



Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
SRP1848-A01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	T	R	Y	--	S	I	H	
SRP1848-A02	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	G	F	--	R	I	H	
SRP1848-A04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	D	Q	S	--	S	I	H	
SRP1848-A06	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	N	S	--	Y	I	H	
SRP1848-A07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	Y	H	--	S	I	H	
SRP1848-A08	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	S	N	I	R	K	H	--	S	I	H	
SRP1848-A09	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	K	Q	--	S	I	H	
SRP1848-A10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	K	Y	--	S	I	H	
SRP1848-B01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	N	Y	--	S	I	H	
SRP1848-B03	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	M	K	--	Y	I	H	
SRP1848-B04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	S	F	N	I	S	N	H	--	S	I	H	
SRP1848-B05	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	Y	--	Y	I	H	
SRP1848-B06	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	Y	--	Y	I	H	
SRP1848-B07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	R	F	--	Y	I	H	
SRP1848-B09	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	G	G	F	N	I	T	N	Y	--	Y	I	H	
SRP1848-B10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	T	T	T	K	--	S	I	H	
SRP1848-B11	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	N	N	--	S	I	H	
SRP1848-C01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	N	S	--	Y	I	H	
SRP1848-C03	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	V	Y	--	S	I	H	
SRP1848-C04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	H	Y	--	S	I	H	
SRP1848-C05	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	K	Y	--	S	I	H	
SRP1848-C07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	K	Y	--	S	I	H	
SRP1848-C10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	T	Y	--	Y	I	H	
SRP1848-D02	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	H	N	--	Y	I	H	
SRP1848-D03	E	V	Q	L	V	E	S	G	G	G	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	Y	F	--	S	I	H		
SRP1848-D04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	H	Y	--	S	I	H	
SRP1848-D05	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	I	S	--	Y	I	H	
SRP1848-D07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	K	Y	--	Y	I	H	
SRP1848-D09	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	Y	--	Y	I	H	
SRP1848-D10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	R	N	--	S	I	H	
SRP1848-E01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	T	N	K	--	Y	I	H	
SRP1848-E02	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	K	Y	--	S	I	H	
SRP1848-E03	E	V	Q	L	V	E	S	G	G	G	L	A	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	G	N	Y	--	Y	I	H	

FIG. 2

Column #	3839404142434445464748495051525354555657585960616263646566
SRP1848-A01	WVRQAPGKGGLEWVAGILPES-GGTSYADS
SRP1848-A02	WVRQAPGKGGLEWVAGIYPES-GATYYADS
SRP1848-A04	WVRQAPGKGGLEWVGVIYPVD-GTTDYADS
SRP1848-A06	WVRQAPGKGGLEWVGGITPID-GNTDYADS
SRP1848-A07	WVRQAPGKGGLEWVGGEIFPVD-GTTDYADS
SRP1848-A08	WVRQAPGKGGLEWVGSIYPND-GTTDYADS
SRP1848-A09	WVRQAPGKGGLEWVGSIYPND-GTTDYADS
SRP1848-A10	WARQAPGKGGLEWVGDIYPND-GTTDYADS
SRP1848-B01	WVRQAPGKGGLEWVGGEIYPVD-GITDYADS
SRP1848-B03	WVRQAPGKGGLEWVGGITPID-GMTDYADS
SRP1848-B04	WVRQAPGKGGLEWVGGEIYPVD-GITDYADS
SRP1848-B05	WVRQAPGKGGLEWVGGISPID-GYTDYADS
SRP1848-B06	WVRQAPGKGGLEWVGGITPID-GYTDYADS
SRP1848-B07	WVRQAPGKGGLEWVGGISPYD-GFTDYADS
SRP1848-B09	WVRQAPGKGGLEWVGGITPVD-GYTDYADR
SRP1848-B10	WVRQAPGKGGLEWVGGEIYPRD-GITDYADS
SRP1848-B11	WVRQAPGKGGLEWVGDISPID-GFTDYADS
SRP1848-C01	WVRQAPGKGGLEWVGGVTPND-GYTDYADS
SRP1848-C03	WVRQAPGKGGLEWVGGEIYPID-GNTDYADS
SRP1848-C04	WVRQAPGKGGLEWVGGEIYPGP-GNTDYADS
SRP1848-C05	WVRQAPGKGGLEWVGDIYPID-GINDYADS
SRP1848-C07	WVRQAPGKGGLEWVGDIYPID-GITDYADS
SRP1848-C10	WVRQAPGKGGLEWVGGISPID-GYTDYADS
SRP1848-D02	WVRQAPGKGGLEWVGGITPQD-GYTDYADS
SRP1848-D03	WVRQAPGKGGLEWVGDIYPND-GSTDYADS
SRP1848-D04	WVRQAPGKGGLEWVGGEIYPRD-GITDYADS
SRP1848-D05	WVRQAPGKGGLEWVGGISPID-GYTDYADS
SRP1848-D07	WVRQAPGKGGLEWVGGISPND-GYTDYADS
SRP1848-D09	WVRQAPGKGGLEWVGGISPND-GYTDYADS
SRP1848-D10	WVRQAPGKGGLEWVGWISPND-GTTDYADS
SRP1848-E01	WVRQAPGKGGLEWVGGITPFD-GFTDYADS
SRP1848-E02	WVRQAPGKGGLEWVGGEIYPND-GNTDYADS
SRP1848-E03	WVRQAPGKGGLEWVGGITPRD-GFTDYADS

Column #	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SRP1848-A01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A02	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A04	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A06	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A07	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	H	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A08	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A09	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	V	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-A10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B03	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B04	M	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	S	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B05	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B07	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B09	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-B11	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	T	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C03	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C04	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C05	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C07	M	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-C10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D02	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	R	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D03	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	E	T	A	V	Y	Y	C	A
SRP1848-D04	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	S	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D05	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D07	V	K	G	R	F	A	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D09	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-D10	V	K	G	R	F	T	I	S	A	D	G	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-E01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-E02	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-E03	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	V	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A

FIG. 2 (Cont.)

Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
SRP1848-A01	R	H	I	Y	P	W	D	W	F	-	S	N	Y	V	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-A02	R	H	L	Y	V	W	D	W	V	-	L	D	H	V	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-A04	R	G	A	W	S	W	R	S	G	-	Y	G	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-A06	R	G	A	W	S	W	R	S	G	-	Y	G	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-A07	R	G	F	W	A	W	R	S	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-A08	R	G	S	W	F	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-A09	R	G	S	W	F	W	R	S	G	-	Y	G	Y	F	L	E	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-A10	R	G	S	W	S	W	P	S	G	-	H	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B01	R	G	F	W	S	W	P	S	G	-	Y	S	Y	F	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-B03	R	G	S	W	S	W	P	S	G	-	Y	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B04	R	G	R	Y	S	W	R	A	G	-	Y	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B05	R	G	S	W	F	W	Q	S	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B06	R	G	F	W	S	W	P	S	G	-	Y	G	Y	Q	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B07	R	G	S	W	S	W	P	A	G	-	Y	G	Y	Q	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B09	R	G	A	W	S	W	R	S	G	-	Y	G	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B10	R	G	G	W	H	W	R	S	G	-	Y	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-B11	R	G	S	W	S	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-C01	R	G	S	W	F	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	A	L	V	T	V	S	S	
SRP1848-C03	R	G	S	W	A	W	R	S	G	-	Y	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-C04	R	G	S	L	S	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-C05	R	G	S	W	S	W	K	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-C07	R	G	S	W	S	W	P	A	G	-	Y	G	Y	Q	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-C10	R	G	S	W	S	W	P	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D02	R	G	A	W	S	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D03	R	G	H	W	S	W	P	S	G	-	Y	W	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D04	R	G	Y	W	F	W	R	S	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D05	R	G	S	W	S	W	R	A	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D07	R	G	F	W	A	W	R	S	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D09	R	G	S	W	S	W	R	H	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-D10	R	G	A	W	S	W	R	S	G	-	Y	G	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-E01	R	G	S	W	S	W	P	A	G	-	Y	G	Y	Q	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-E02	R	G	S	W	S	W	R	S	G	-	Y	G	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-E03	R	G	S	W	S	W	P	A	G	-	H	S	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	

FIG. 2 (Cont.)

Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
SRP1848-E05	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	V	S	C	A	A	S	G	F	N	I	G	V	Y	-	-	Y	I	H
SRP1848-E06	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	S	G	S	L	R	L	S	C	A	A	S	G	F	N	I	N	R	Y	-	-	Y	I	H
SRP1848-E07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	K	S	-	-	S	I	H
SRP1848-F01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	T	Y	-	-	S	I	H
SRP1848-F02	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	T	Y	-	-	S	I	H
SRP1848-F04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	Y	-	-	S	I	H
SRP1848-F05	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	K	S	-	-	S	I	H
SRP1848-F06	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	L	S	-	-	Y	I	H
SRP1848-F07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	H	-	-	S	I	H
SRP1848-F08	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	G	G	F	N	I	S	N	H	-	-	S	I	H
SRP1848-F09	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	H	-	-	Y	I	H
SRP1848-F10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	N	-	-	S	I	H
SRP1848-F11	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	N	N	-	-	Y	I	H
SRP1848-G01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	R	H	-	-	S	I	H
SRP1848-G03	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	T	Y	-	-	Y	I	H
SRP1848-H01	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	T	Q	-	-	S	I	H
SRP1848-G04	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	H	S	T	-	-	D	I	H
SRP1848-G06	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	S	T	-	-	D	I	H
SRP1848-G07	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	H	S	T	-	-	D	I	H
SRP1848-G09	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	G	T	-	-	D	I	H
SRP1848-G10	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	R	S	T	-	-	D	I	H
SRP1848-G11	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	N	I	S	S	T	-	-	D	I	H

FIG. 3

Column #	3839404142434445464748495051525354555657585960616263646566
SRP1848-E05	WVRQAPGKGLEWVGGITPND-GYTDYADS
SRP1848-E06	WVRQAPGKGLEWVGGITPND-GYTDYADS
SRP1848-E07	WVRQAPGKGLEWVGEIFPYD-GSTDYADN
SRP1848-F01	WVRQAPGKGLEWVGSIFPND-GTTDYADS
SRP1848-F02	WVRQAPGKGLEWVGSIFPND-GTTDYADS
SRP1848-F04	WVRQAPGKGLEWVGEIYPID-GITDYADS
SRP1848-F05	WVRQAPGKGLEWVGEIYPND-GSTDYADS
SRP1848-F06	WVRQAPGKGLEWVGGISPID-GNTDYADS
SRP1848-F07	WVRQAPGKGLEWVGEIYPND-GITDYADS
SRP1848-F08	WVRQAPGKGVEWVGEIYPVD-GITDYADS
SRP1848-F09	WVRQAPGKGLEWVGGISPLD-GYTDYADS
SRP1848-F10	WVRQAPGKGLEWVGSIFPND-GYTDYADS
SRP1848-F11	WVRQAPGKGLEWVGGITPID-GNTDYADS
SRP1848-G01	WVRQAPGKGLEWVGWIAPND-GSTDYADS
SRP1848-G03	WVRQAPGKGLEWVGGITPSD-GFTDYADS
SRP1848-H01	WVRQAPGKGLEWIGDIFPID-GITDYADS
SRP1848-G04	WVRQAPGKGLEWVAYITPAG-GATFYADS
SRP1848-G06	WVRQAPGKGLEWVAYITPAG-GATYYADN
SRP1848-G07	WVRQAPGKGLEWVAYITPAG-GATWYADS
SRP1848-G09	WVRQAPGKGLEWVAYITPAG-GATFYADS
SRP1848-G10	WVRQAPGKGLEWVAYITPAG-GATYYADS
SRP1848-G11	WVRQAPGKGLEWVAYITPAG-GATWYADS

FIG. FIG. 3 (Cont.)

Column #	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SRP1848-E05	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-E06	V	E	G	R	F	T	T	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-E07	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F02	V	K	G	R	L	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F04	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F05	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F06	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F07	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	S	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F08	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	R	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F09	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-F11	V	K	G	R	F	T	I	S	A	D	T	S	M	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G03	V	K	G	R	S	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-H01	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G04	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G06	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G07	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G09	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G10	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A
SRP1848-G11	V	K	G	R	F	T	I	S	A	D	T	S	K	N	T	A	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A

FIG. 3 (Cont.)

Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
SRP1848-E05	R	G	F	W	A	W	R	S	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-E06	R	G	T	W	S	W	P	S	G	-	H	S	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-E07	R	G	A	W	S	W	R	S	G	-	Y	G	Y	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F01	R	G	S	W	A	W	R	A	G	-	Y	S	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F02	R	G	S	W	S	W	Q	A	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F04	R	G	S	W	F	W	R	S	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F05	R	G	S	W	A	W	R	S	G	-	Y	S	Y	F	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F06	R	G	F	W	A	W	R	S	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F07	R	G	S	W	D	W	R	S	G	-	Y	S	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F08	R	G	S	W	Y	W	Q	S	G	-	Y	S	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F09	R	G	A	W	S	W	R	S	G	-	Y	G	Y	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F10	R	G	S	W	F	W	R	S	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-F11	R	G	S	W	Y	W	R	A	G	-	Y	G	Y	Y	L	D	Y	W	G	Q	G	A	L	V	T	V	S	S	
SRP1848-G01	R	G	S	W	A	W	R	S	G	-	Y	S	Y	F	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-G03	R	G	S	W	S	W	P	S	G	-	H	G	Y	F	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-H01	R	G	S	W	S	W	P	S	G	-	M	D	Y	Y	L	D	Y	W	G	Q	G	T	L	V	T	V	S	S	
SRP1848-G04	R	Y	P	Y	W	F	A	G	-	-	-	-	-	-	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-G06	R	Q	P	Y	W	F	A	G	-	-	-	-	-	-	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-G07	R	Y	P	F	W	F	A	G	-	-	-	-	-	-	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-G09	R	H	E	Y	W	F	S	G	-	-	-	-	-	-	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-G10	R	Y	P	Y	W	F	A	G	-	-	-	-	-	-	Y	I	D	Y	W	G	Q	G	T	L	V	T	V	S	S
SRP1848-G11	R	Y	P	Y	W	F	S	G	-	-	-	-	-	-	Y	M	D	Y	W	G	Q	G	T	L	V	T	V	S	S

FIG. 3 (Cont.)

SRP2060-E10	EVQLLESGGGLVQPGGSLRLS	CAFS	GFSLST	TFGM	GVGWVRQAPGKGLEWV	SH	WMDD--DKYYHPA
SRP2060-E05	EVQLLESGGGLVQPGGSLRLS	CAFS	GFSLST	TFGM	GVGWVRQAPGKGLEWV	SH	WMDD--DKYYHPA
SRP2060-B01	EVQLLESGGGLVQPGGSLRLS	CALS	GFSLST	TFGM	GVGWVRQATGKGLEWV	SH	WMDD--DKYYHPA
SRP2060-A06	EVQLLESGGGLVQPGGSLRLS	CAFS	GFSLST	TFGM	GVGWVRQAPGKGLEWV	GH	WMDD--DKYYHPA
SRP2060-E10	TKGRFTISKDNSKNTVYLQ	MNSLRAEDTAVYYCGR	NHFP	HY	YGSSHWYFNV	WGQ	TTVTVSS
SRP2060-E05	LKGRFTVSKDNSKNTVYLQ	MNSLRAEDTAVYYCGR	NHFP	HY	YGSSHWYFNV	WGQ	TTVTVSS
SRP2060-B01	LKGRFTISKDNSKNTVHLQ	MNSLRAEDTAVYYCGR	NHFP	HY	YGSSHWYFNV	WGQ	TTVTVSS
SRP2060-A06	LKGRFTISKDNSKNTVYLQ	MNSLRAEDTAVYYCGR	NHFP	HY	YGSSHWYFNV	WGQ	TTVTVSS

FIG. 4

Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
TRASTUZUMAB	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	R	A	S	Q	D	V	N	T	A	V	A	W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	S	A	S	F	L	Y	S	G	V	P
H6D1-LC4	E	I	V	M	T	Q	S	P	A	T	L	S	L	S	P	G	E	R	A	T	L	S	C	K	A	S	Q	D	I	N	S	Y	L	S	W	Y	Q	Q	K	P	G	Q	A	P	R	L	L	I	Y	R	A	N	R	L	V	D	G	I	P
H6D1-LC5	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T	I	T	C	K	A	S	Q	D	I	N	S	Y	L	S	W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	R	A	N	R	L	V	D	G	V	P

Column #	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
TRASTUZUMAB	S	R	F	S	G	S	R	S	G	T	D	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T	Y	Y	C	Q	Q	H	E	T	T	T	P	P	T	F	G	Q	G	T	K	V	E	I	K
H6D1-LC4	A	R	F	S	G	S	G	S	G	T	D	Y	T	L	T	I	S	S	L	E	P	E	D	F	A	V	Y	Y	C	L	Q	T	Y	D	E	F	F	P	Y	T	F	G	G	T	K	V	E	I	K
H6D1-LC5	S	R	F	S	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P	D	D	F	A	T	Y	Y	C	L	Q	T	Y	D	E	F	F	P	Y	T	F	G	G	T	K	V	E	I	K

FIG. 5

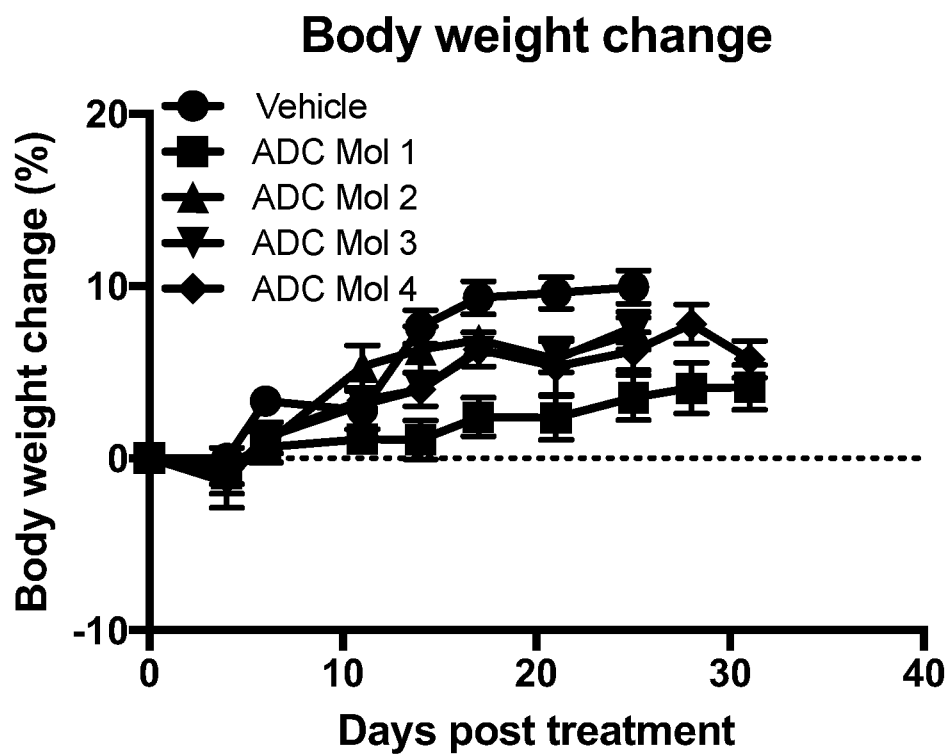


FIG. 6

Tumor growth curves

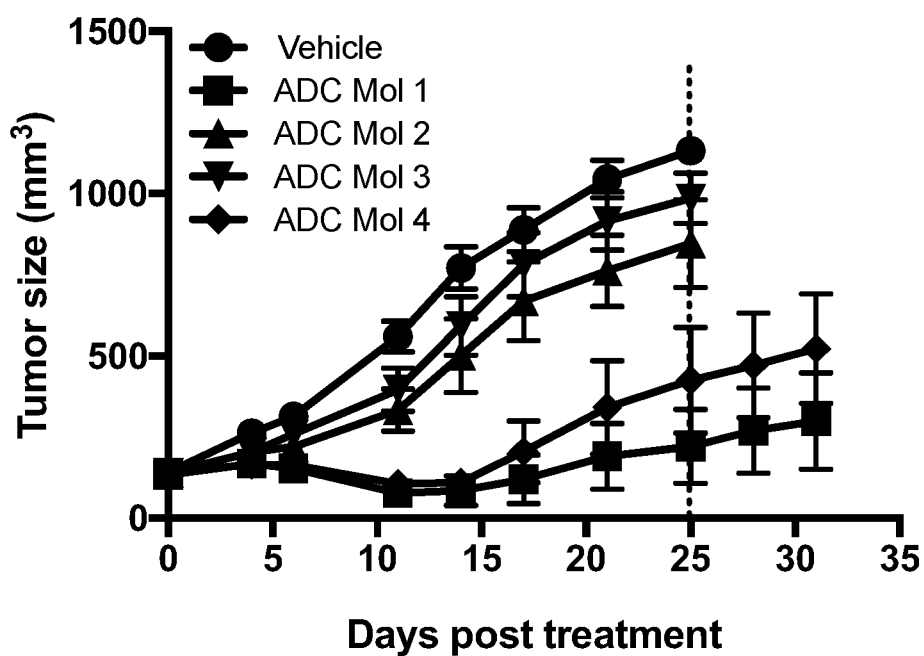


FIG. 7A

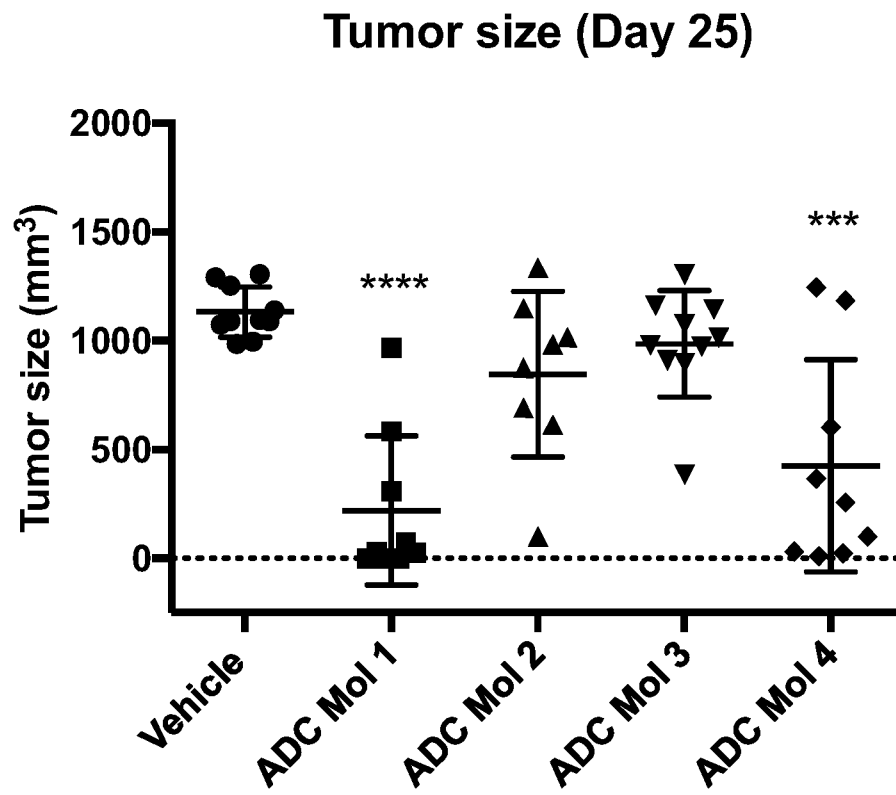


FIG. 7B

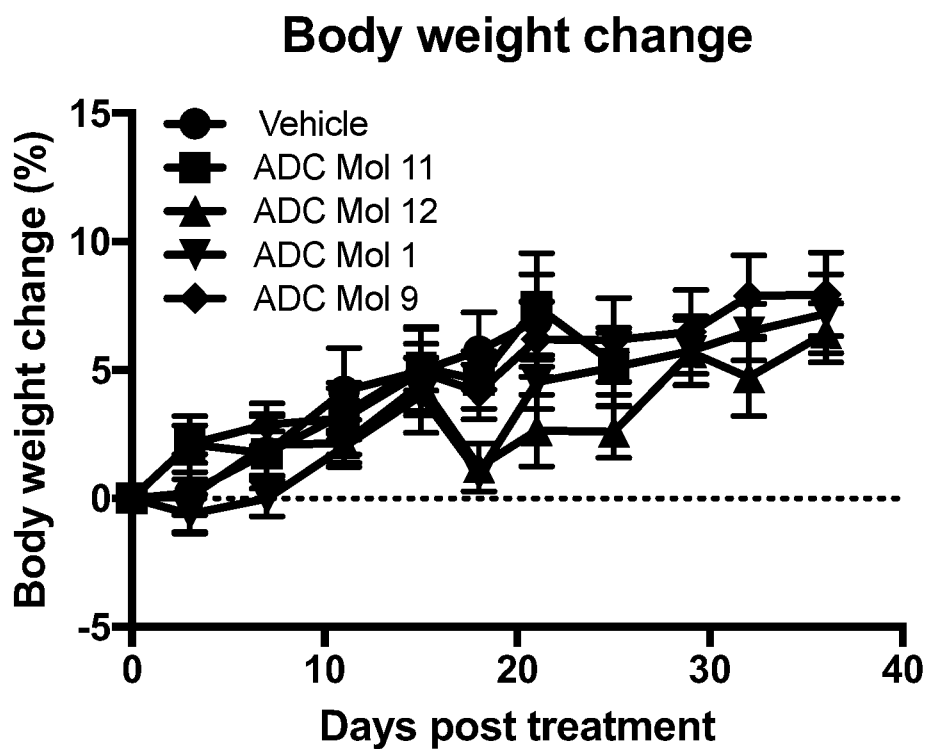


FIG. 9

Tumor growth curves

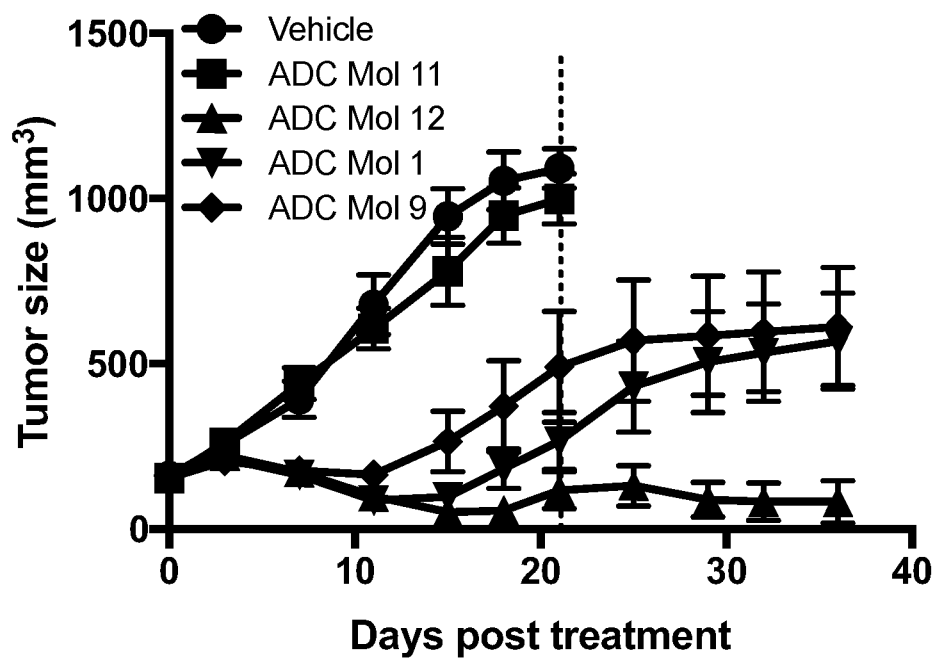


FIG. 10A

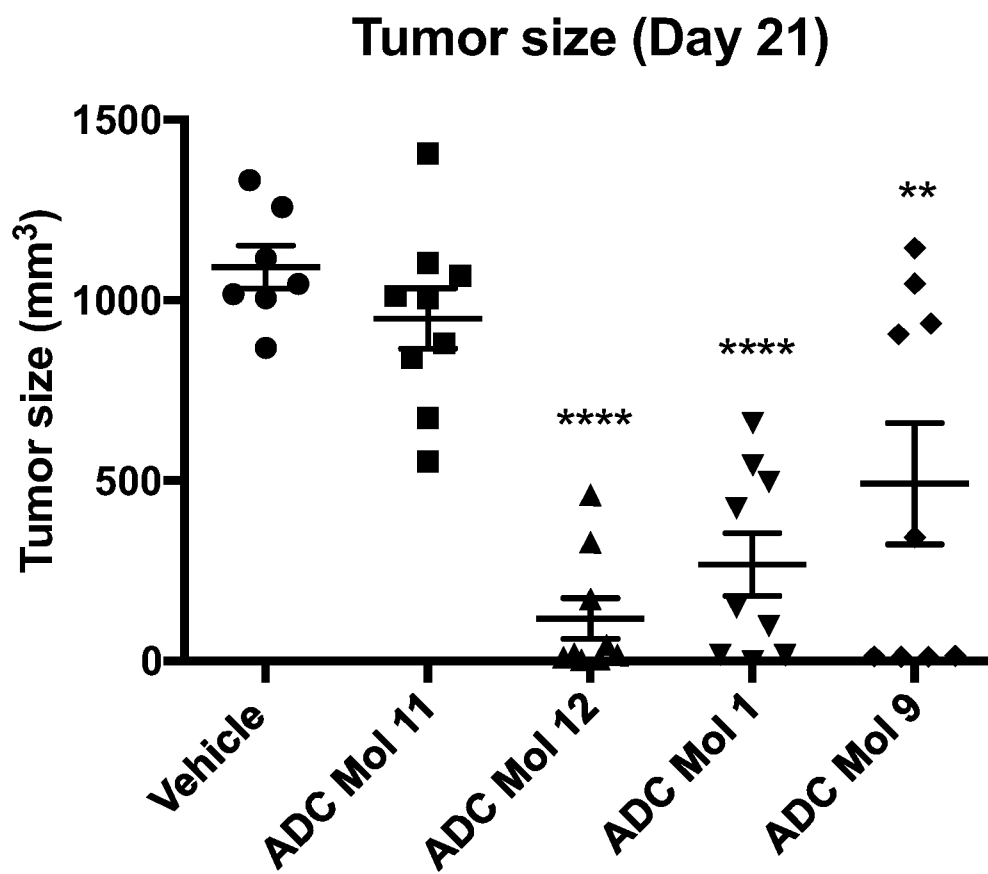


FIG. 10B

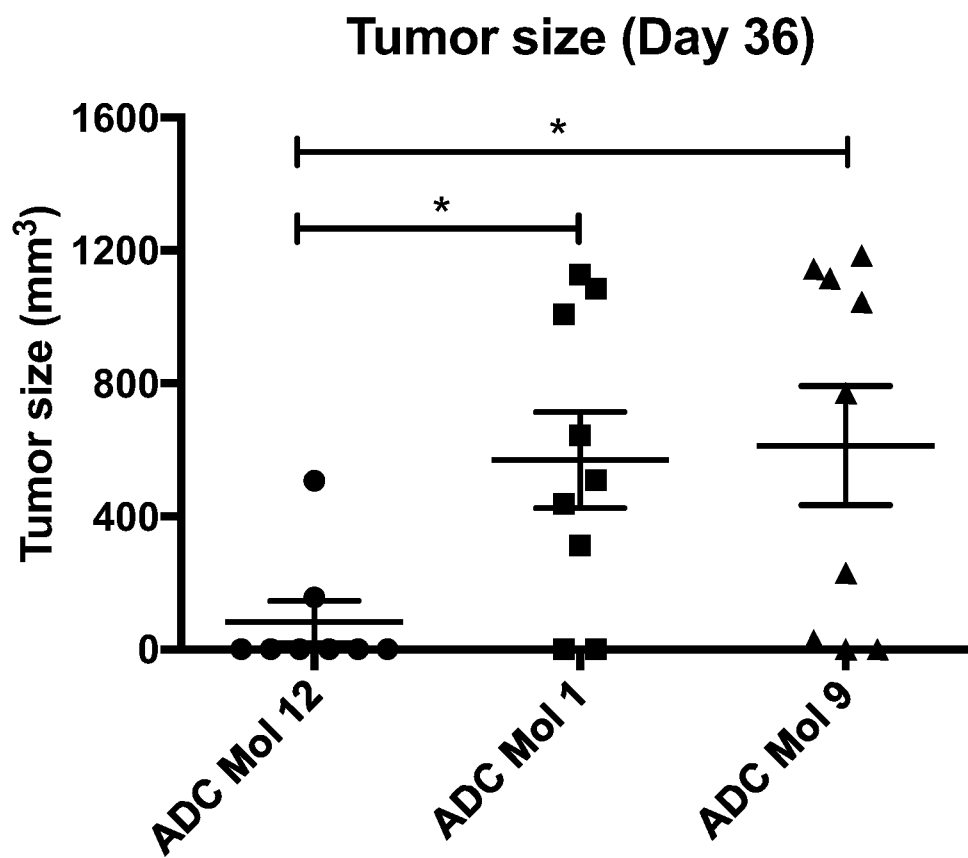


FIG. 11

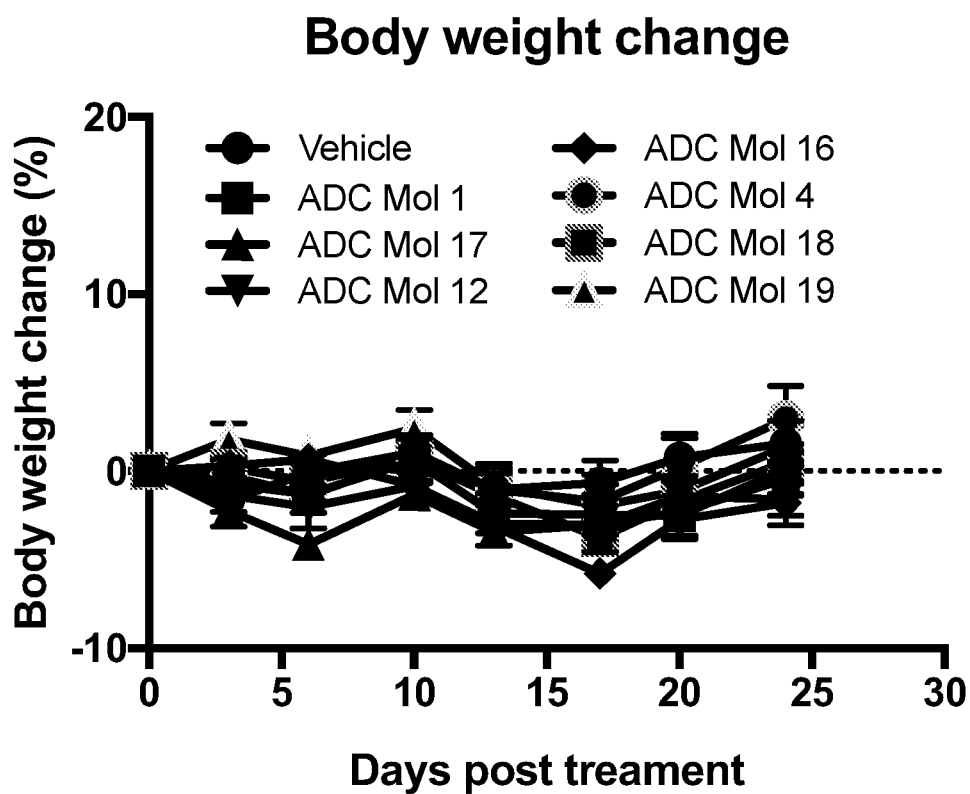


FIG. 12

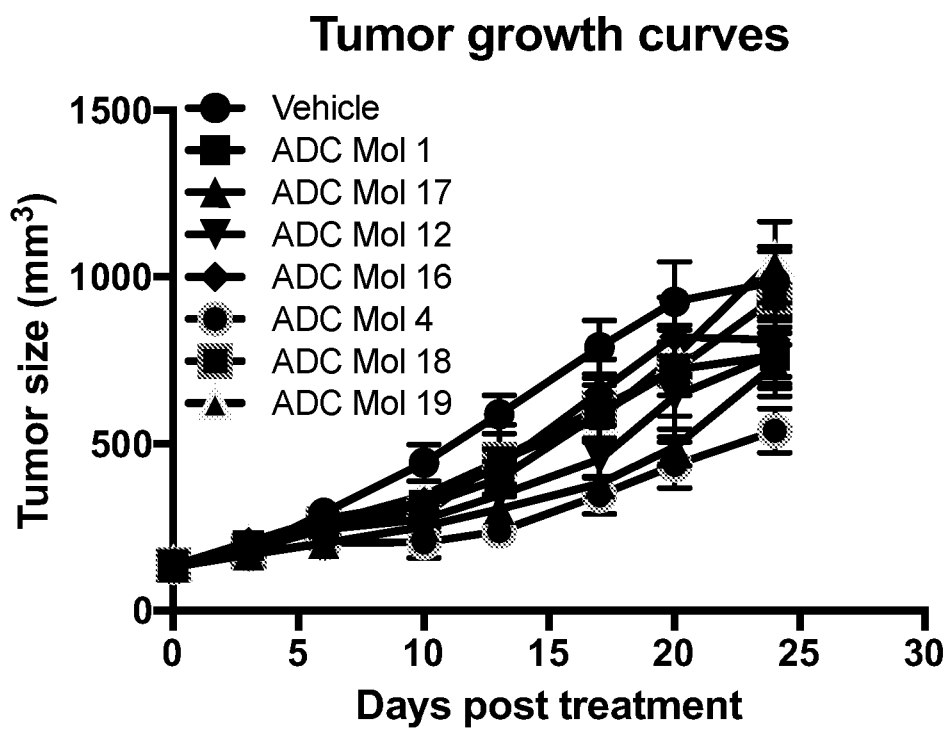


FIG. 13A

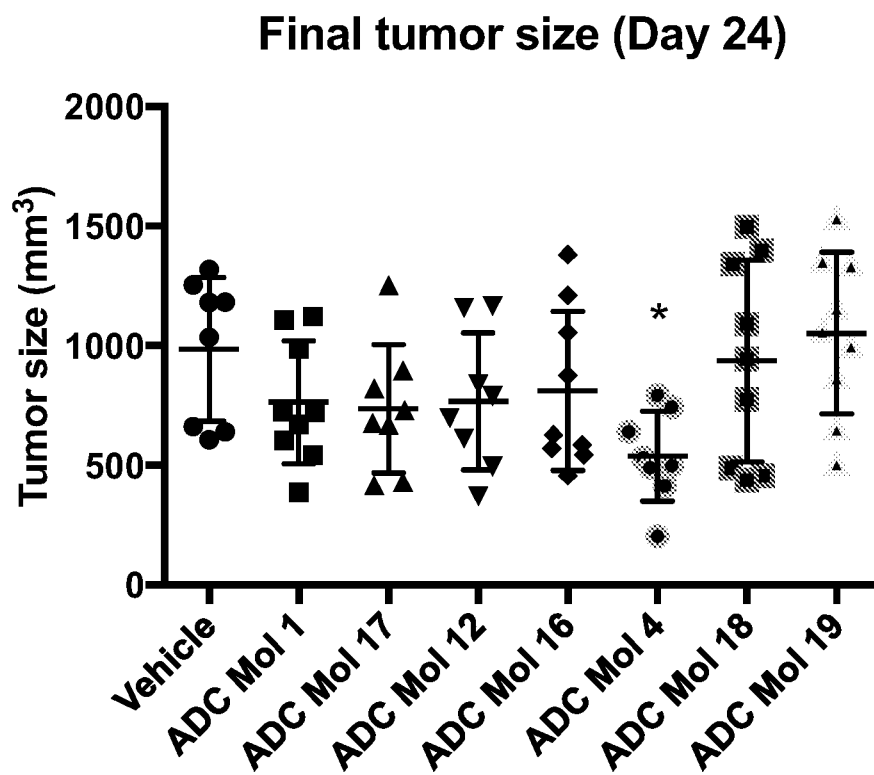


FIG. 13B

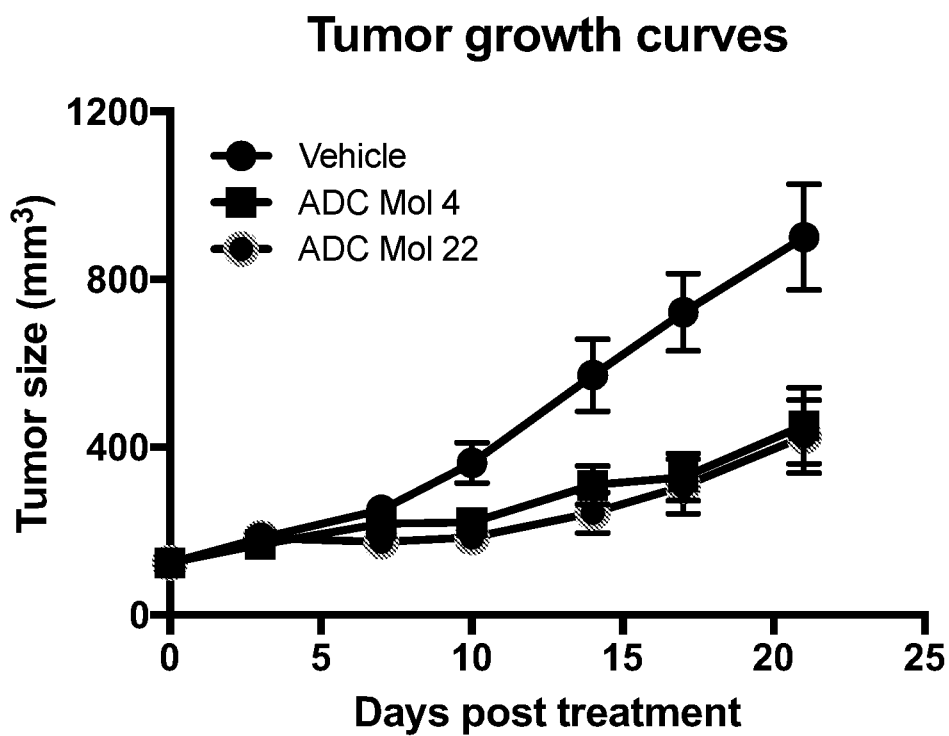


FIG. 14A

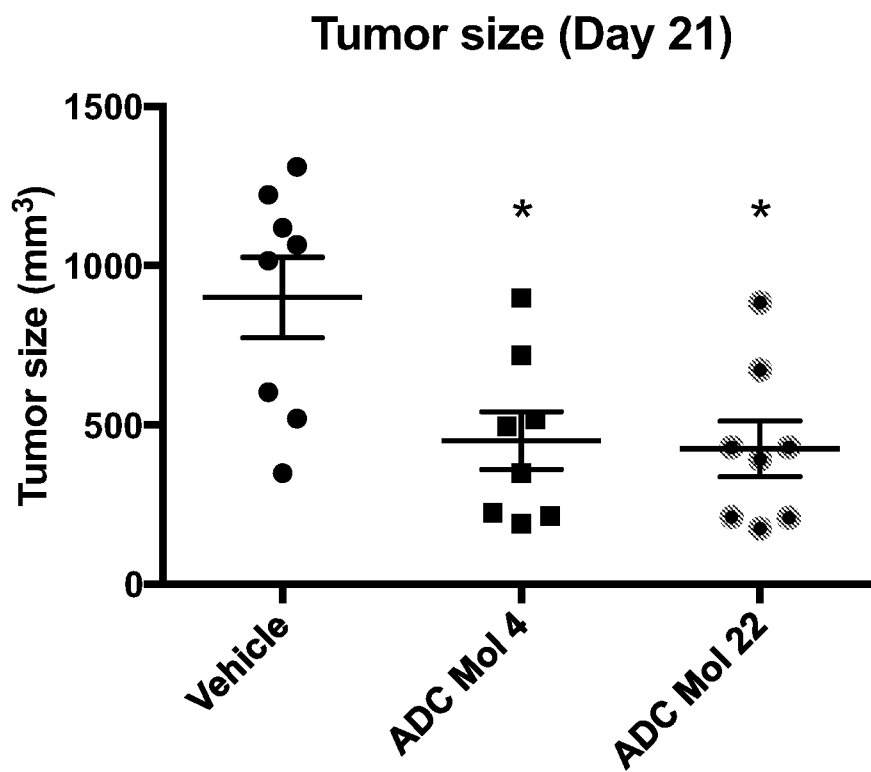


FIG. 14B

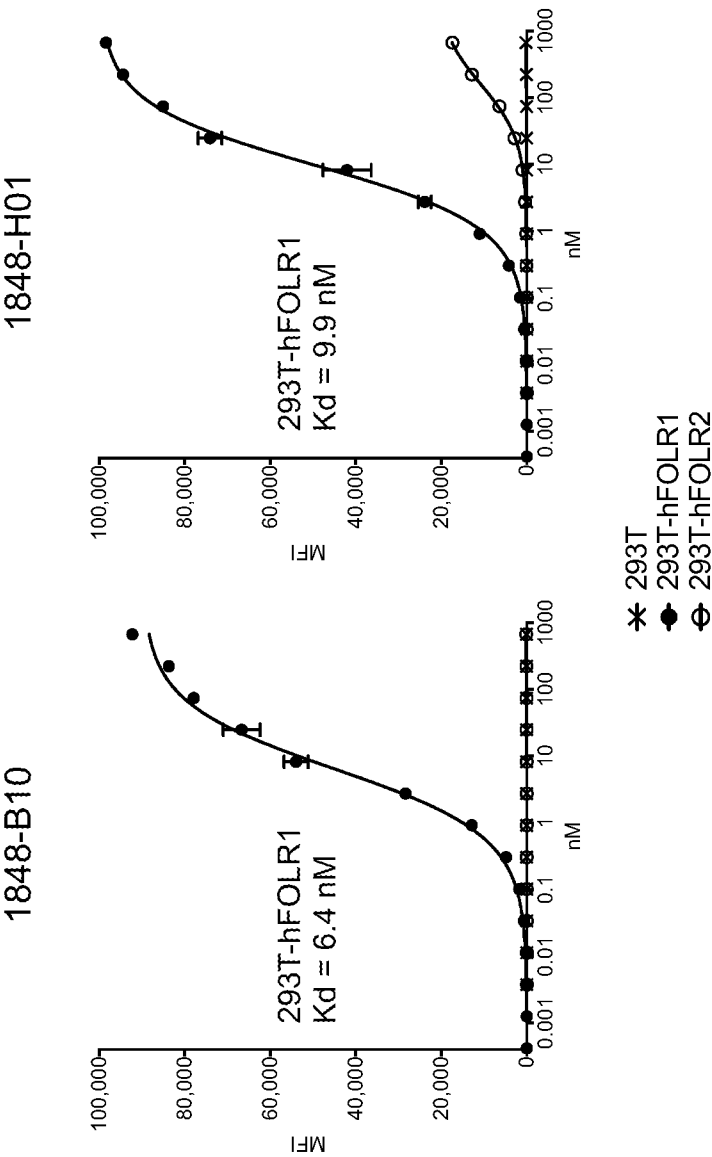


FIG. 15

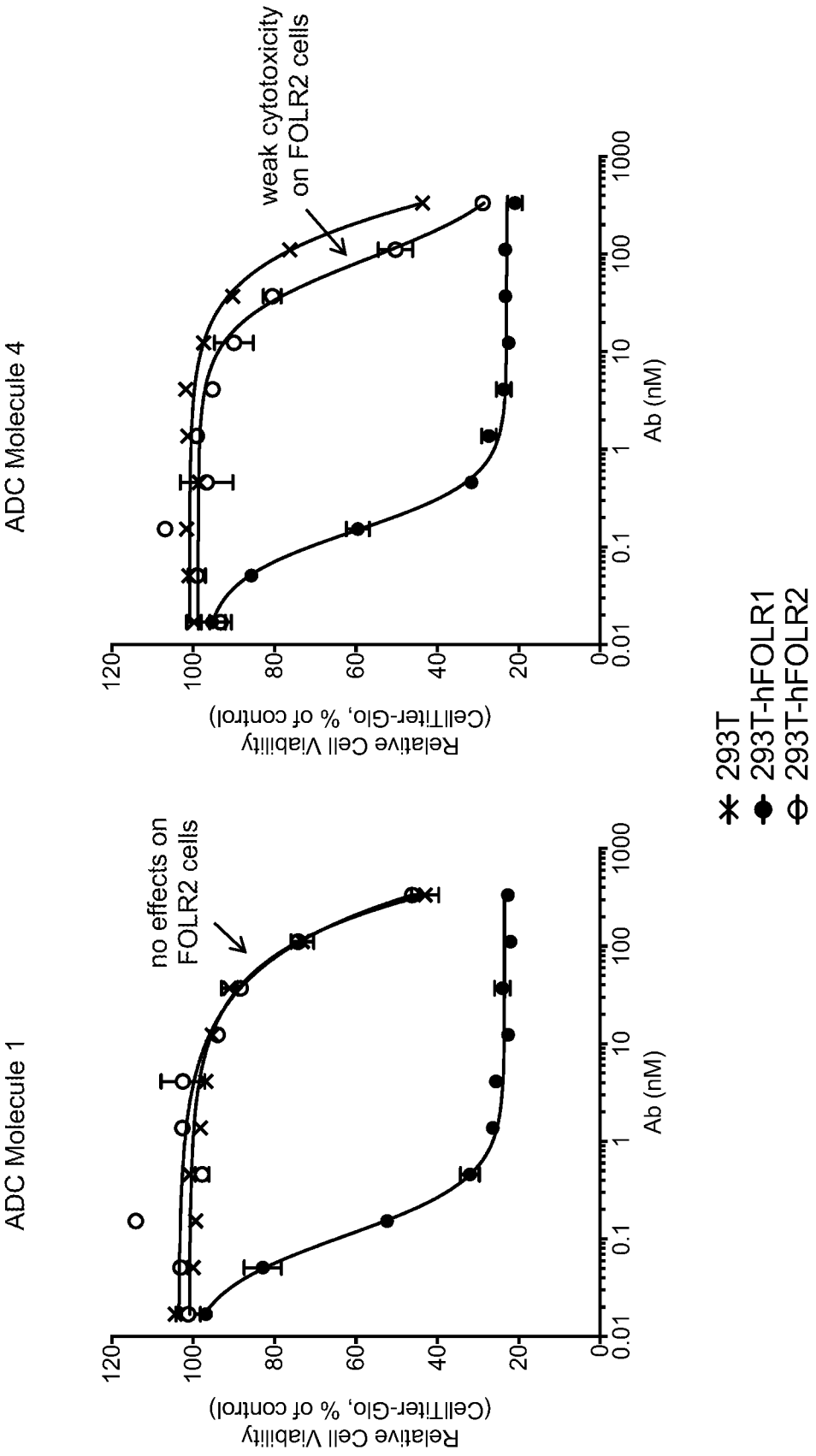


FIG. 16

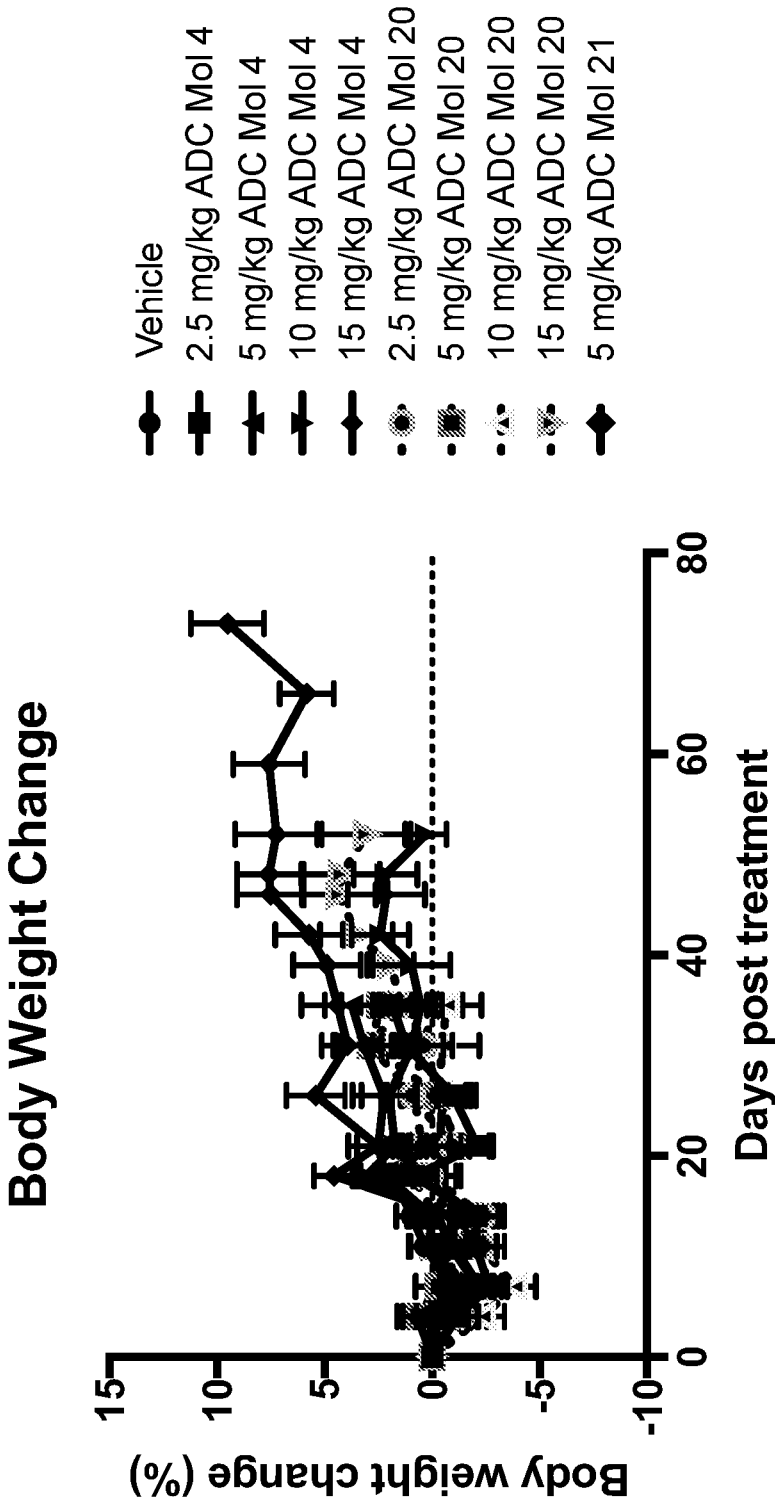


FIG. 17

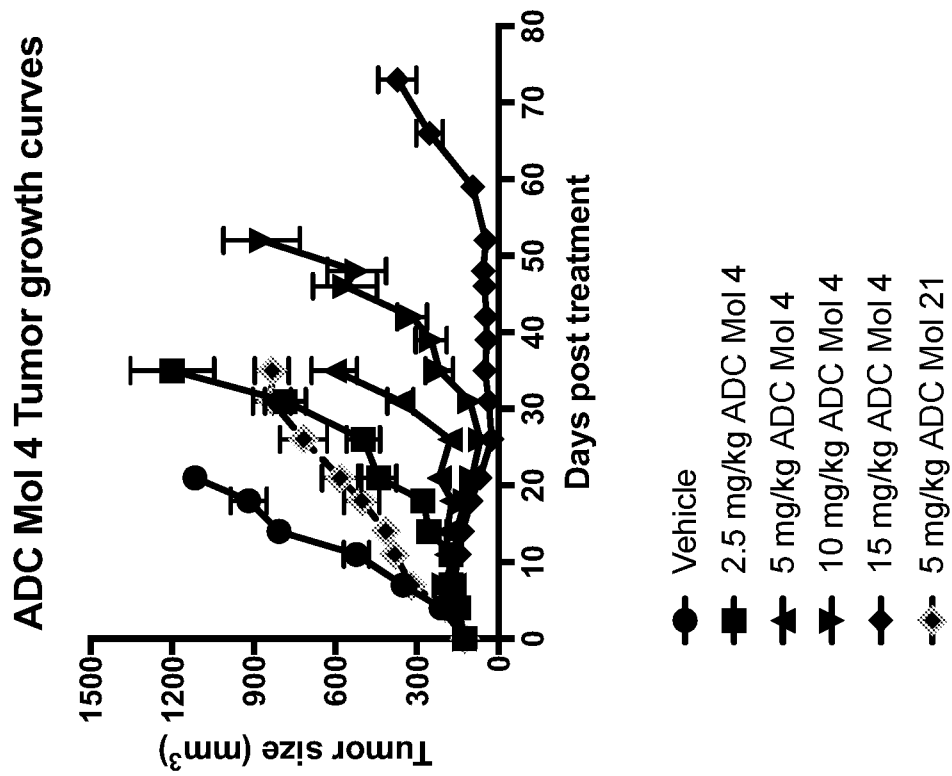


FIG. 18A

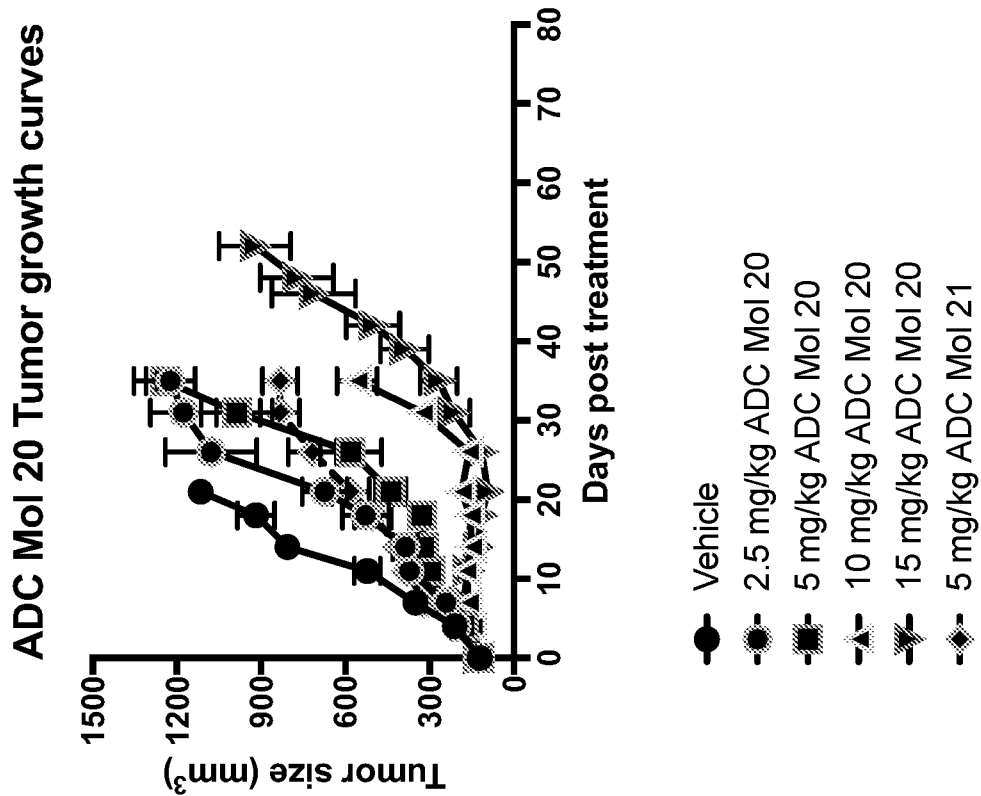
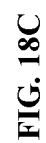


FIG. 18B



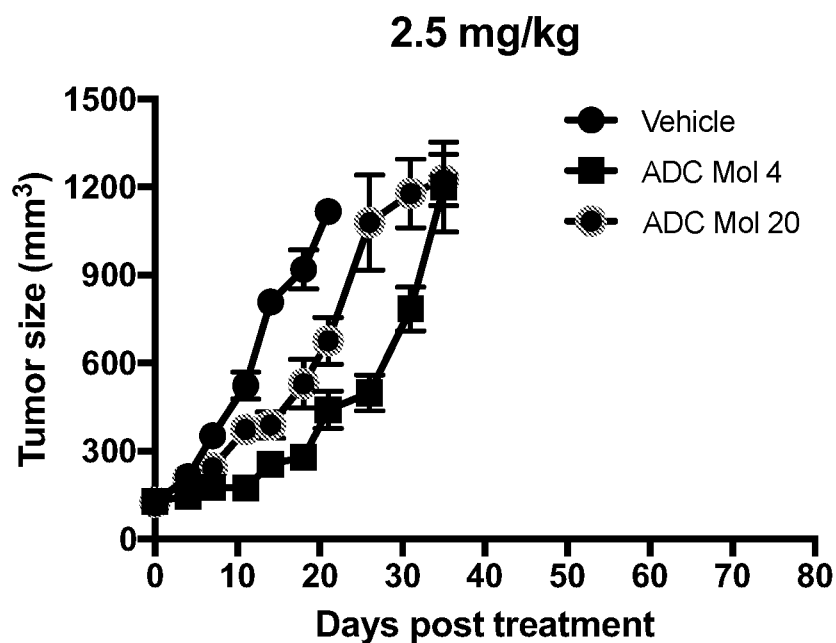


FIG. 19A

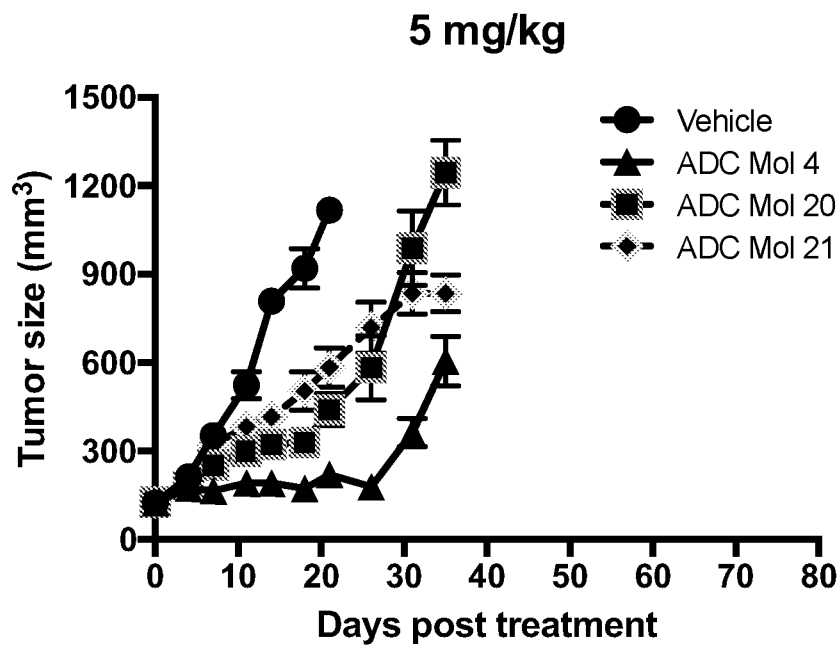


FIG. 19B

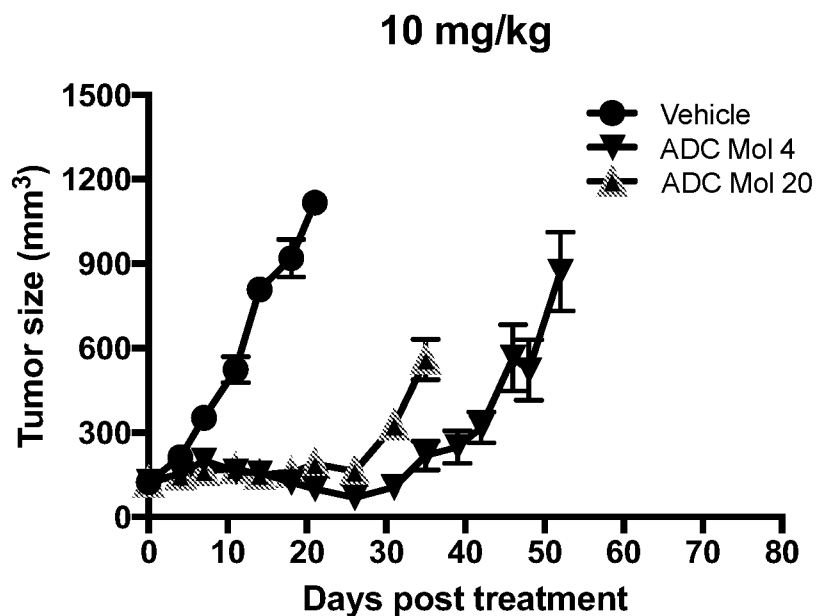


FIG. 19C

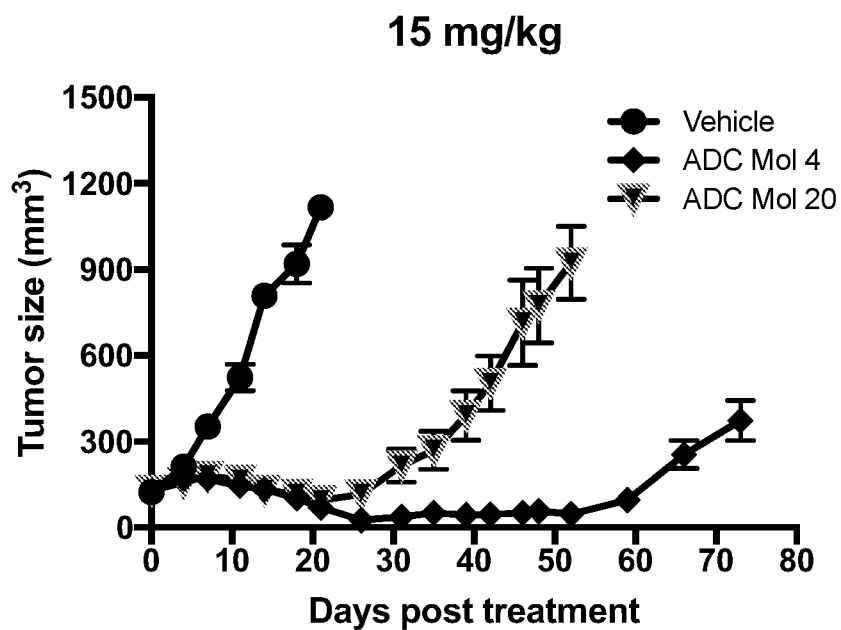
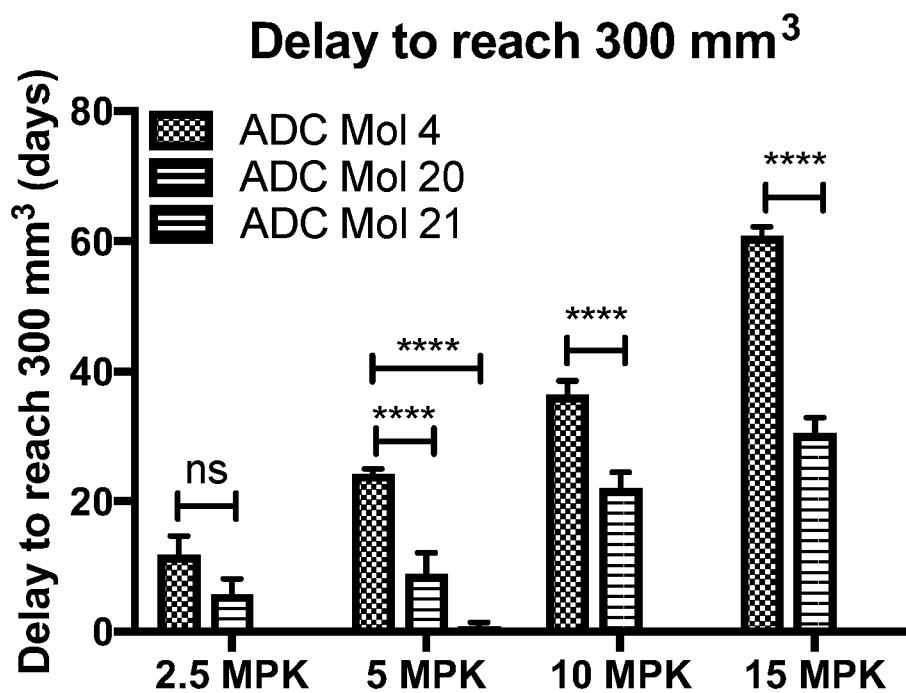


FIG. 19D



ns= not significant

FIG. 20

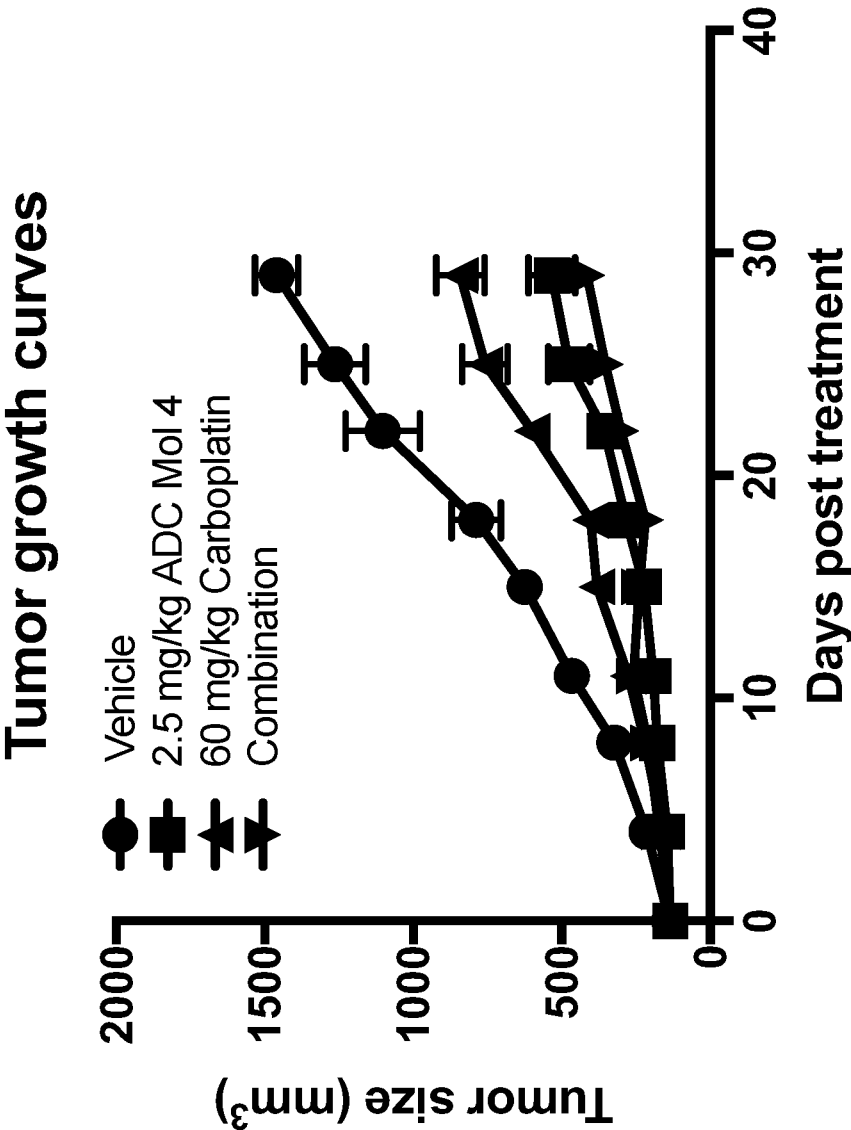


FIG. 21A

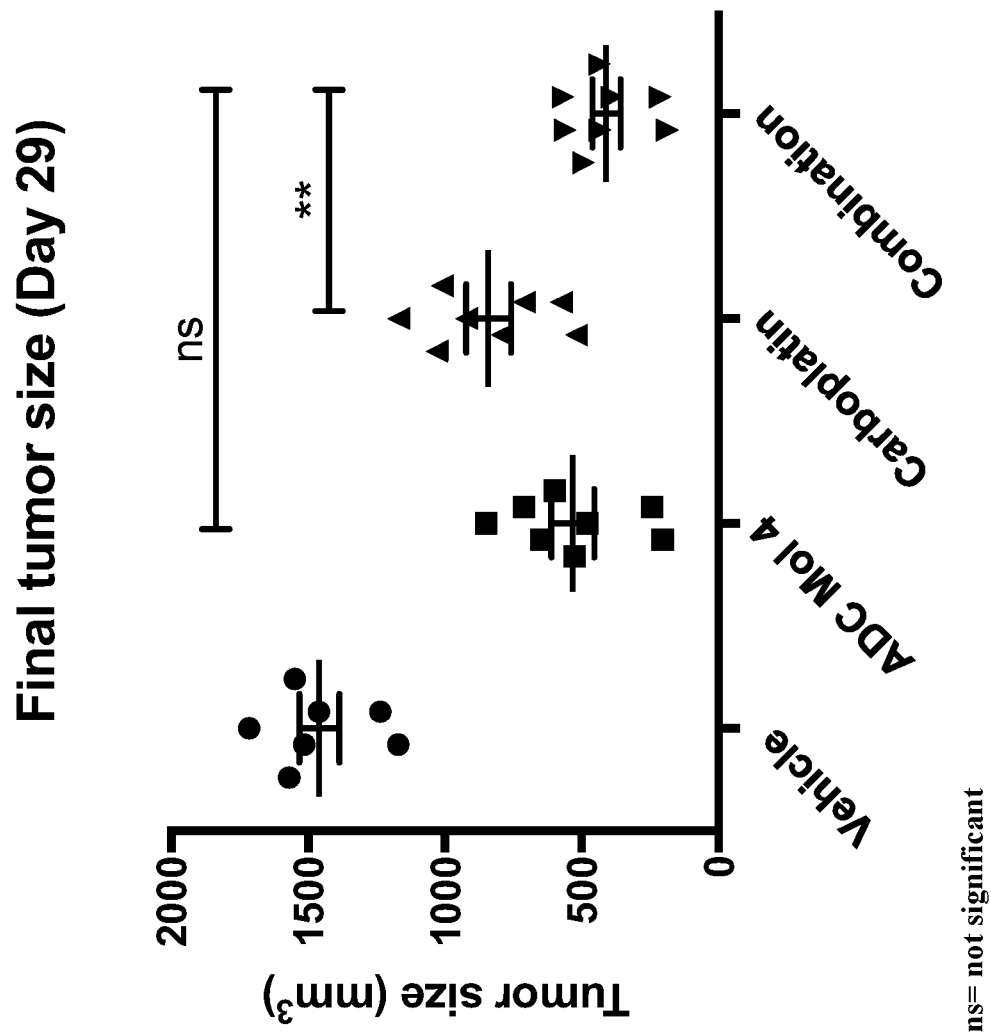


FIG. 21B

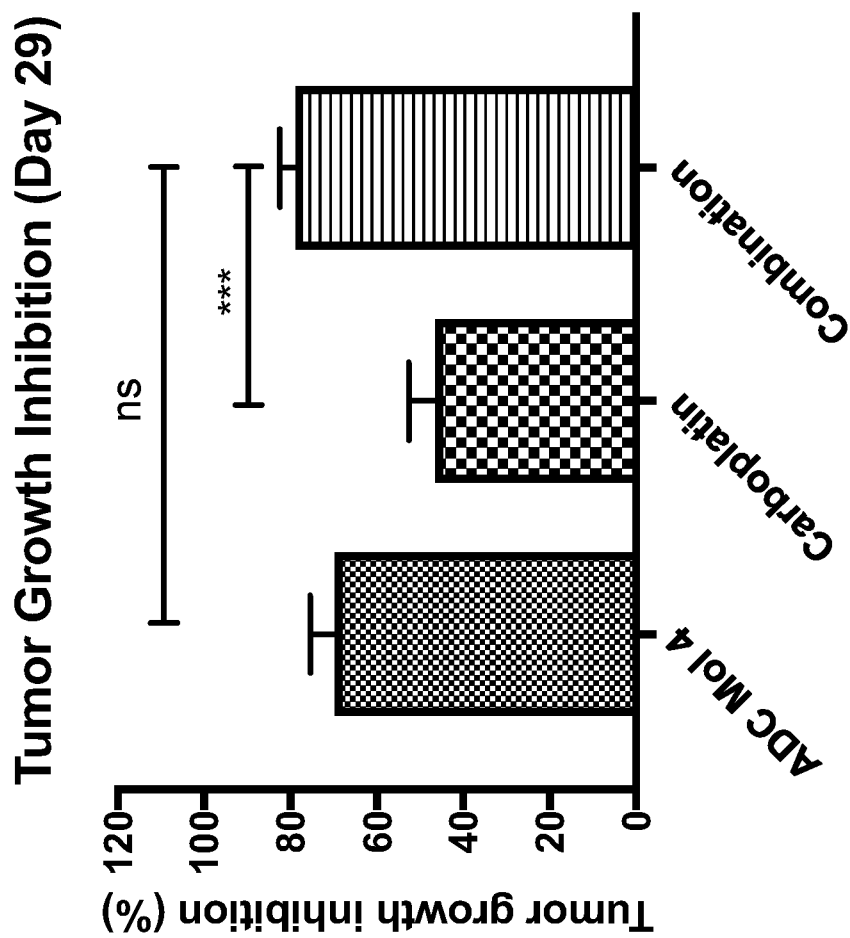


FIG. 21C

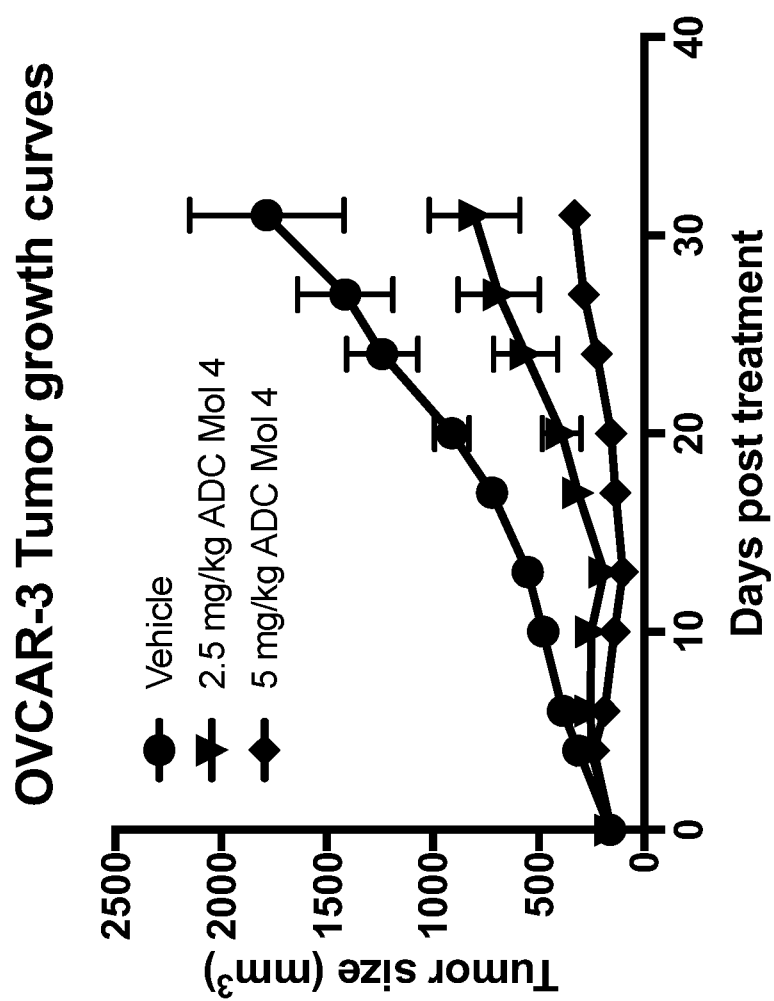
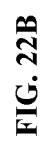


FIG. 22A



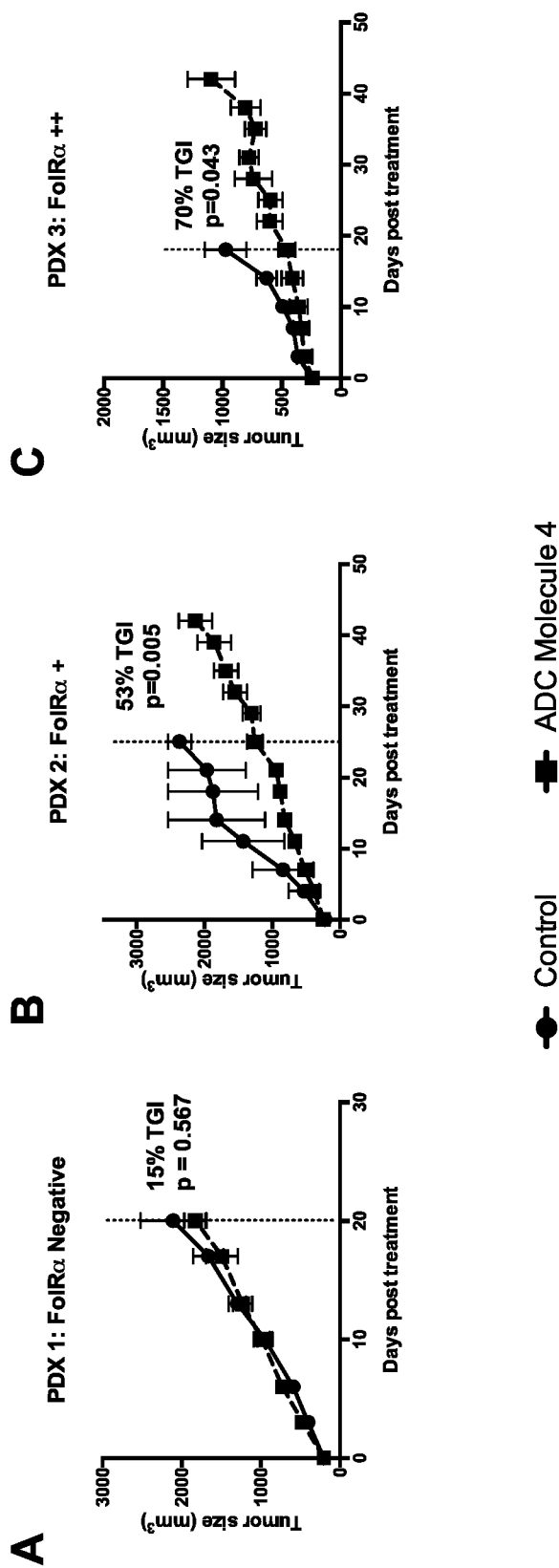


FIG. 23 (A-C)

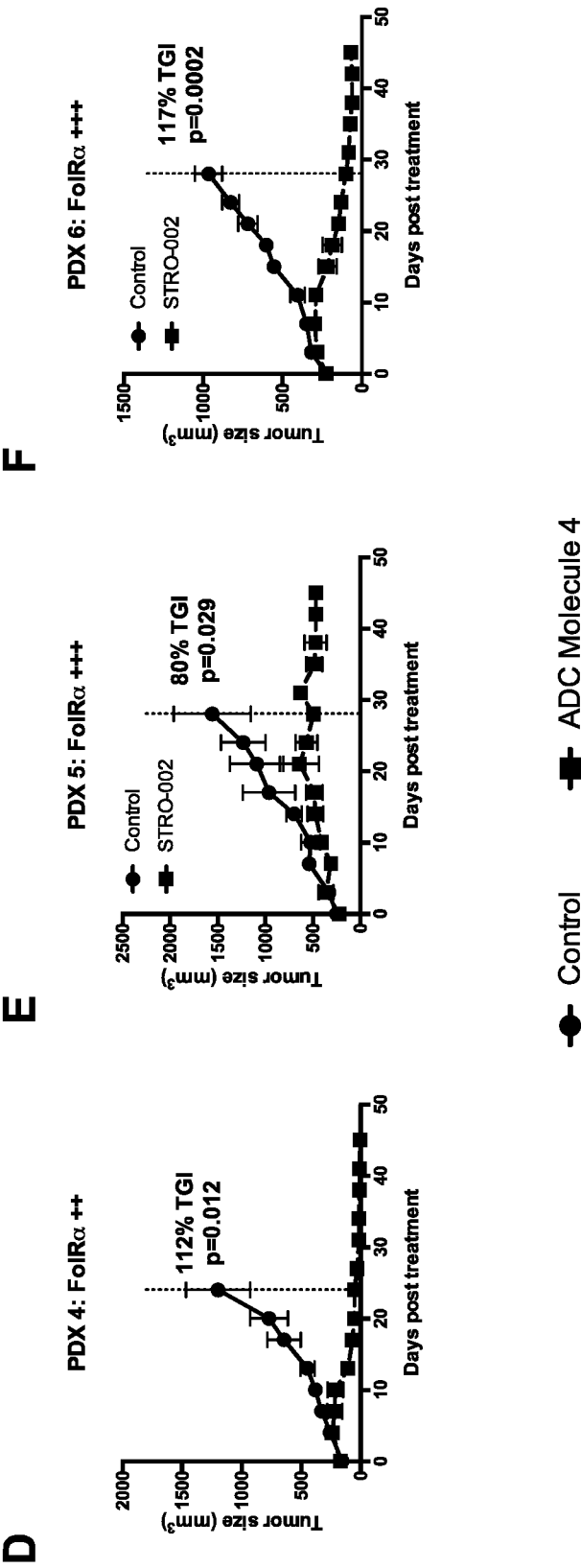


FIG. 23 (D-F)

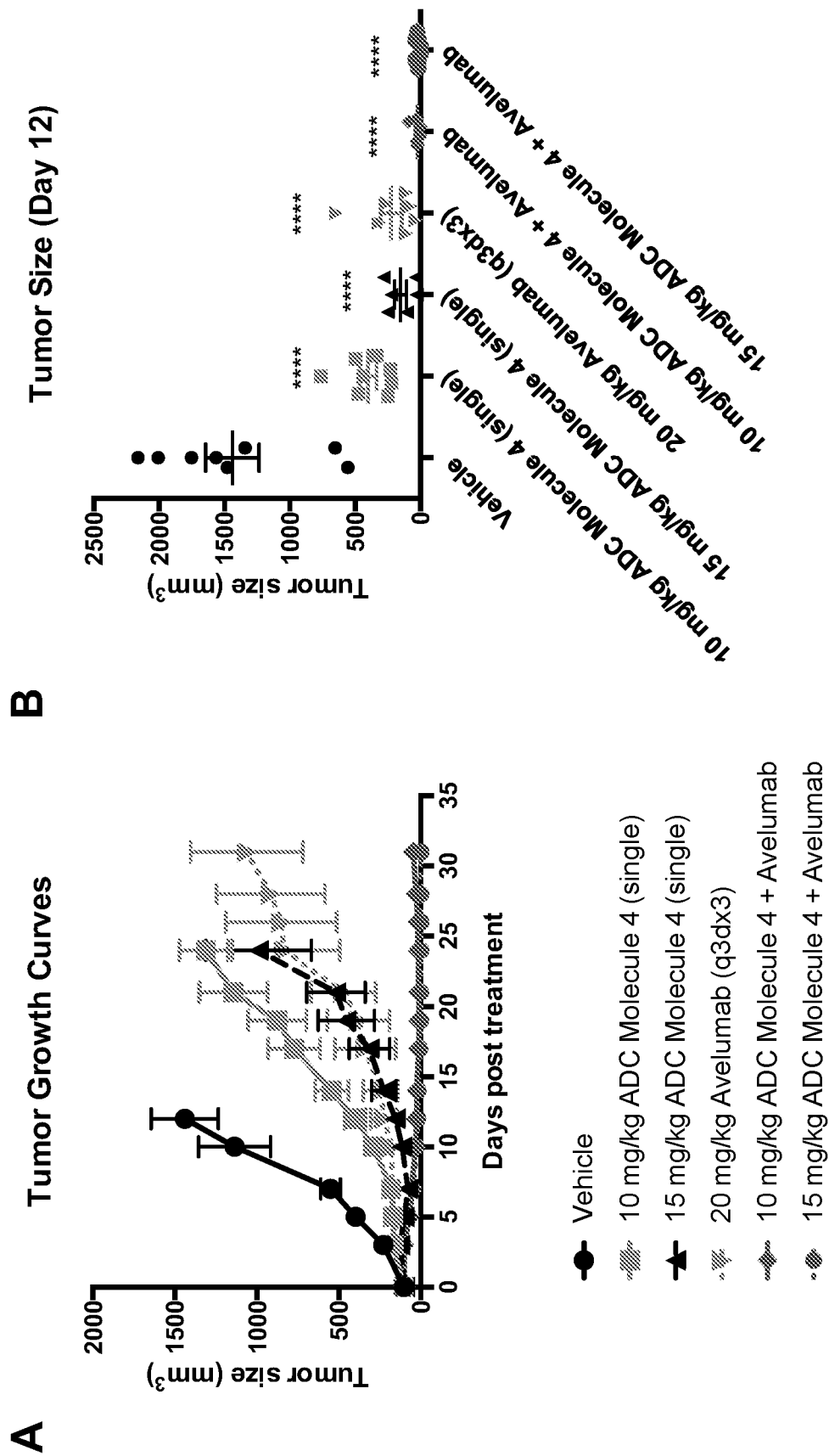


FIG. 24

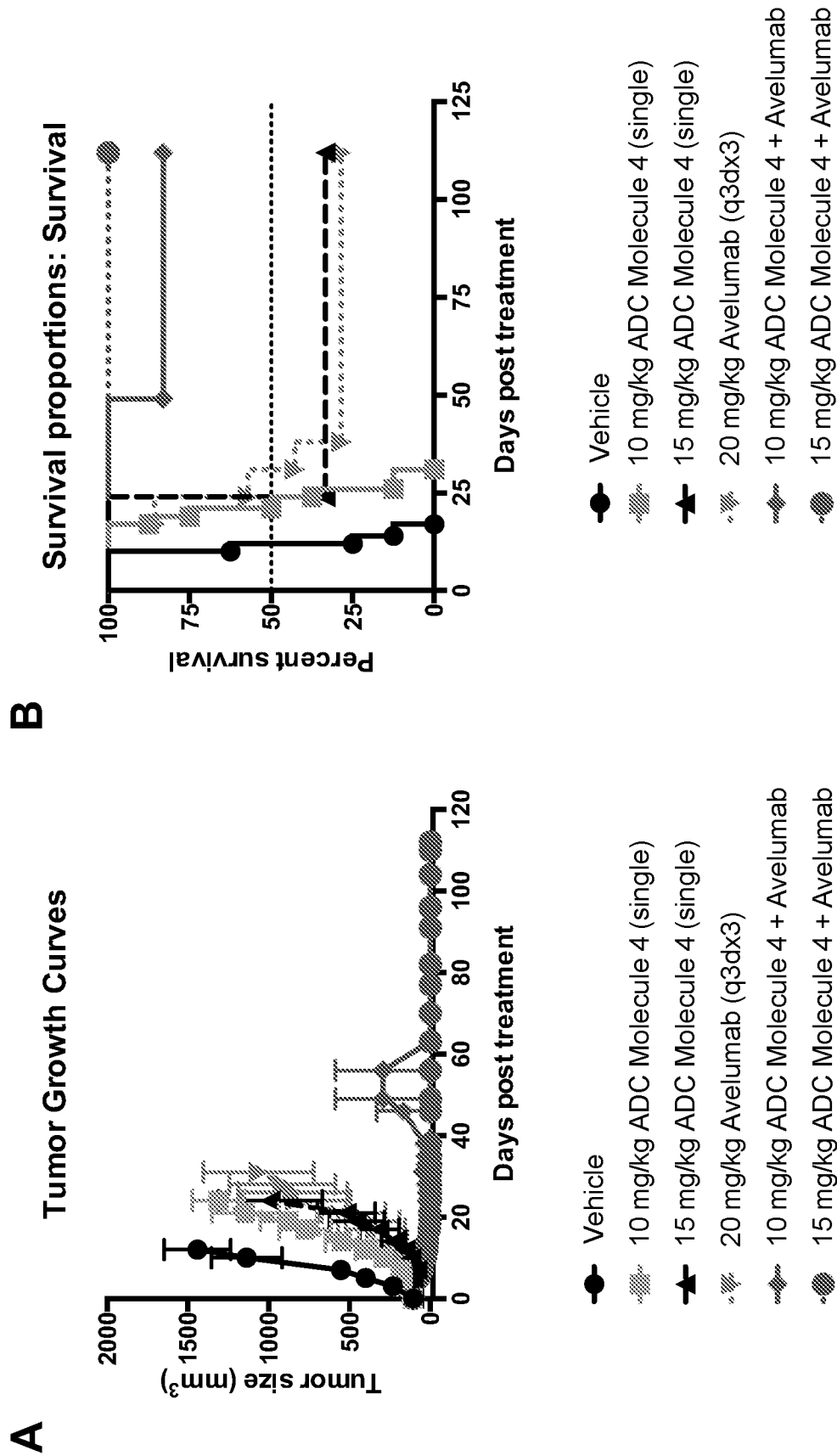


FIG. 25

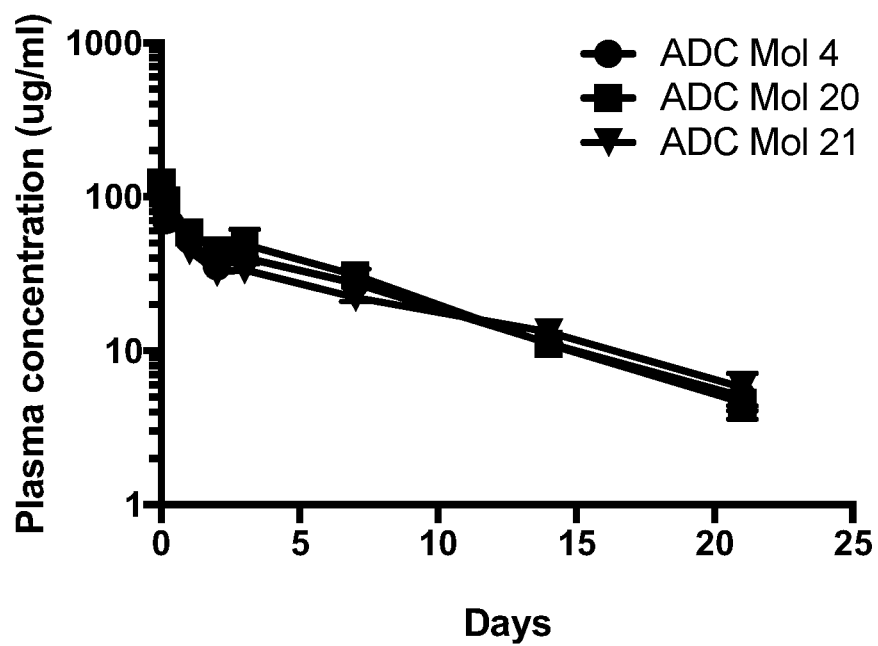


FIG. 26

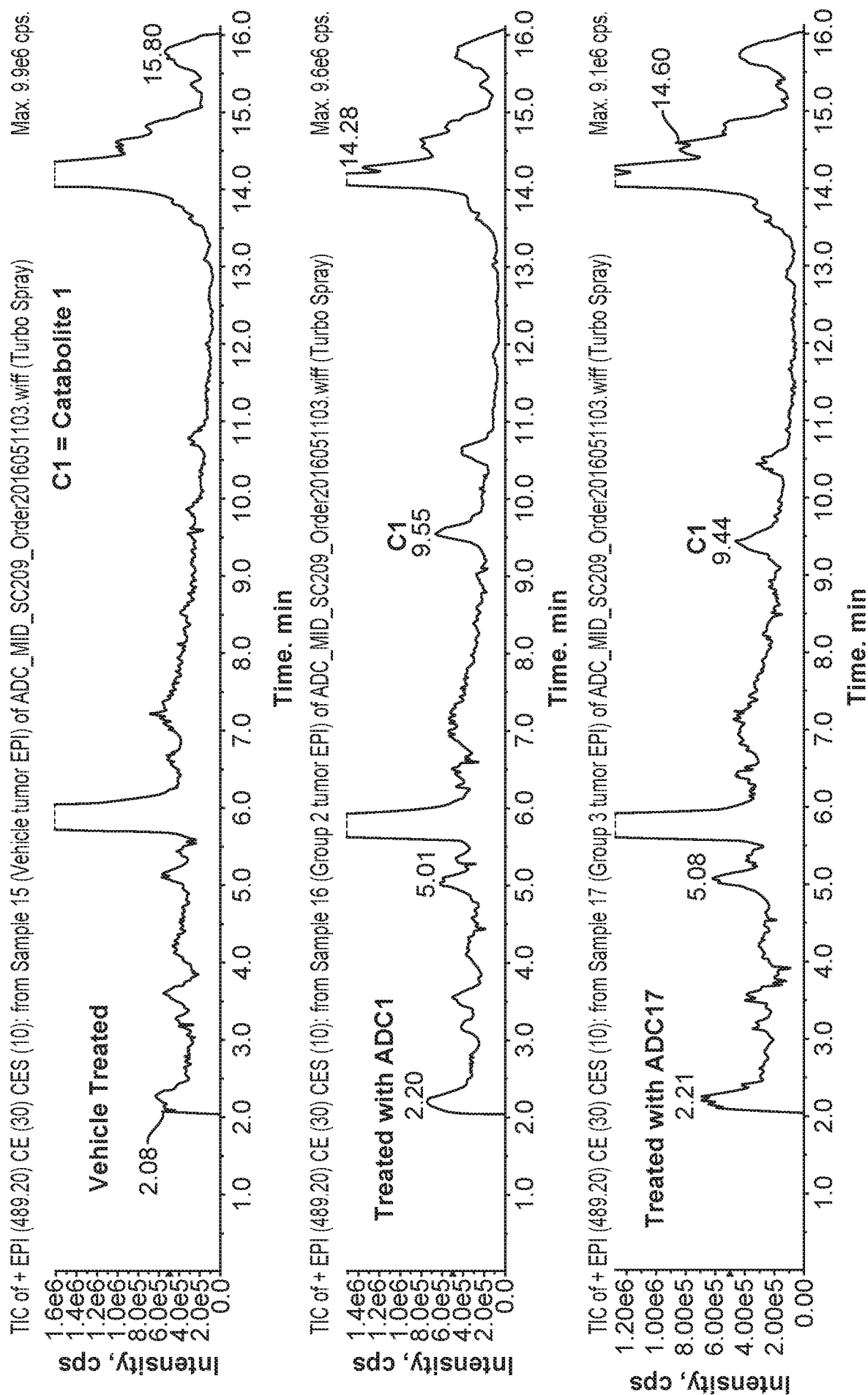


FIG. 27

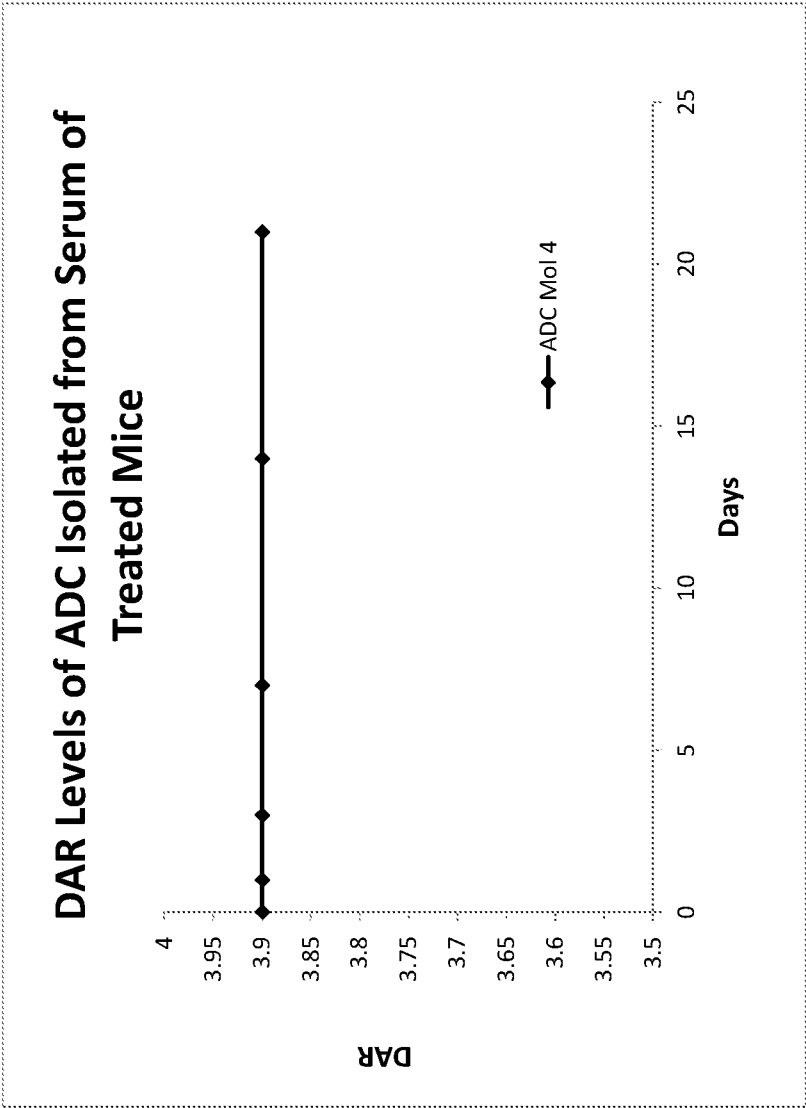


FIG. 28

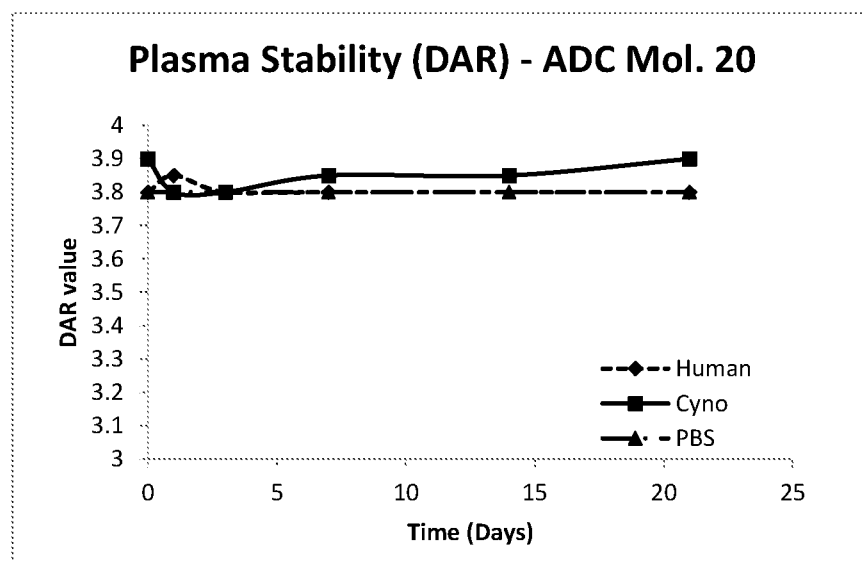
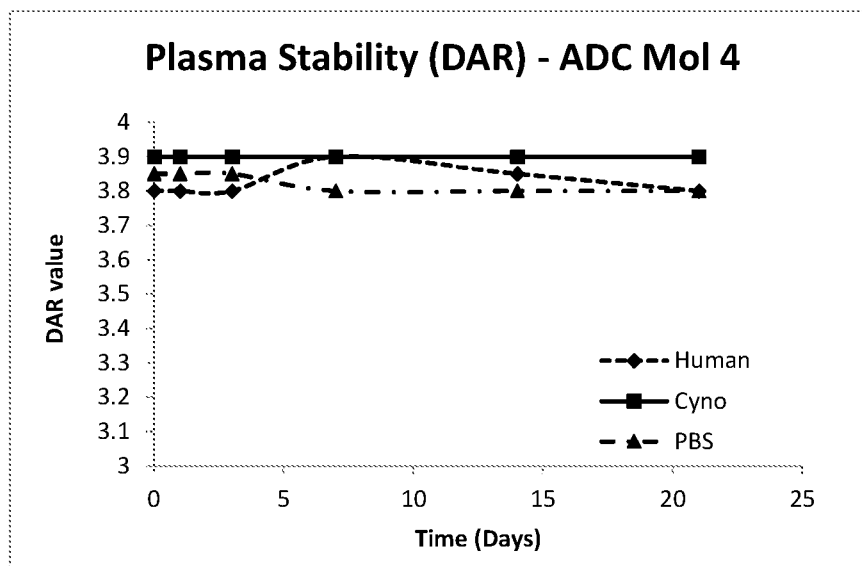
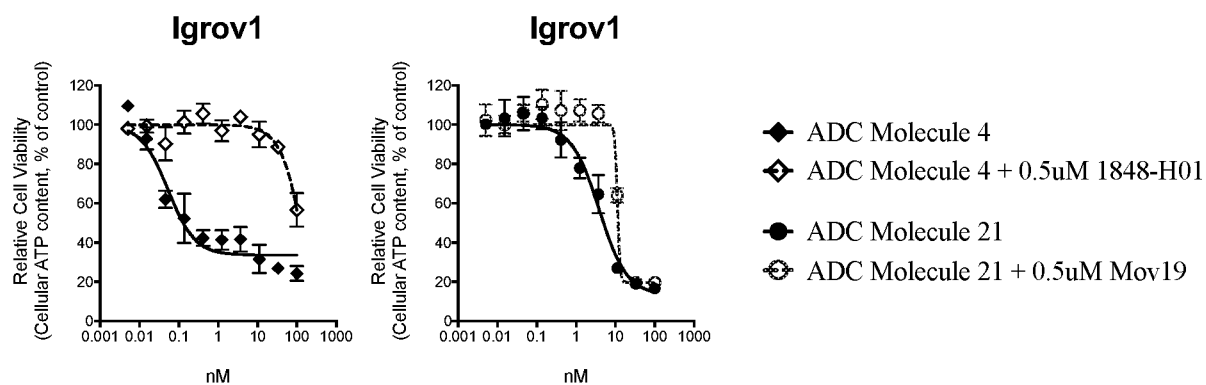
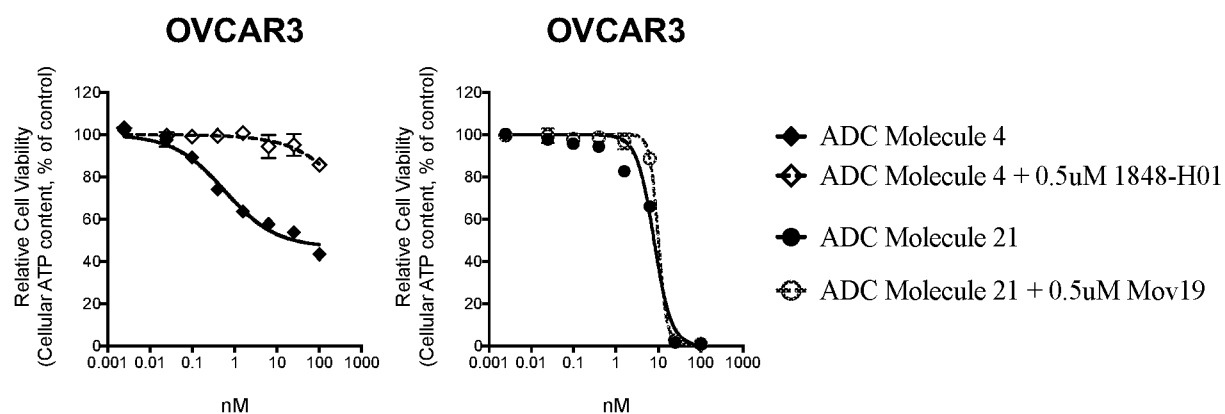


FIG. 29

A



B



C

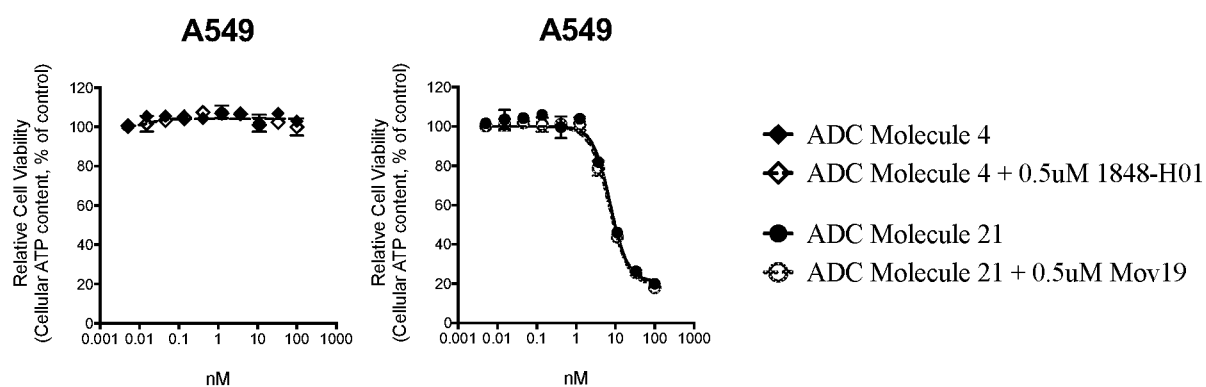


FIG. 30

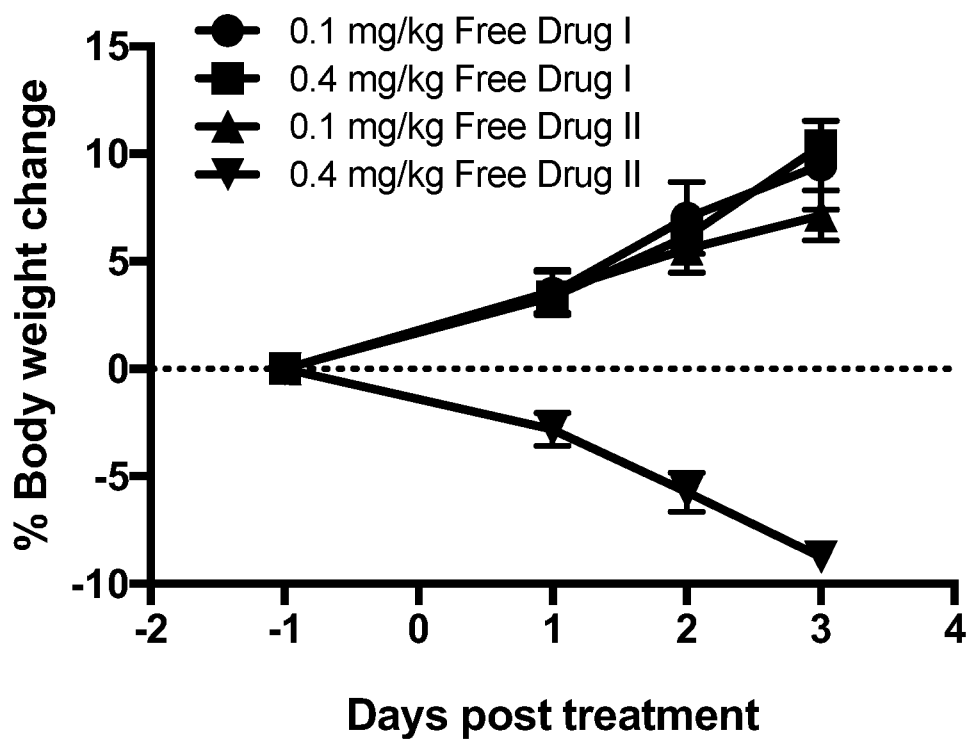


FIG. 31

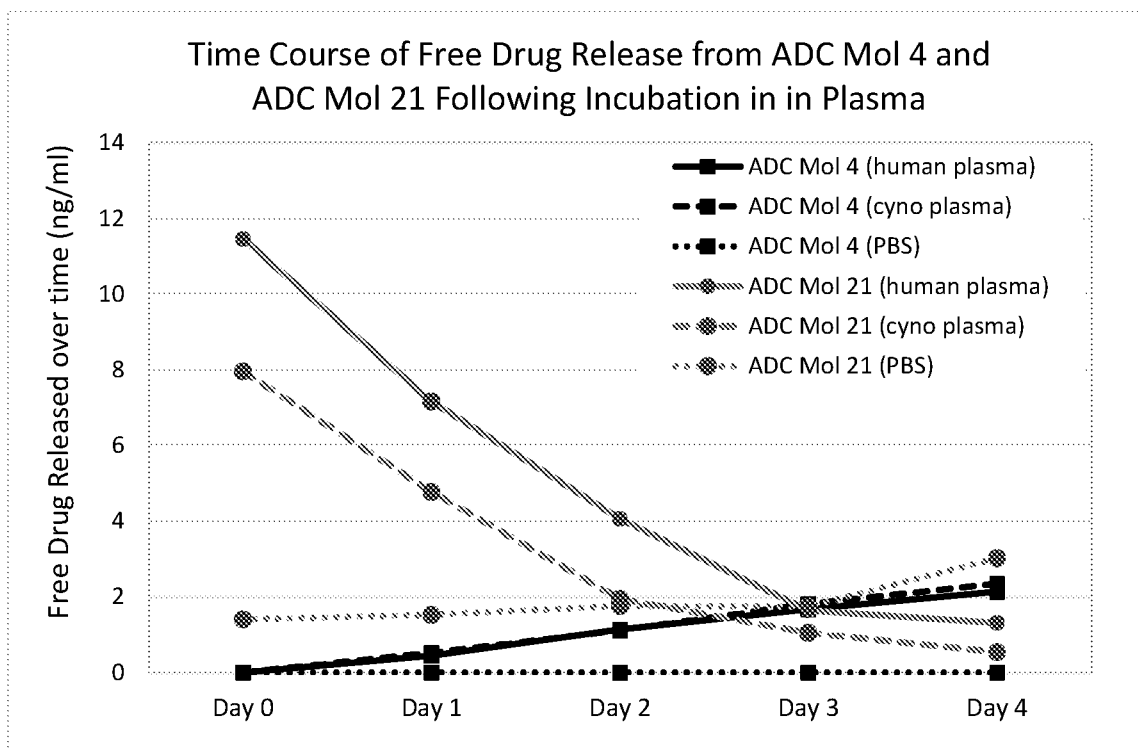


FIG. 32

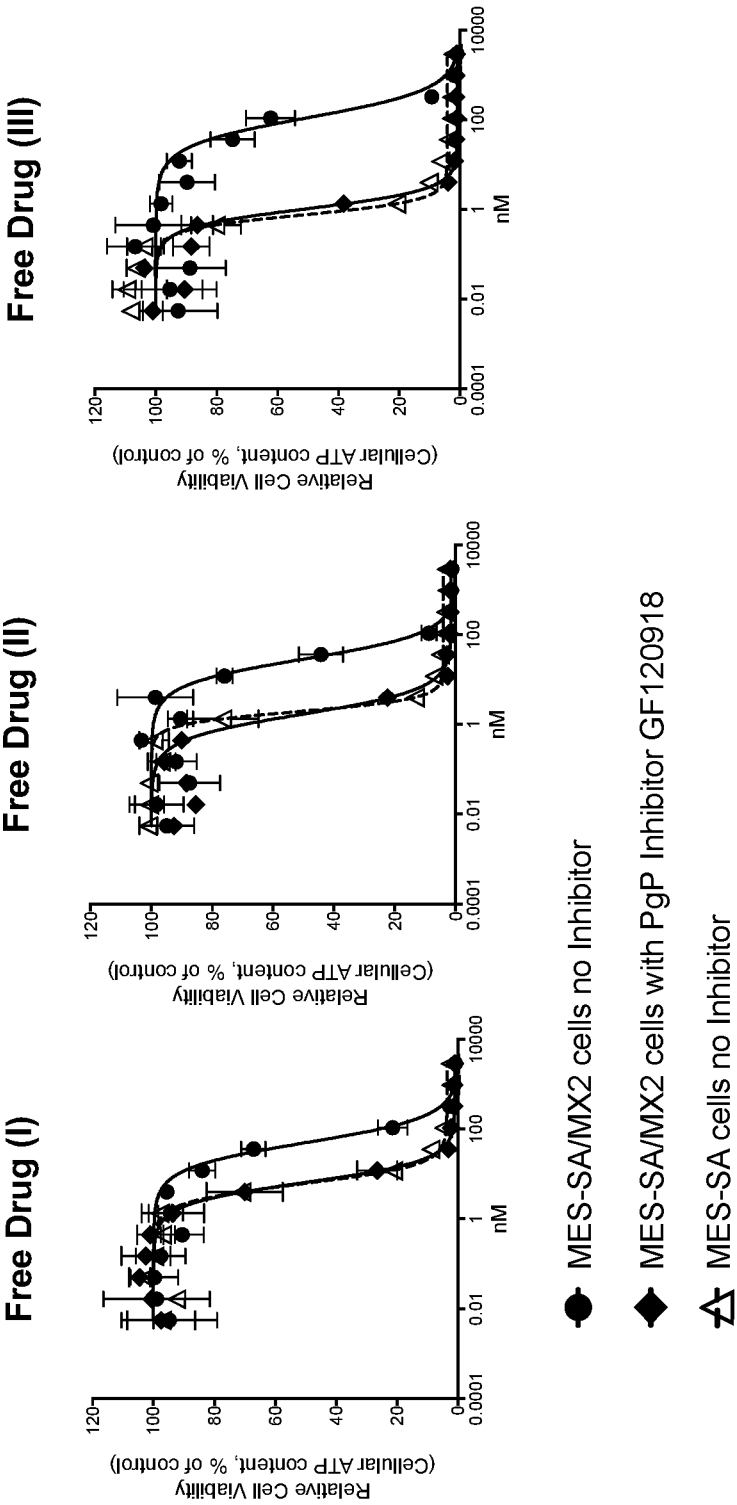
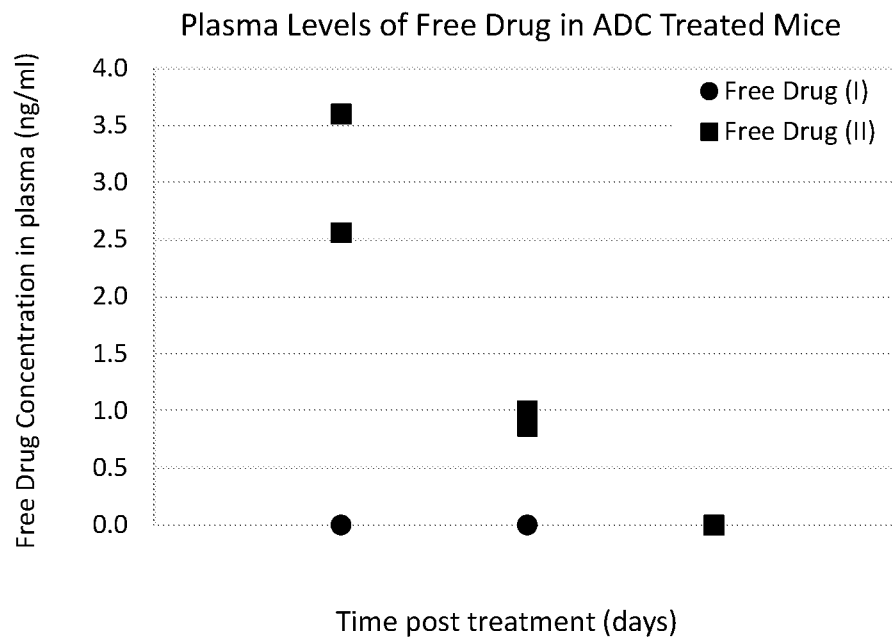
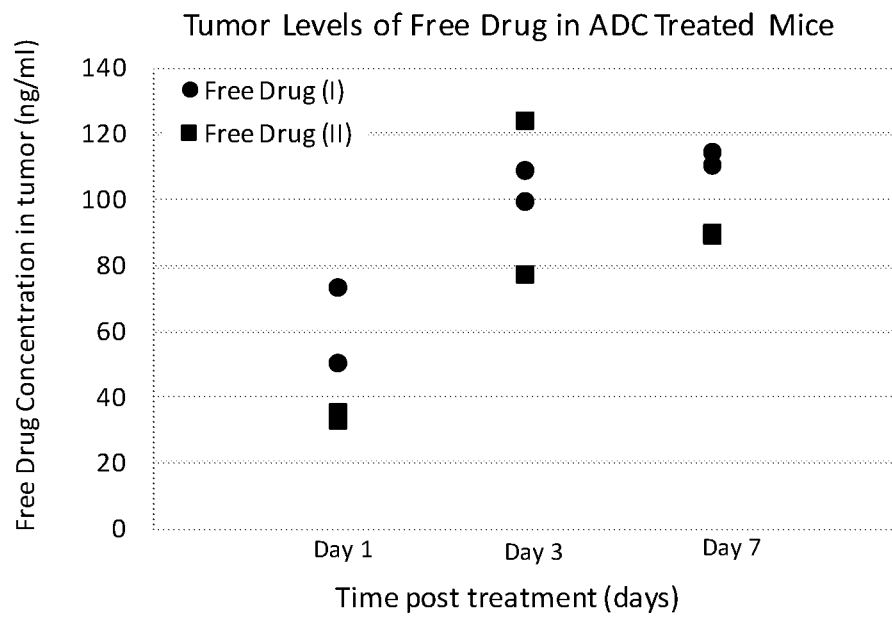


FIG. 33

A**B****FIG. 34**

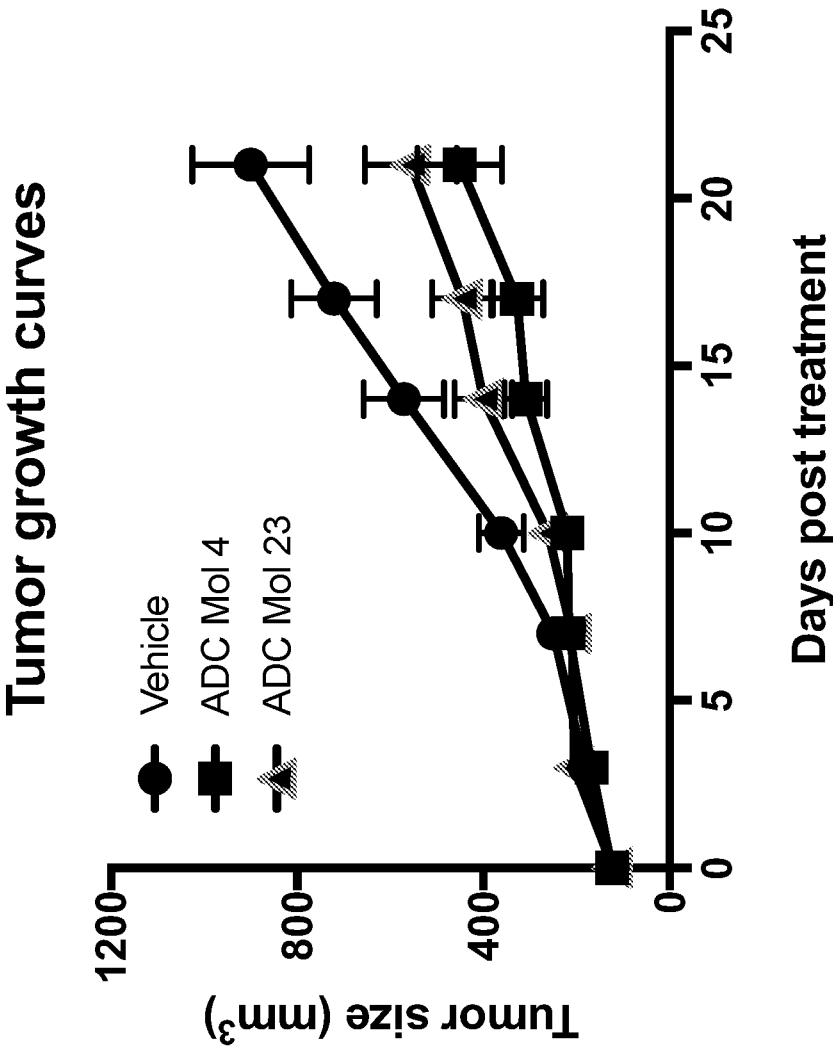


FIG. 35A

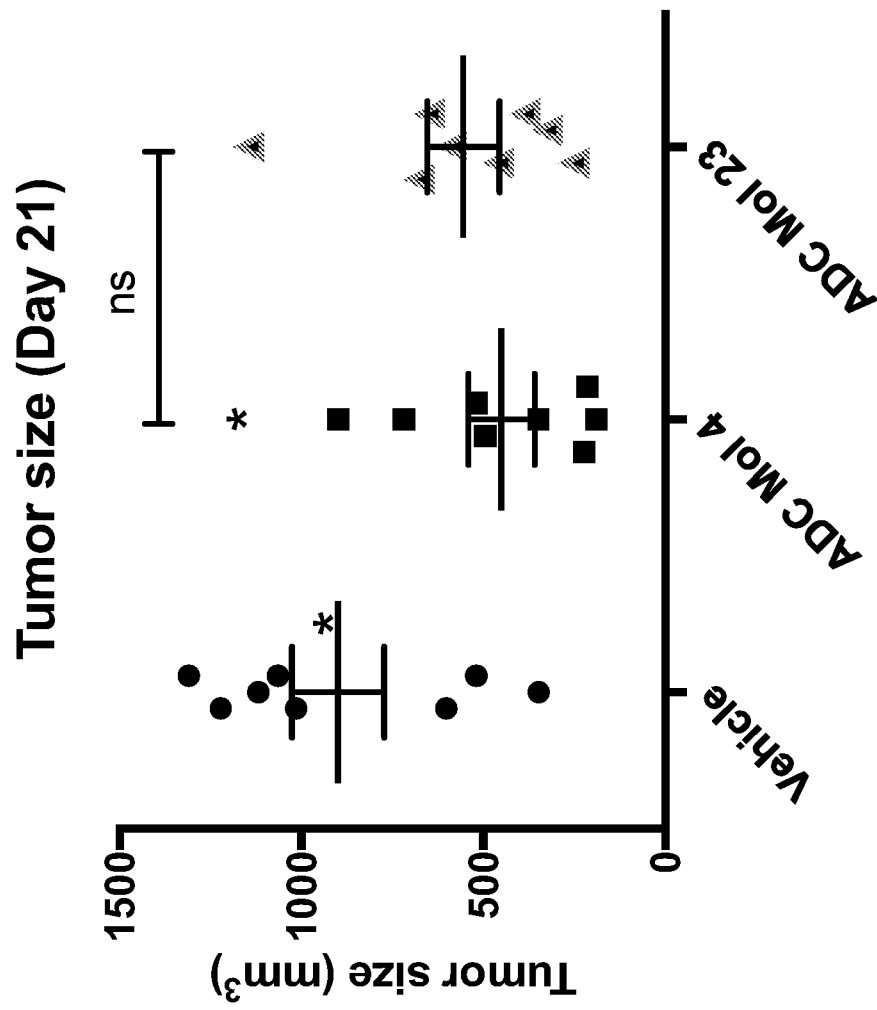


FIG. 35B

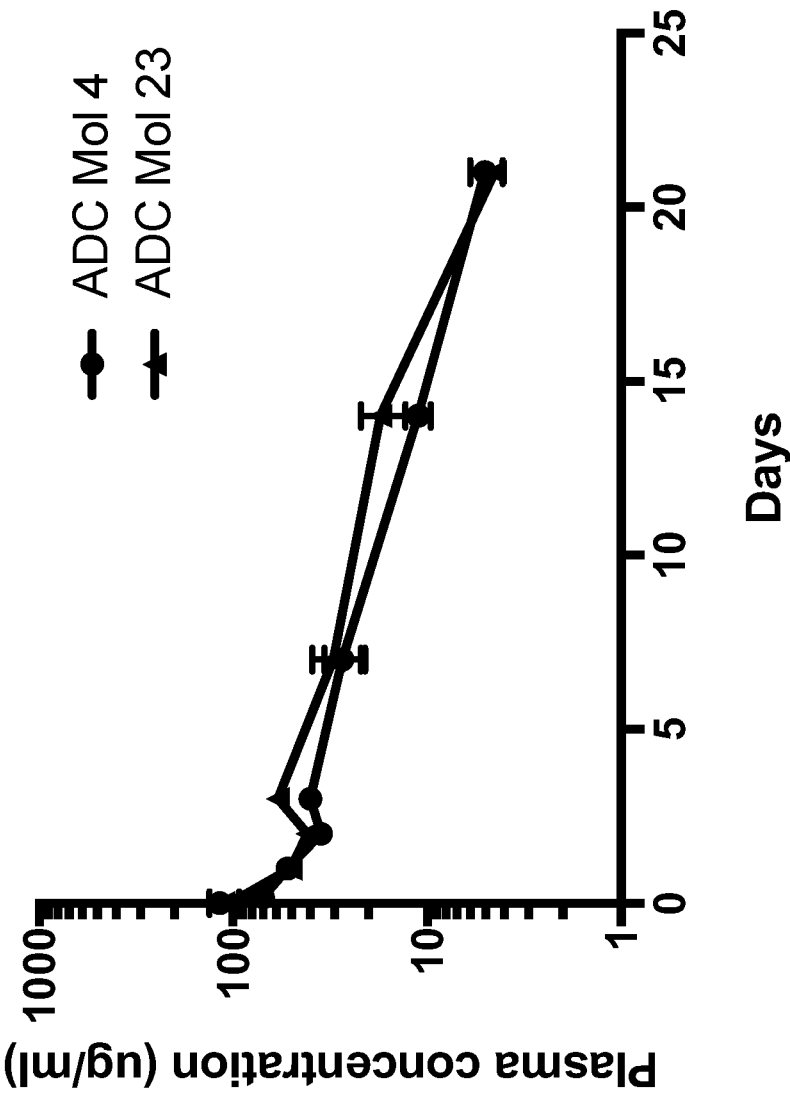


FIG. 36