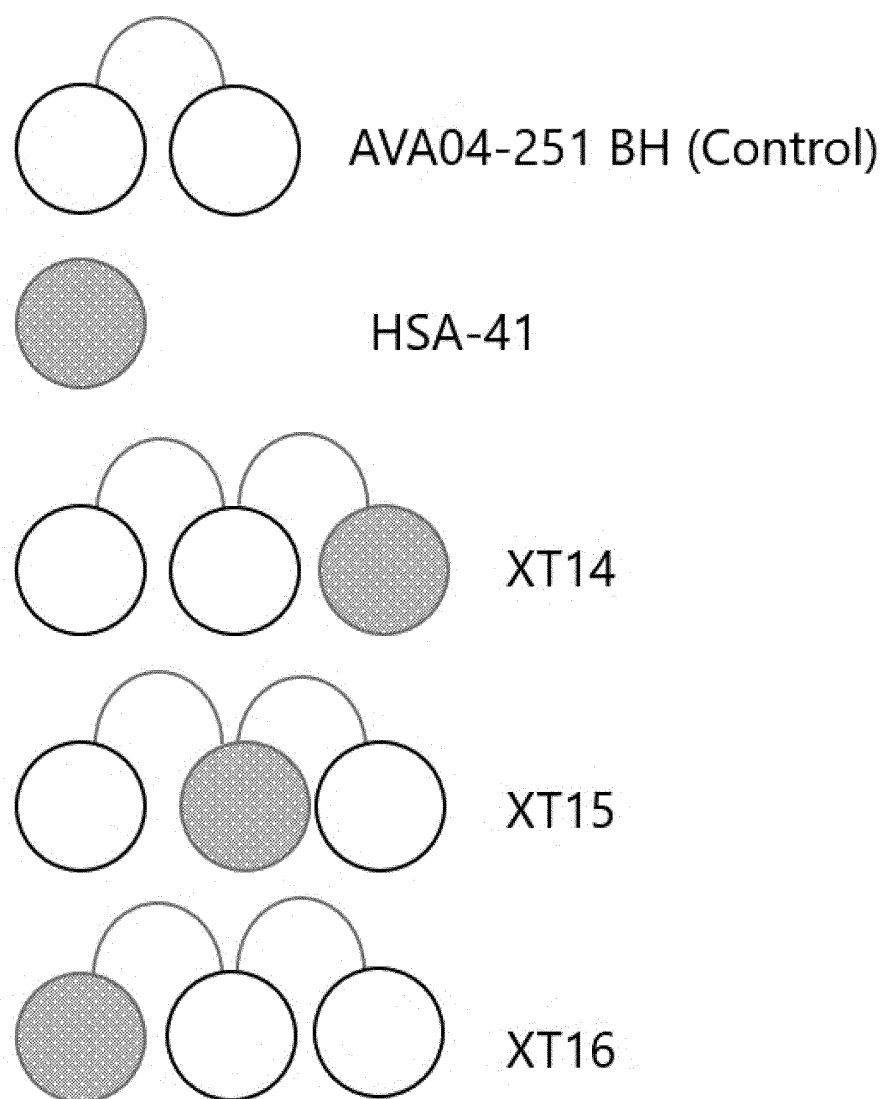
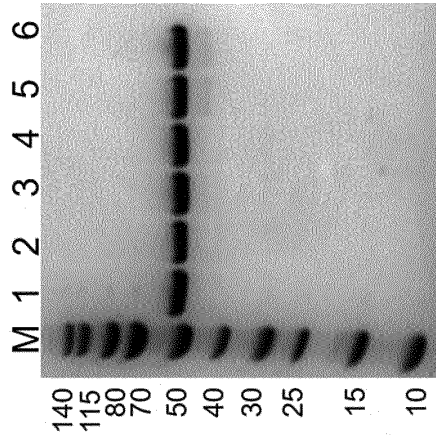
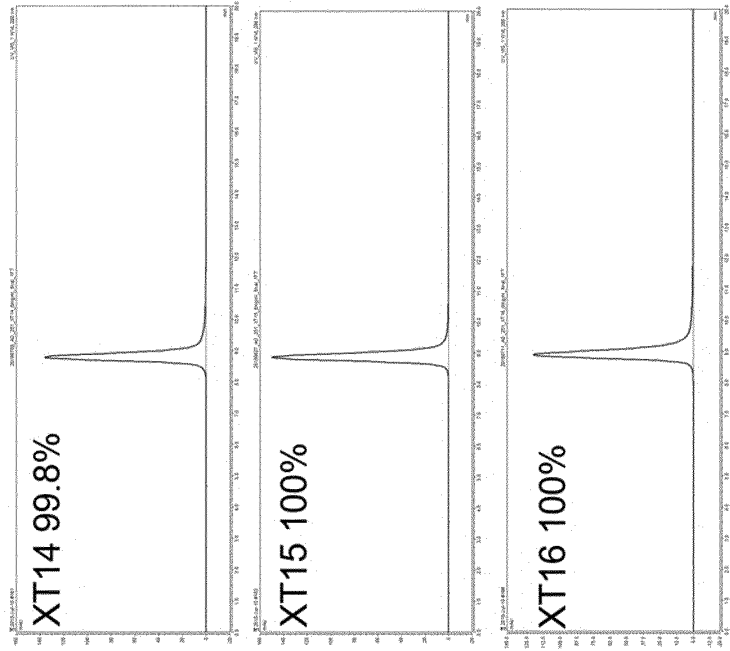


FIG. 12B

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**FIG. 13**



Lane	Description
M	PageRuler Prestained Ladder
1	XT14 3mg/ml
2	XT14 6mg/ml
3	XT15 3mg/ml
4	XT15 6mg/ml
5	XT16 3mg/ml
6	XT16 6mg/ml

FIG. 14

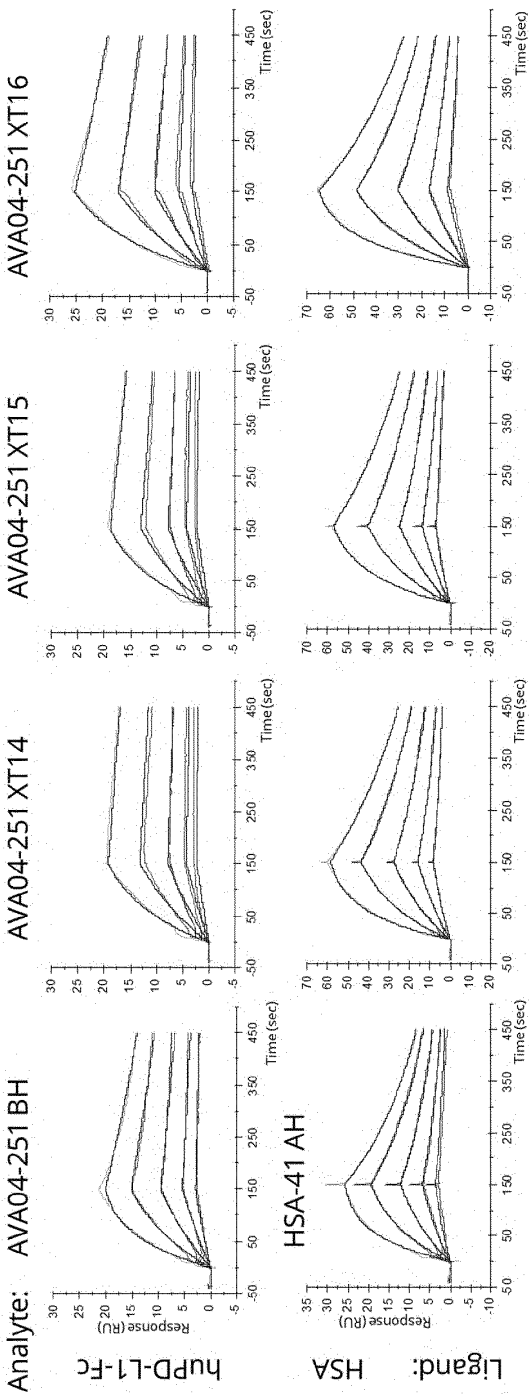
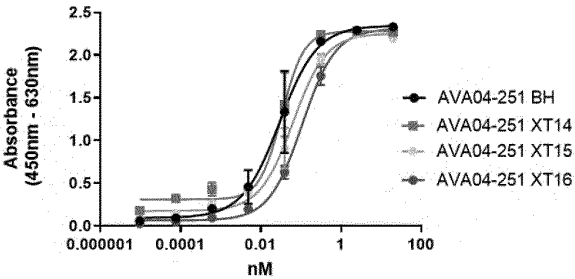


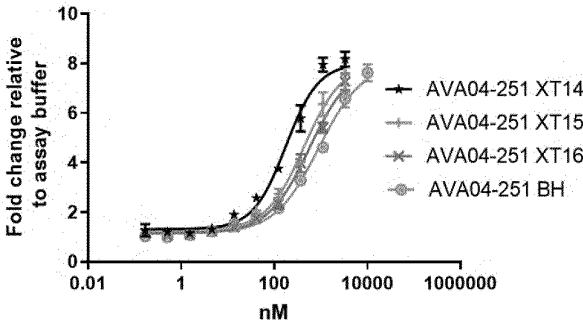
FIG. 15

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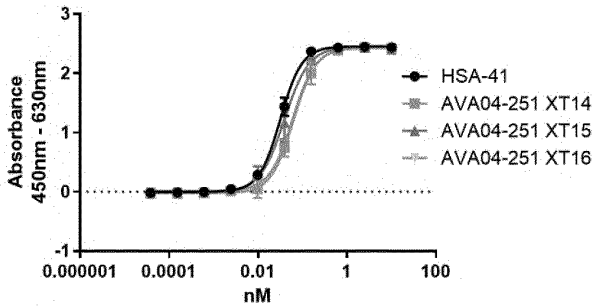
IC ₅₀ (nM)	
AVA04-251 BH	0.03
AVA04-251 XT14	0.033
AVA04-251 XT15	0.064
AVA04-251 XT16	0.11

FIG. 16



IC ₅₀ (nM)	
AVA04-251 BH	893
AVA04-251 XT14	176
AVA04-251 XT15	434
AVA04-251 XT16	564

FIG. 17



EC ₅₀ (nM) pH 7.4	
HSA-41	0.04
AVA04-251 XT14	0.062
AVA04-251 XT15	0.039
AVA04-251 XT16	0.059

FIG. 18

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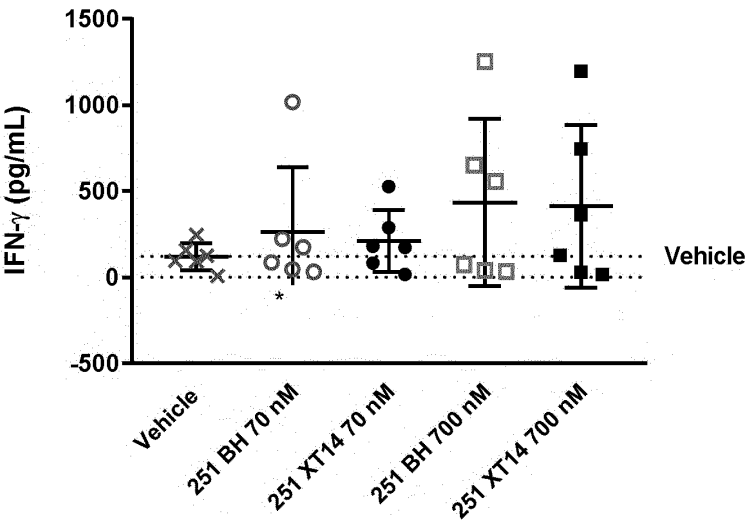
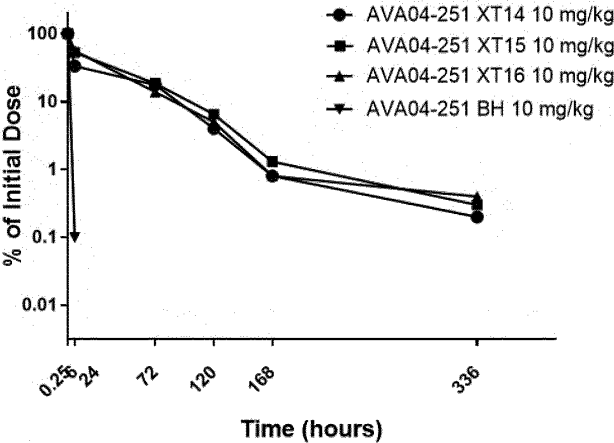


FIG. 19



Half-life $t_{1/2}$	AVA04-251 BH	AVA04-251 XT14	AVA04-251 XT15	AVA04-251 XT16
Average (h)	3.2	23.8	24.19	24.22

FIG. 20

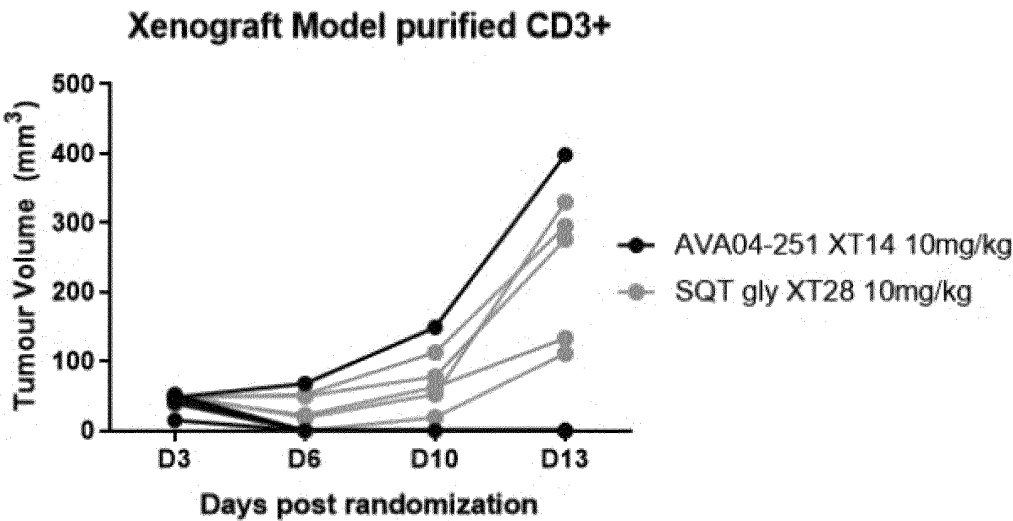


FIG. 21A

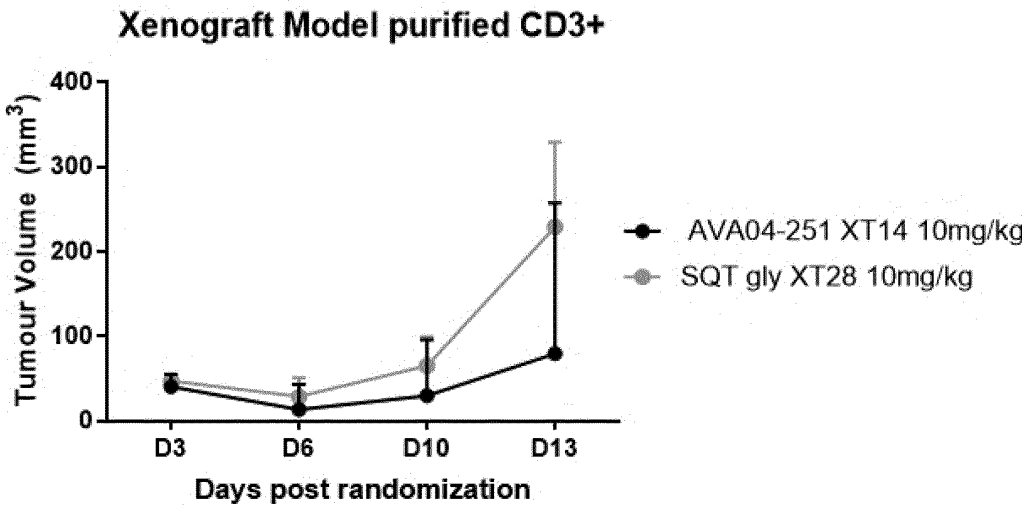


FIG. 21B

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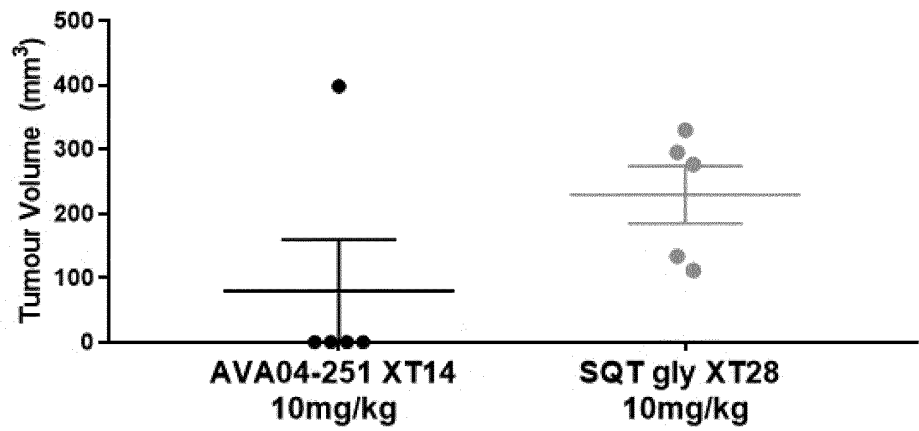


FIG. 21C

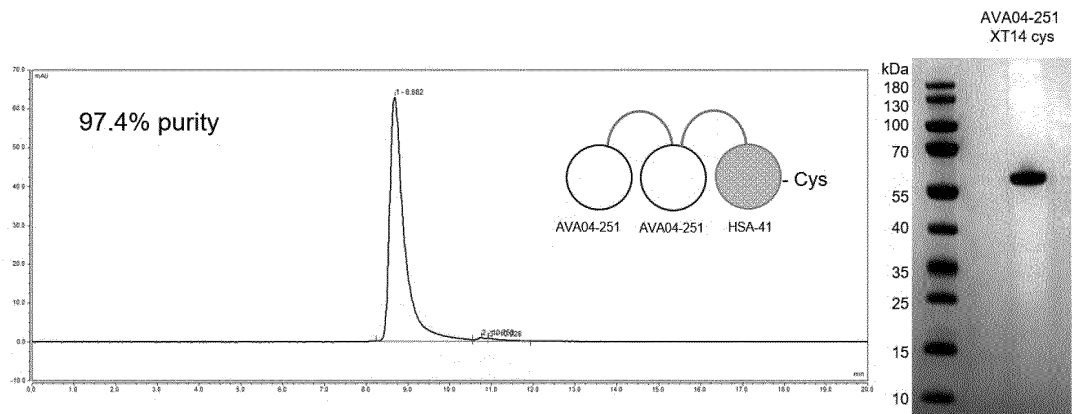


FIG. 22

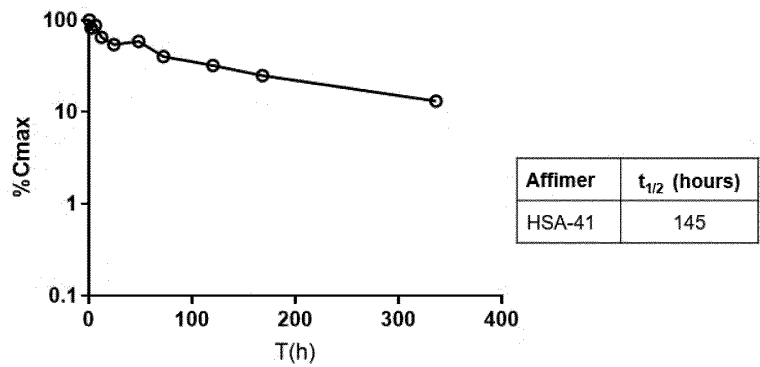


FIG. 23

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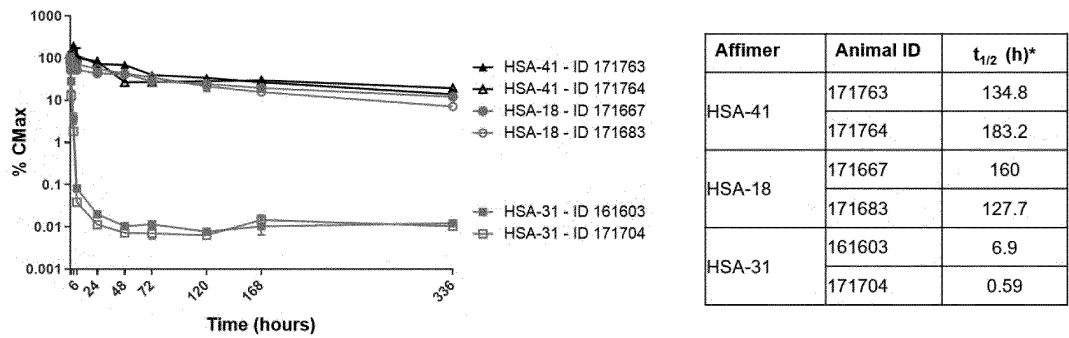


FIG. 24

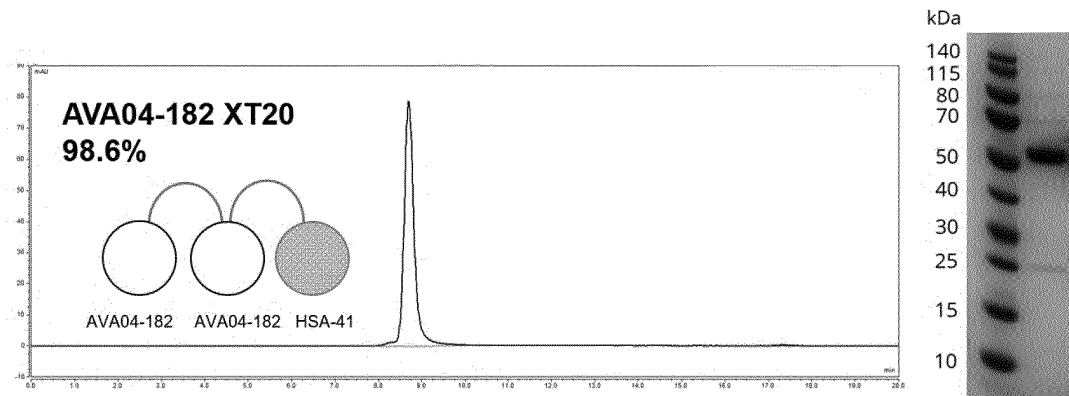


FIG. 25A

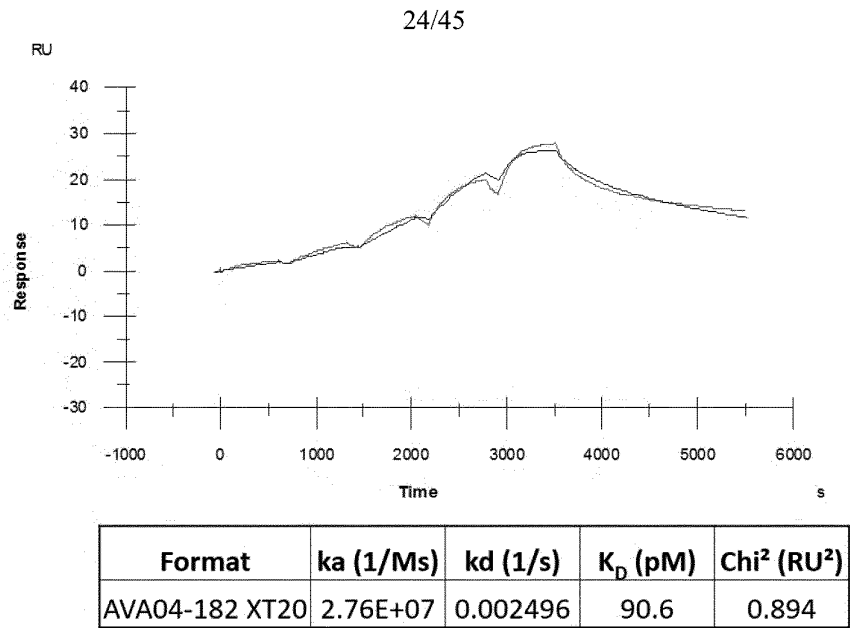


FIG. 25B

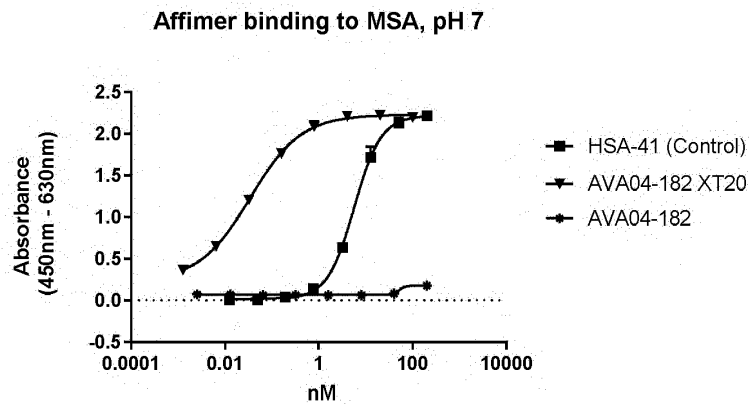


FIG. 26A

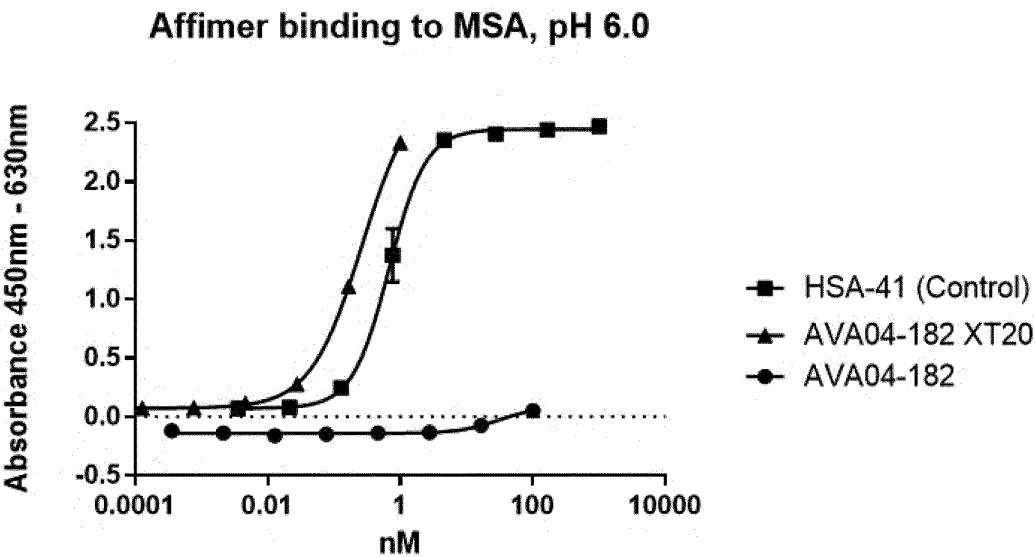


FIG. 26B

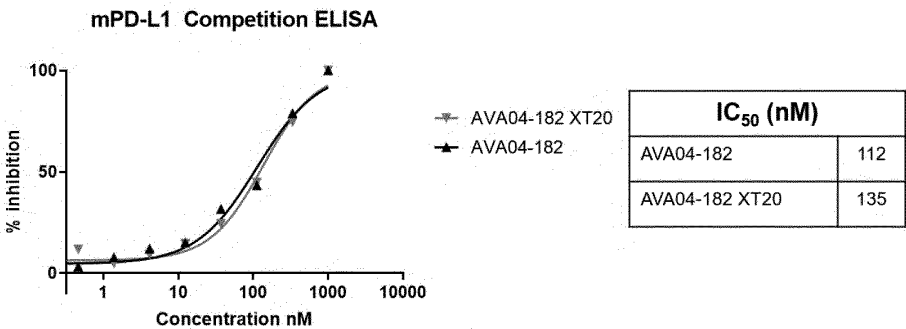


FIG. 26C

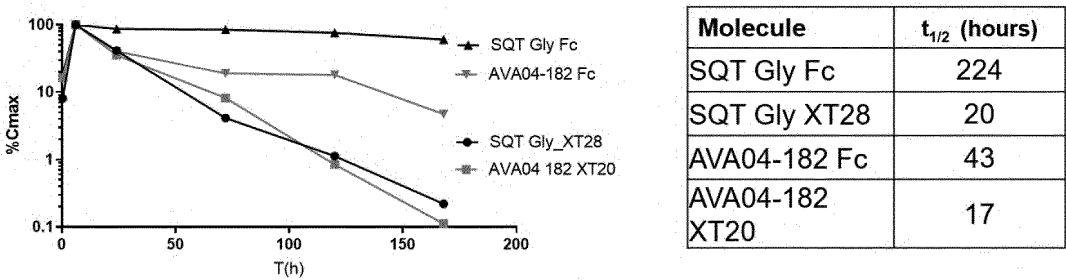


FIG. 27

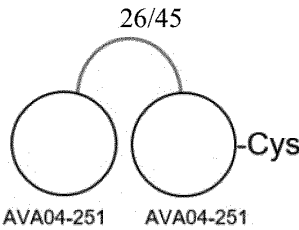


FIG. 28A

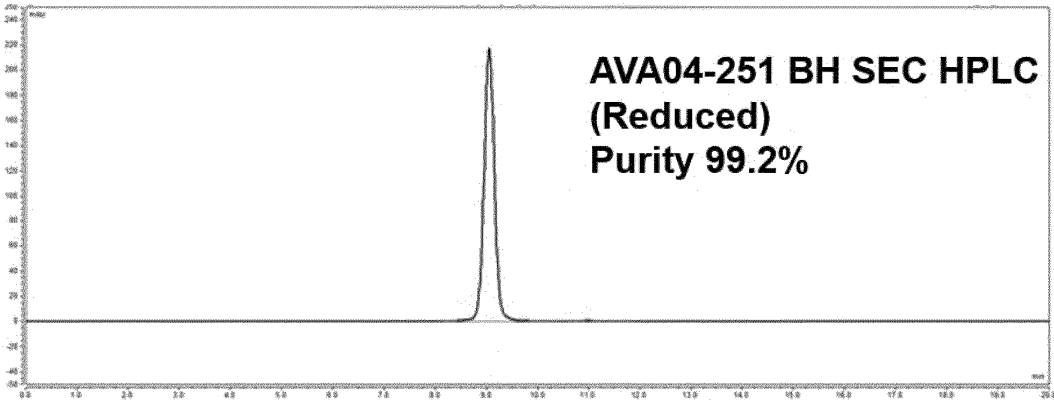


FIG. 28B

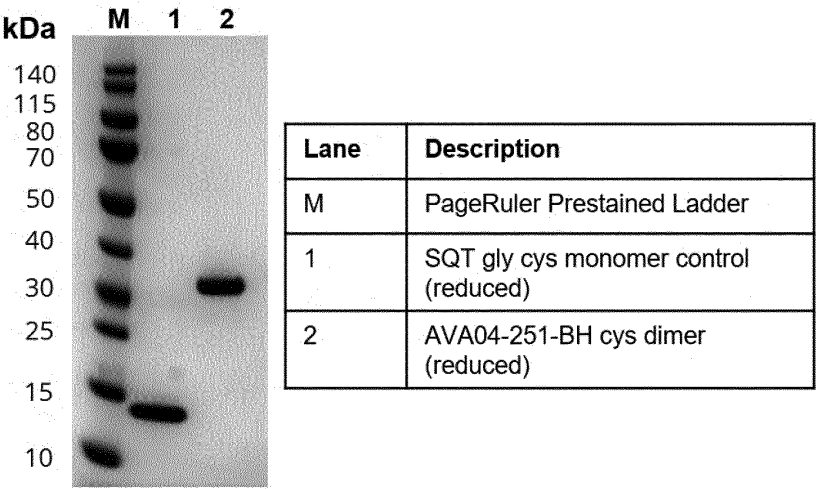


FIG. 28C

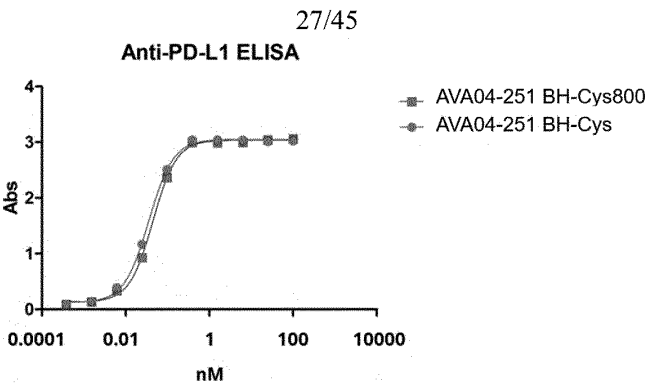


FIG. 29A

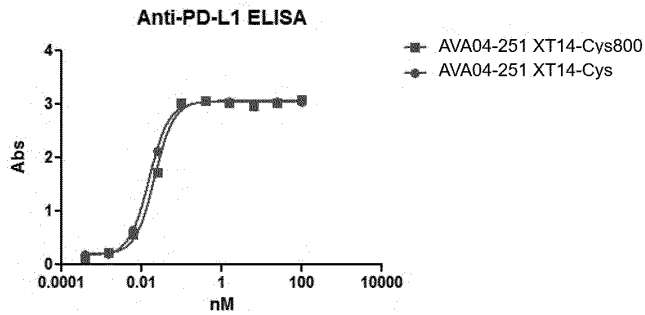
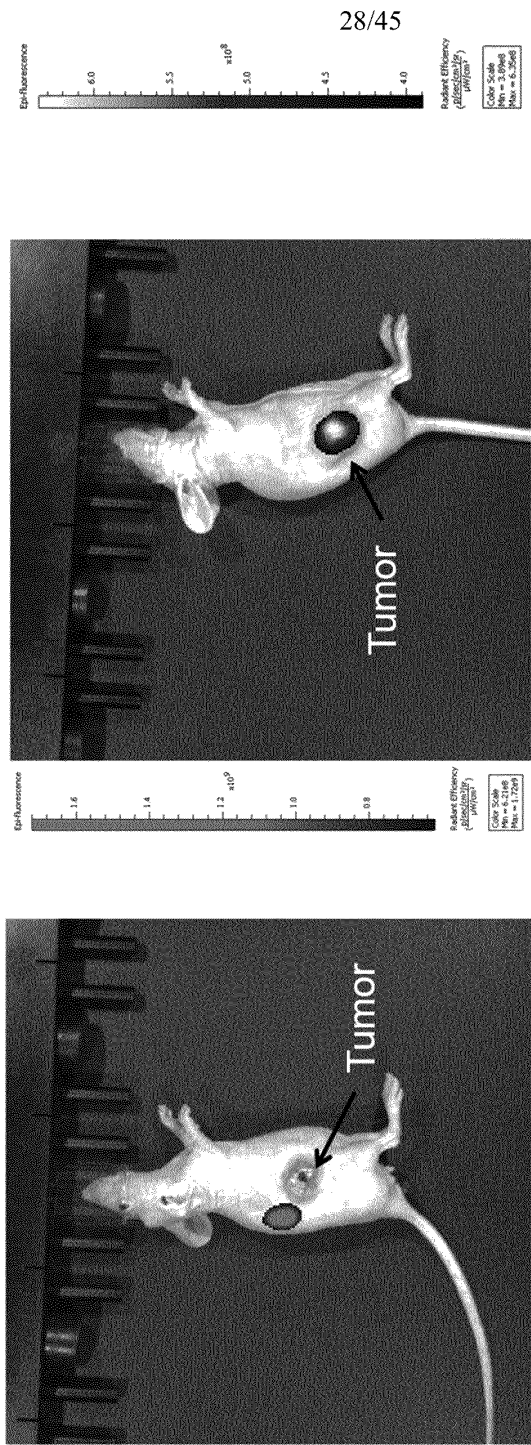


FIG. 29B



Representative data at 4h

FIG. 30

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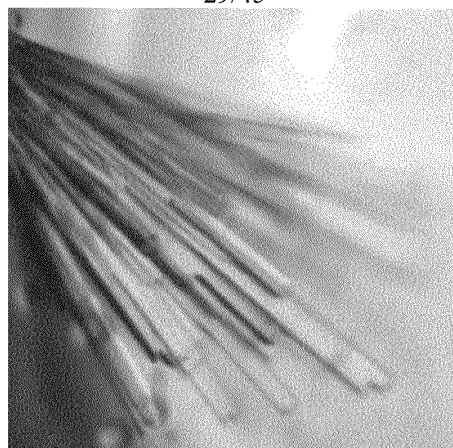


FIG. 31A

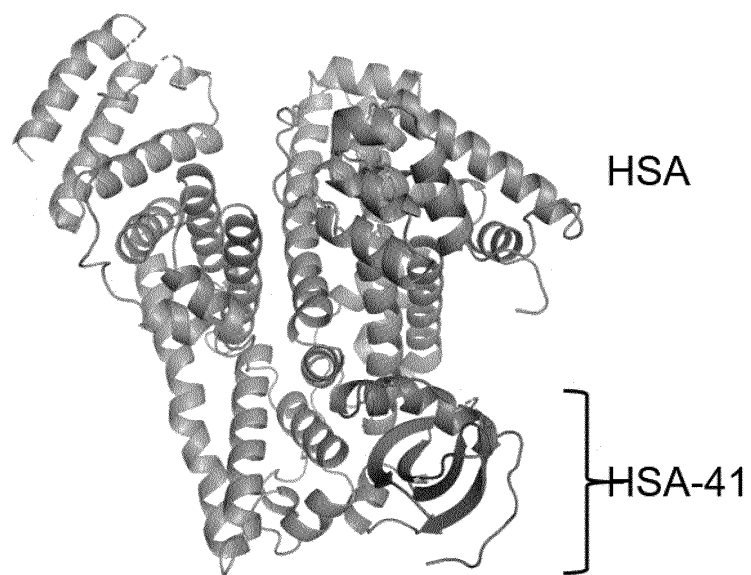


FIG. 31B

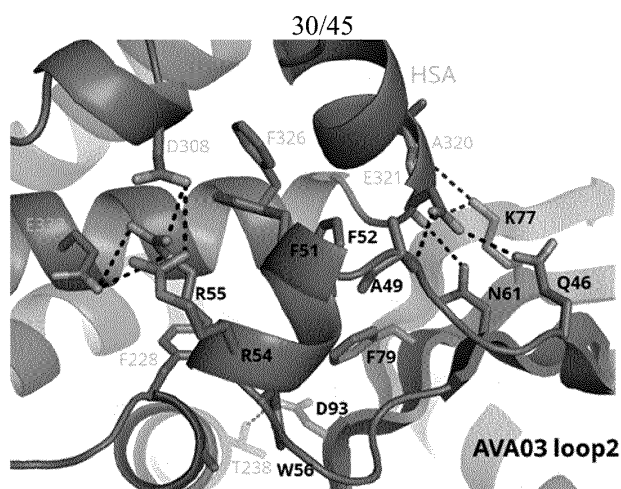


FIG. 31C

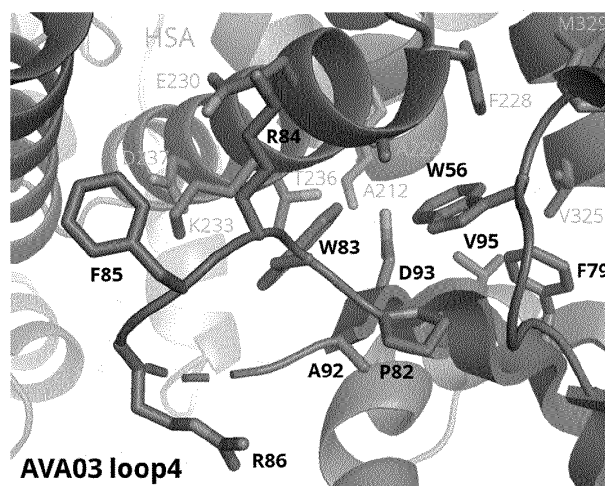


FIG. 31D

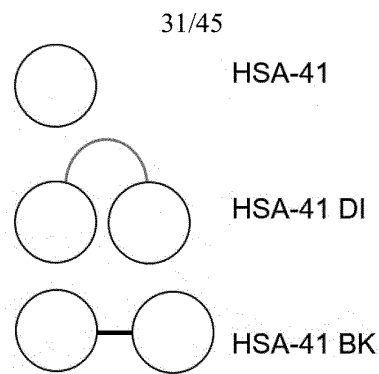


FIG. 32A

Affimer	ka (1/Ms)	kd (1/s)	KD (M)
HSA-41	1.22E+06	3.47E-03	2.84E-09
HSA-41 DI	4.77E+06	9.59E-04	2.01E-10
HSA-41 BK	7.74E+06	9.94E-04	1.28E-10

FIG. 32B

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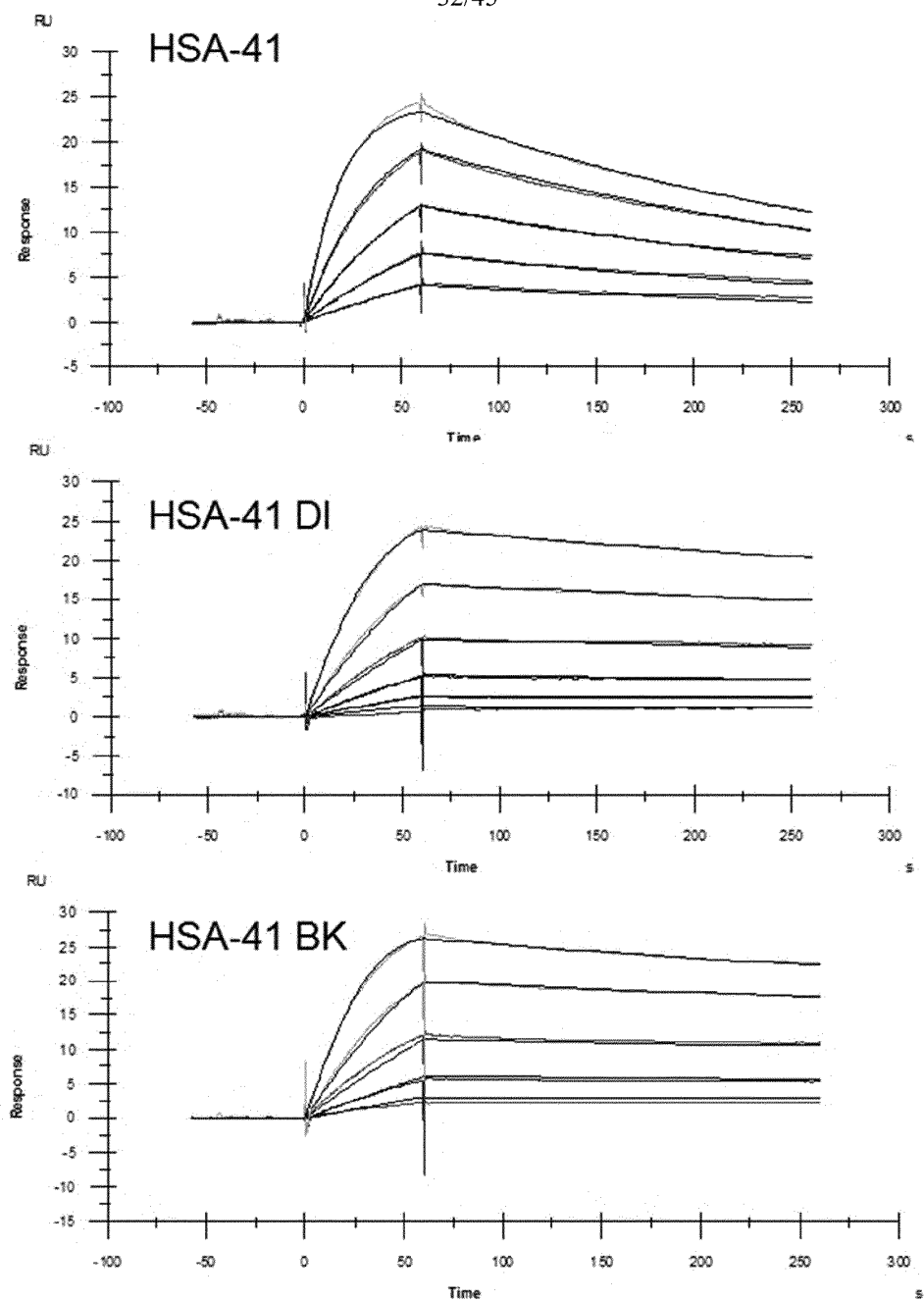


FIG. 32C

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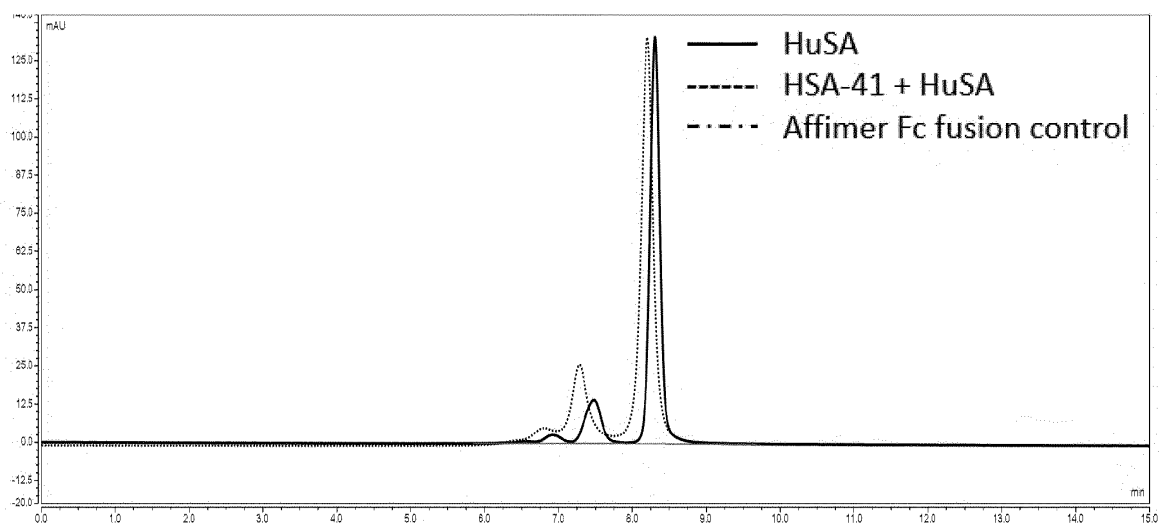


FIG. 33A

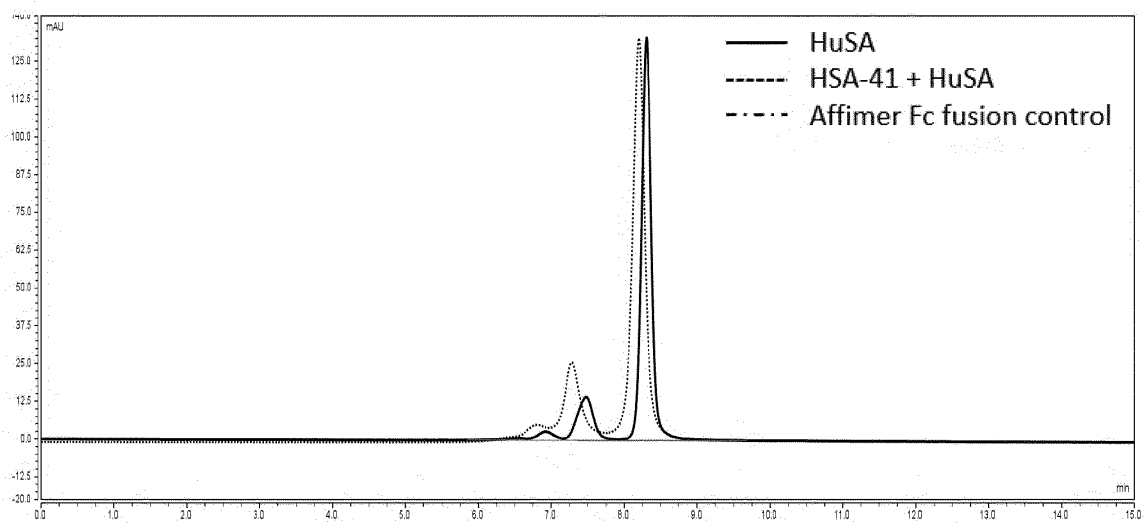


FIG. 33B

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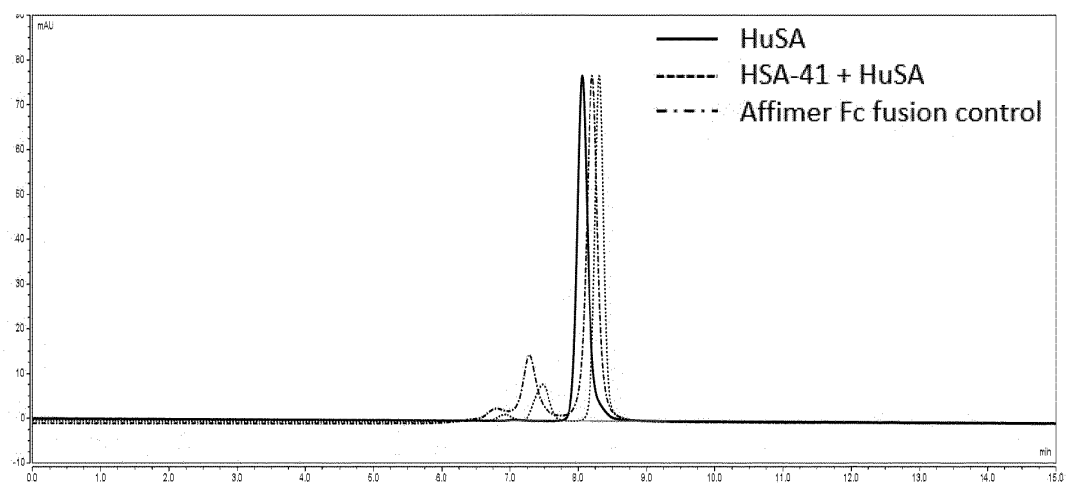
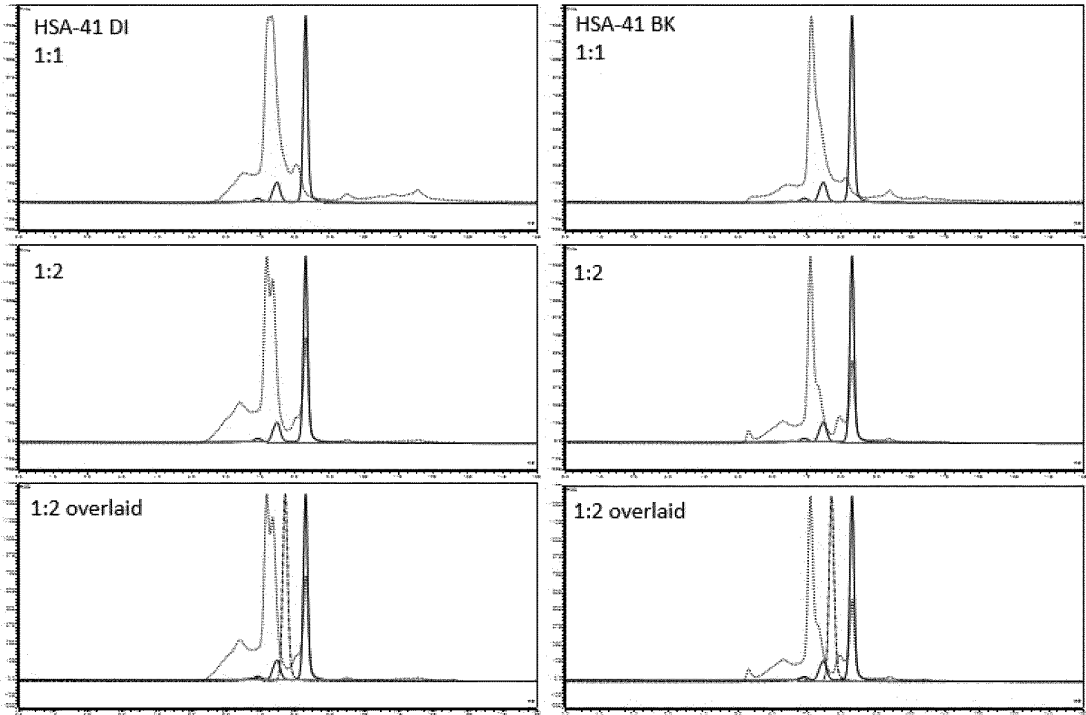


FIG. 33C

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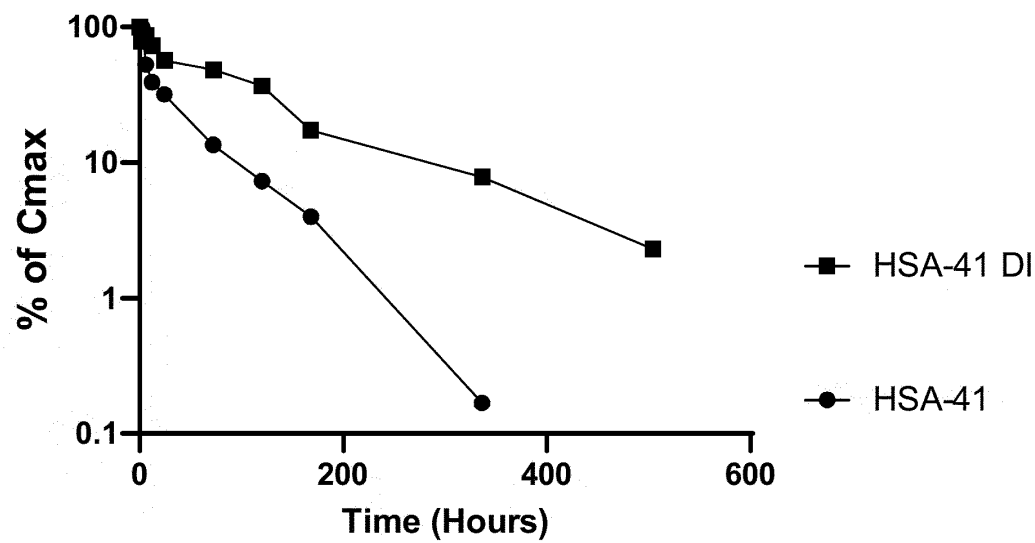
— HuSA
----- HSA-41 DI/BK + HuSA
- - - - mAb control

Sample	MW (kDa)
HSA-41 DI	29.9
HSA-41 DI + HuSA	96
HSA-41 DI + 2x HuSA	162
mAb control	150

Sample	MW (kDa)
HSA-41 BK	30.9
HSA-41 BK + HuSA	97
HSA-41 BK + 2x HuSA	163
mAb control	150

FIG. 34

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Affimer	Half-life (hours)
HSA-41 AH	71
HSA-41 DI	103

FIG. 35

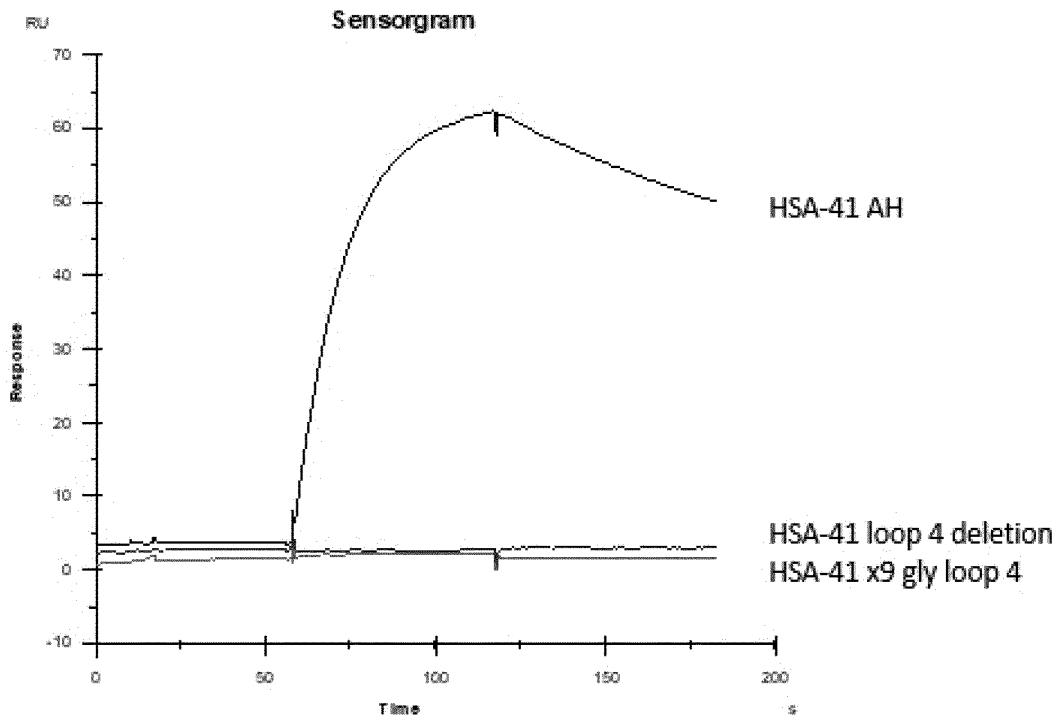


FIG. 36

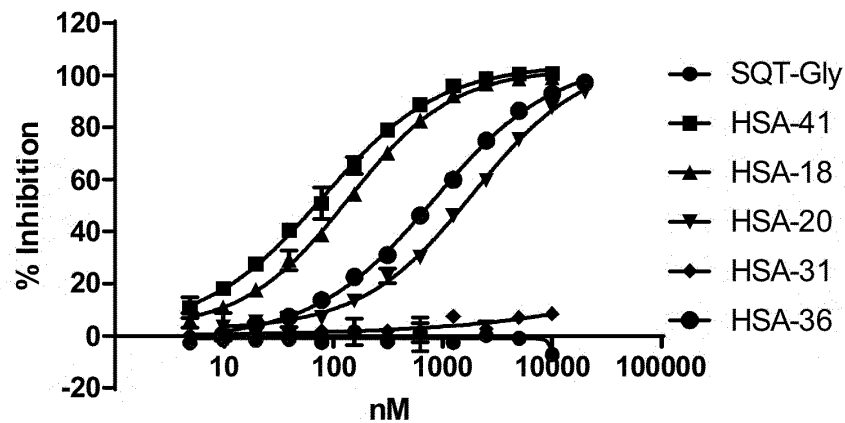


FIG. 37

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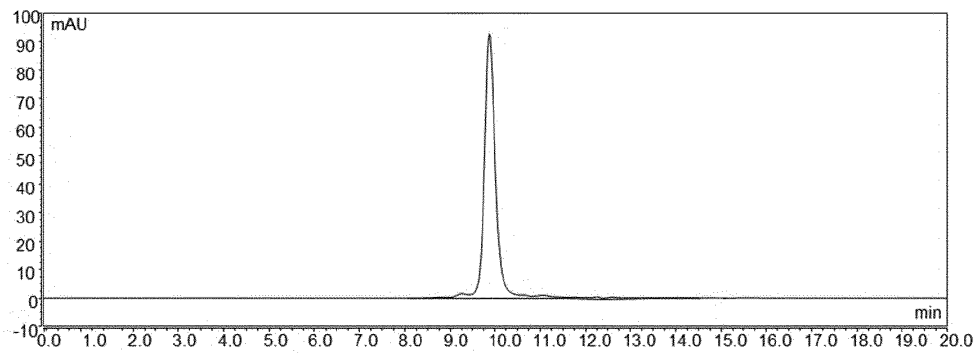


FIG. 38A

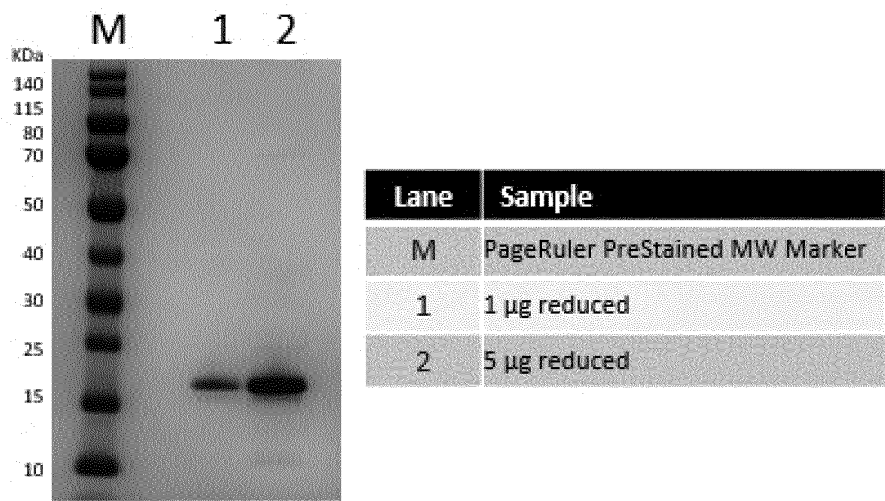
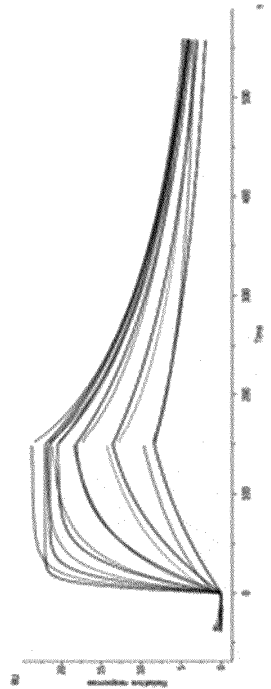
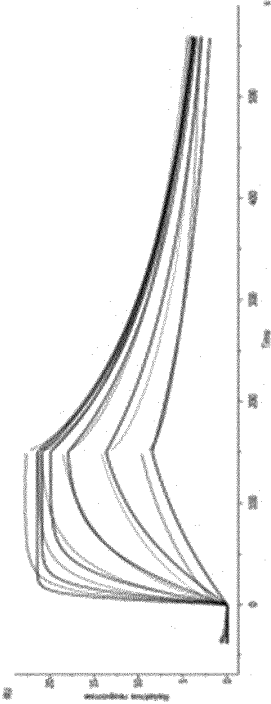


FIG. 38B

HSA-41 AH



HSA-41 CQ



Affimer	Kinetics Chi ² (RU ²)	k _a (1/Ms)	k _d (1/s)	KD (M)
HSA-41 CQ	4.88E-01	2.07E+06	6.63E-03	3.21E-09
HSA-41 AH	5.40E-01	1.69E+06	5.63E-03	3.34E-09

FIG. 39

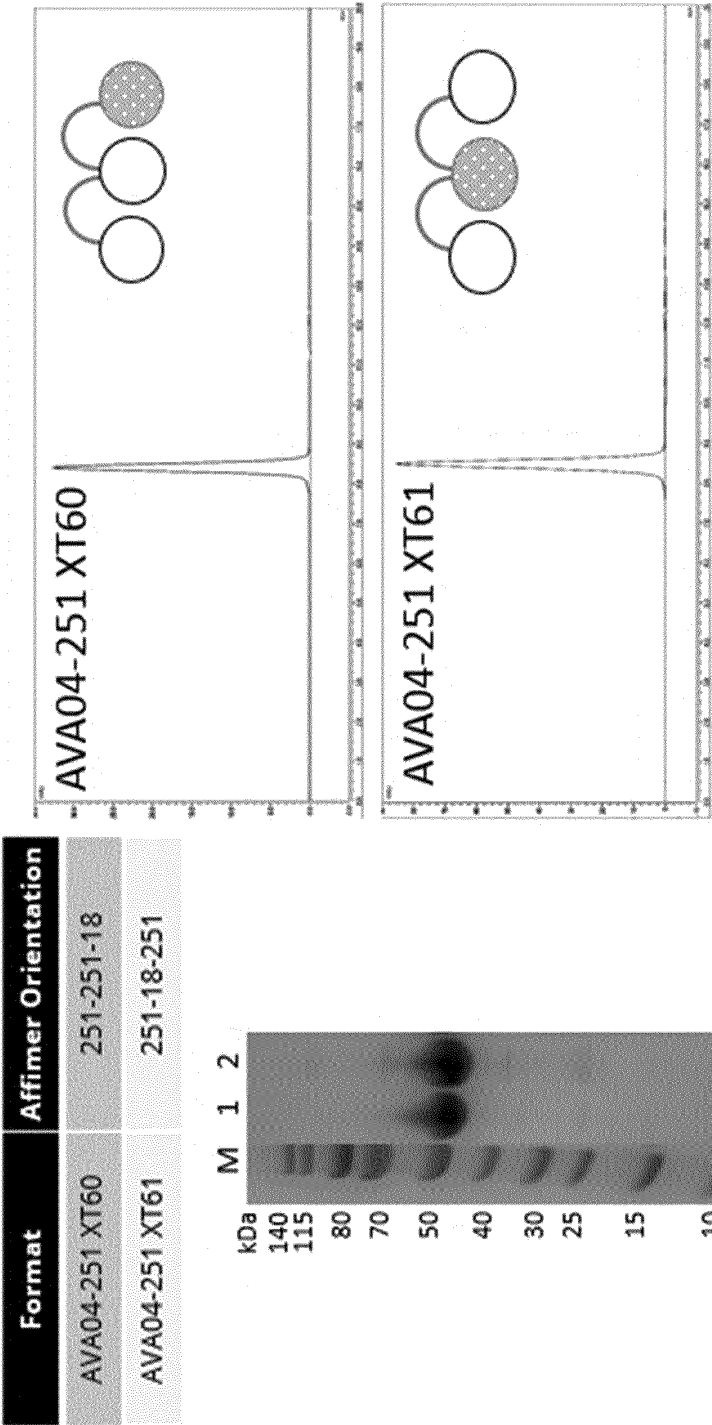
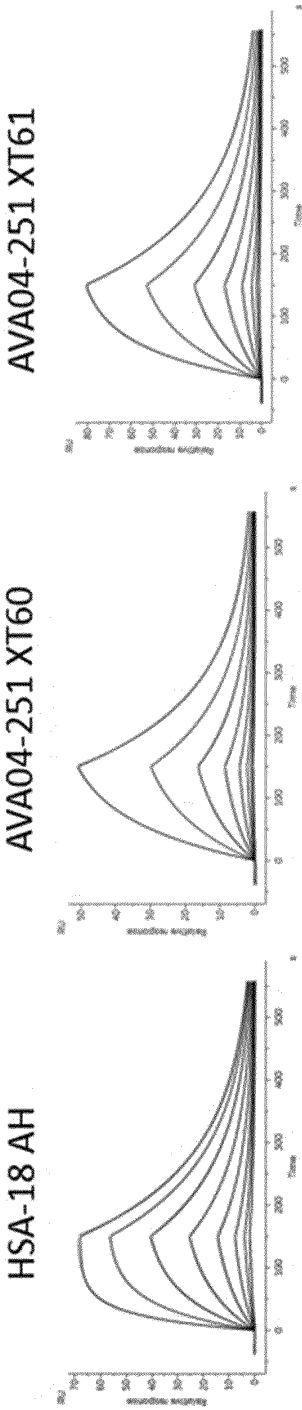


FIG. 40



Affimer	Format	Kinetics χ^2 (RU ²)	k_a (1/Ms)	k_d (1/s)	KD (M)
HSA-18 AH	monomer	1.12E-01	7.14E+04	7.80E-03	1.09E-07
AVA04-251 XT60	Trimer, 251-251-18	4.13E-02	1.28E+04	8.46E-03	6.61E-07
AVA04-251 XT61	Trimer, 251-18-251	1.29E-01	2.33E+04	7.58E-03	3.25E-07

FIG. 41A

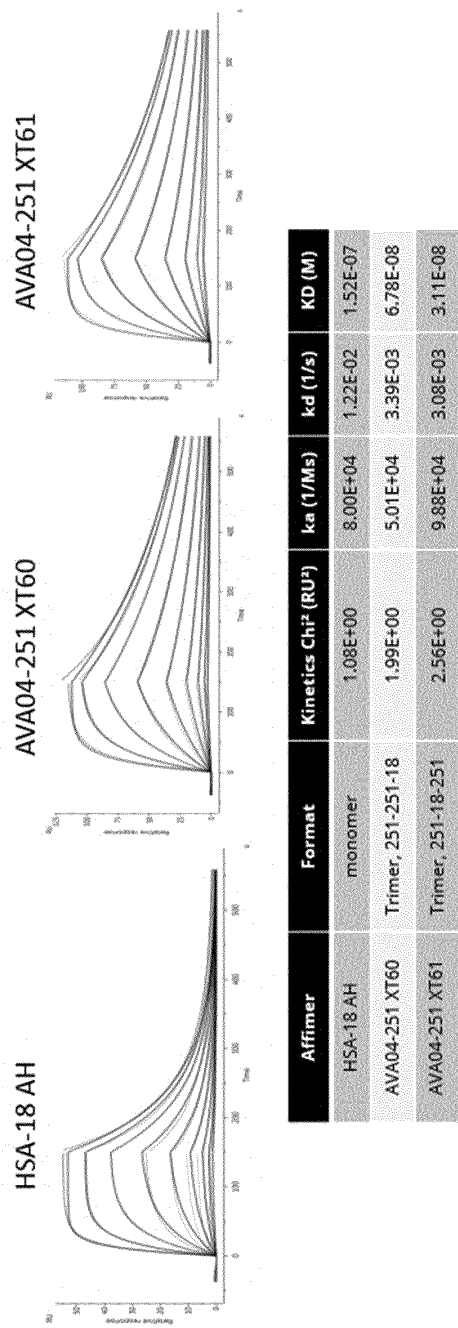


FIG. 41B

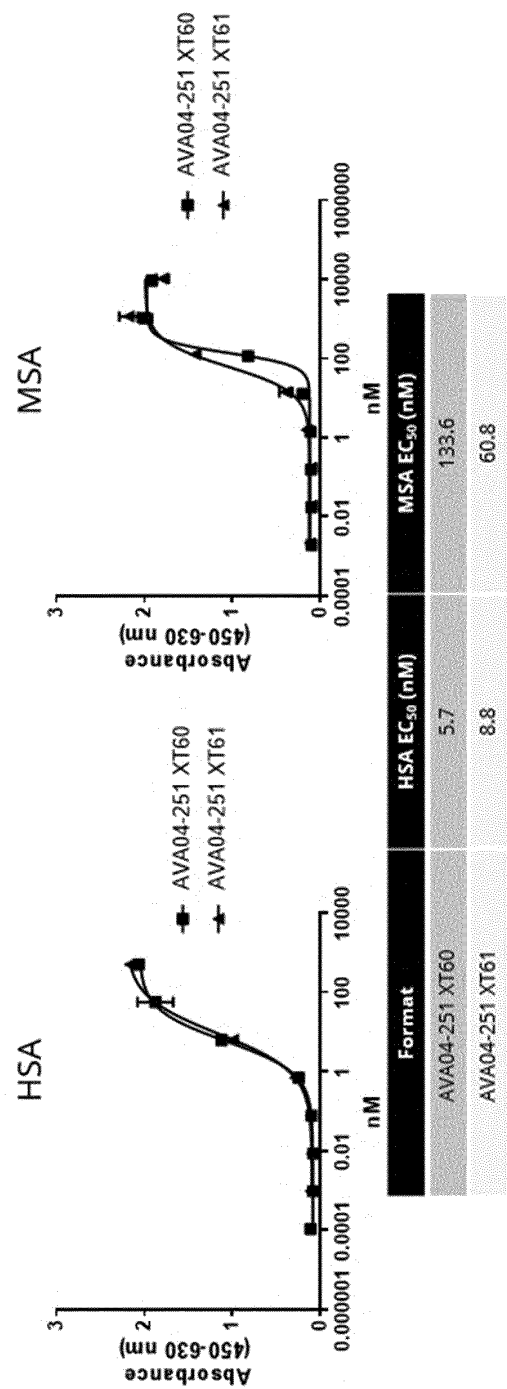


FIG. 42

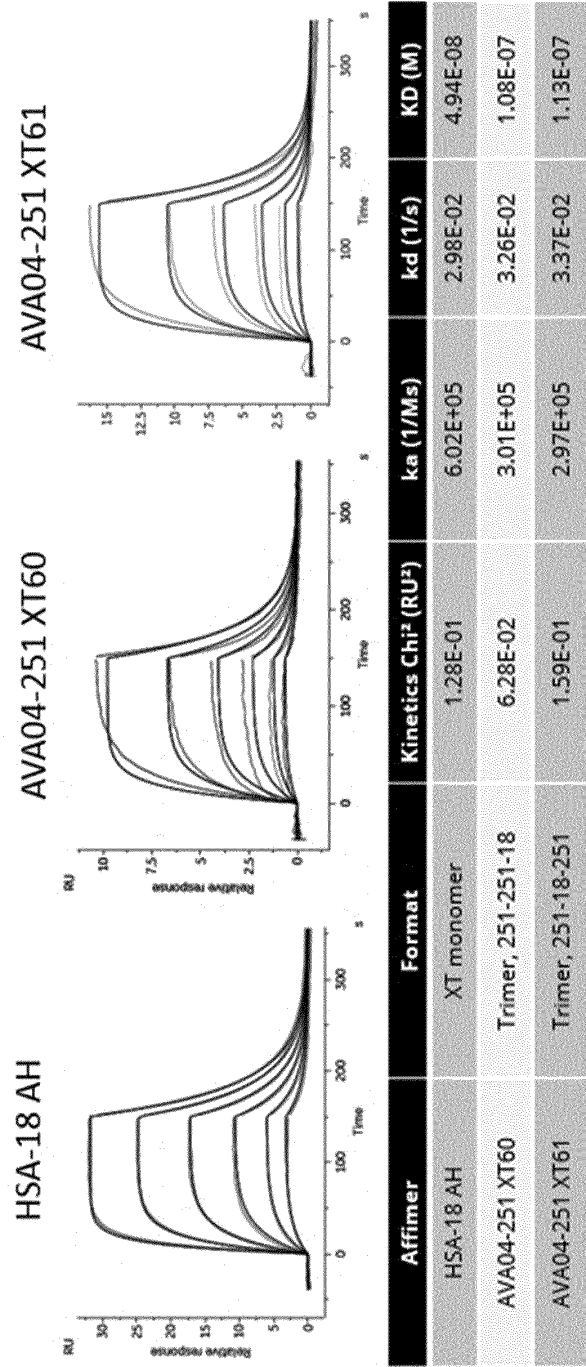


FIG. 43

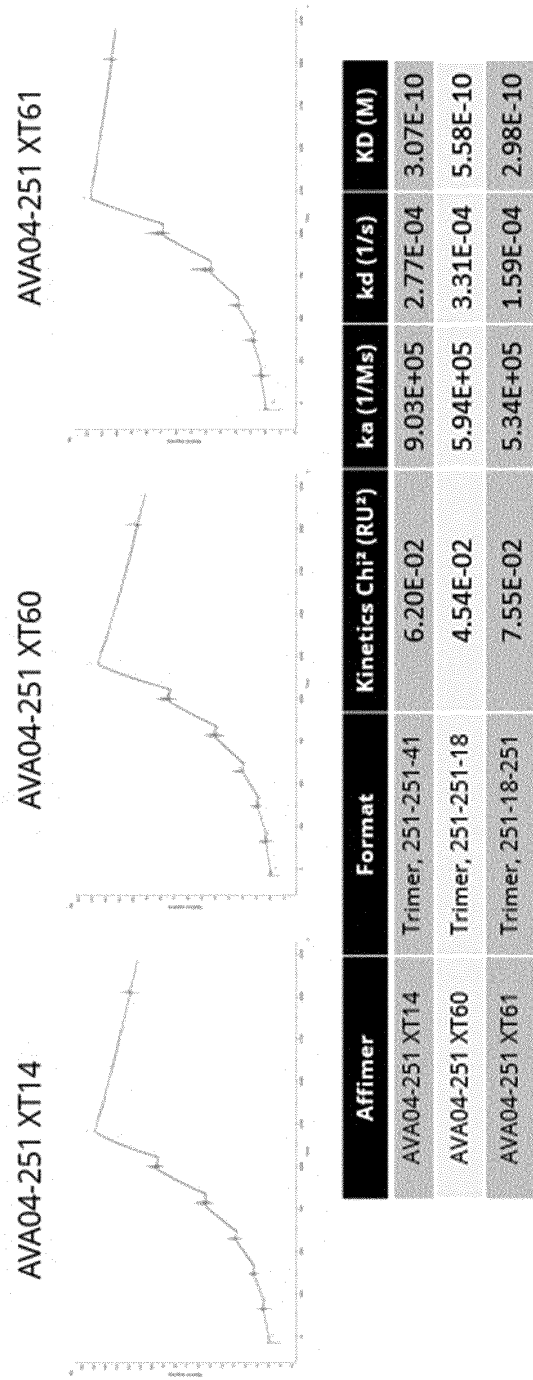


FIG. 44