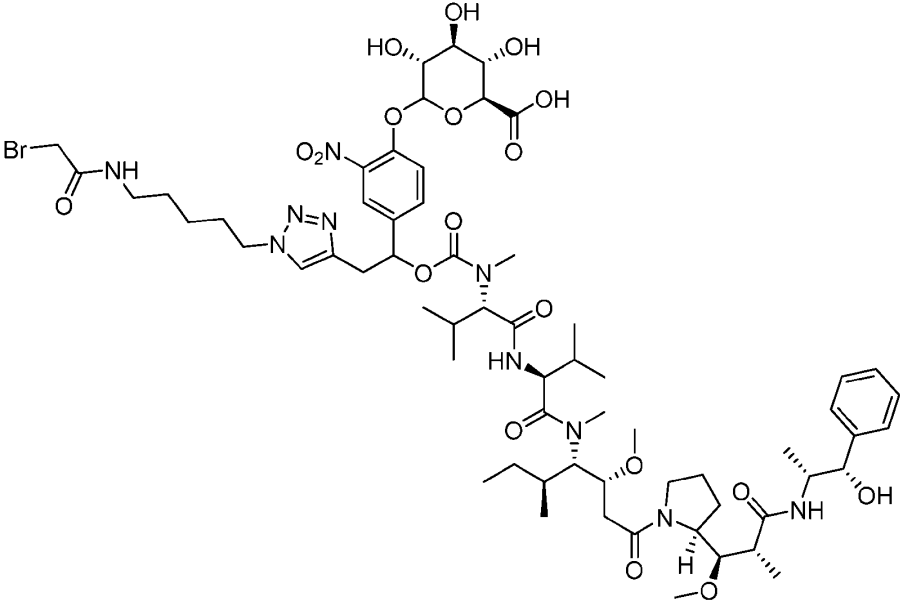


FIG. 1



SPC07

FIG. 2A

BA-143-00-VK	DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP GKAPKFLIYA ASTLQSGVPSRFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG GTKVEIK... .. (SEQ ID NO: 31)
BA-143-01-VK	DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP GKAPKFLIYA ASTLQSGVPSRFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG GTKVEIK... .. (SEQ ID NO: 32)

FIG. 2B

BA-143-00-VH	EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA PGKGLEWVSY ISSSSSTIYYADSVKGRFTI SRDNAKNSLS LQMNSLRDED TAVYYCARAY YGMDVWGQG TTVTVSS (SEQ ID NO: 18)
BA-143-01-VH	EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA PGKGLEWVSY ISSSSSTIYYADSVKGRFTI SRDNAKNSLS LQMNSLRDED TAVYYCARAY YGMDVWGQG TTVTVSS (SEQ ID NO: 19)

FIG. 3A

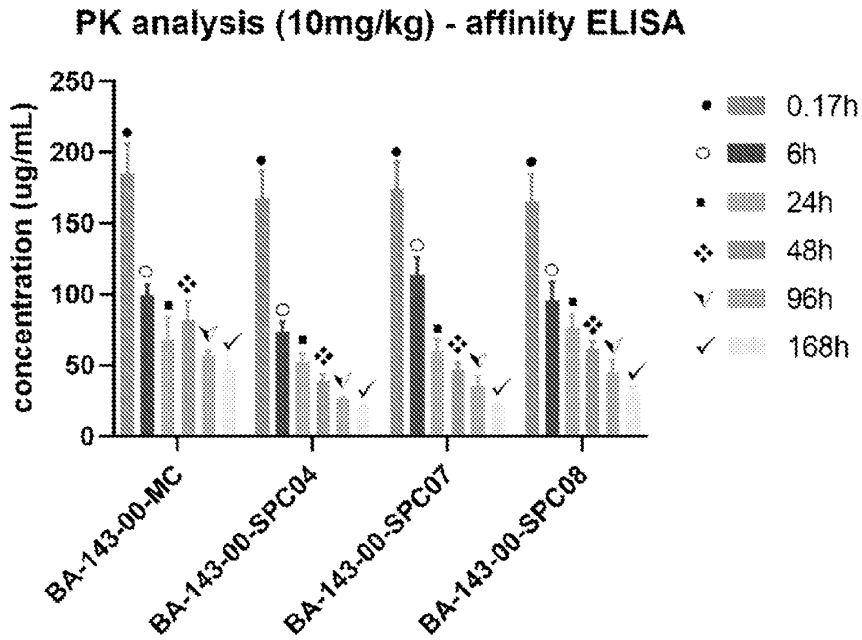


FIG. 3B

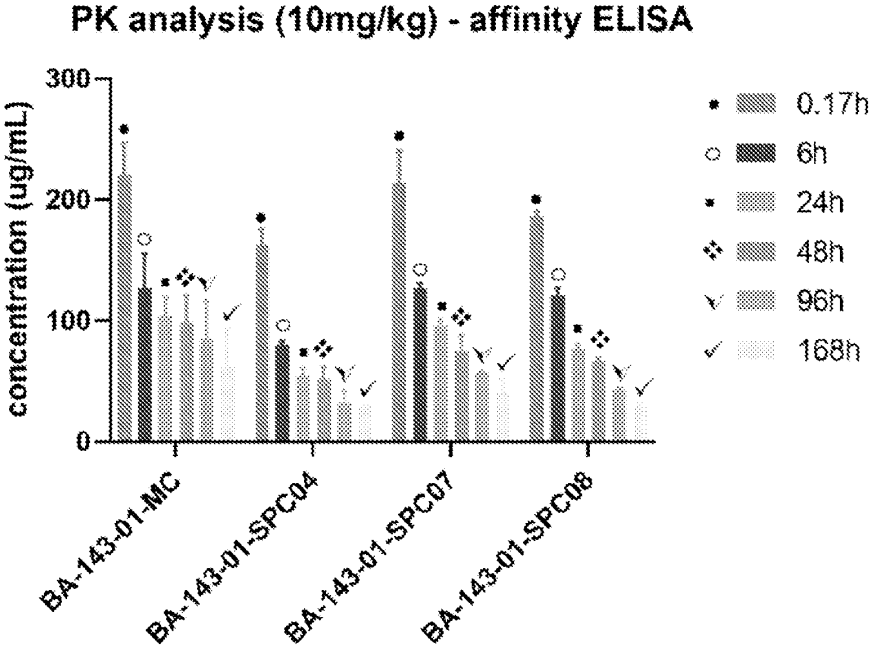


FIG. 4A

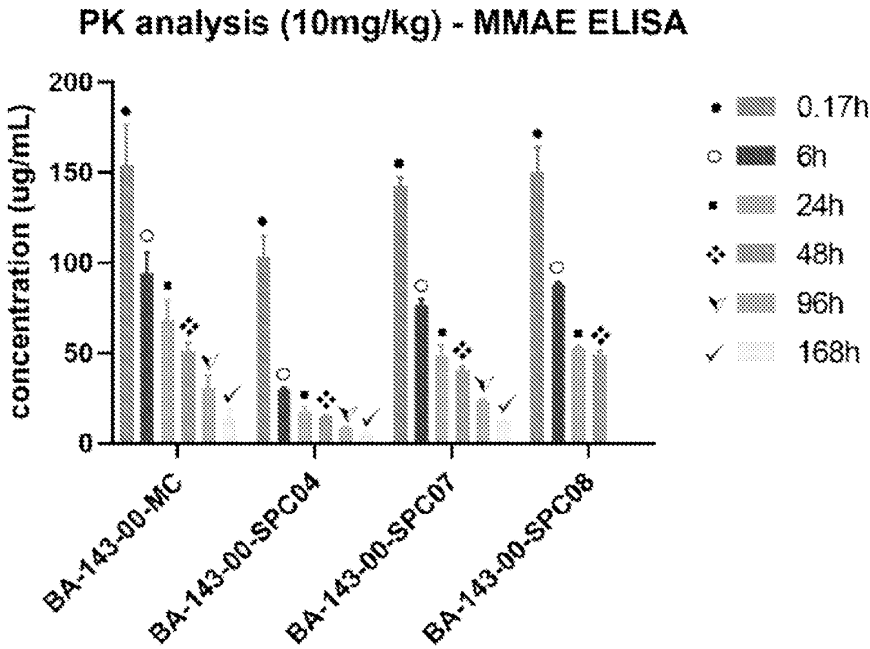


FIG. 4B

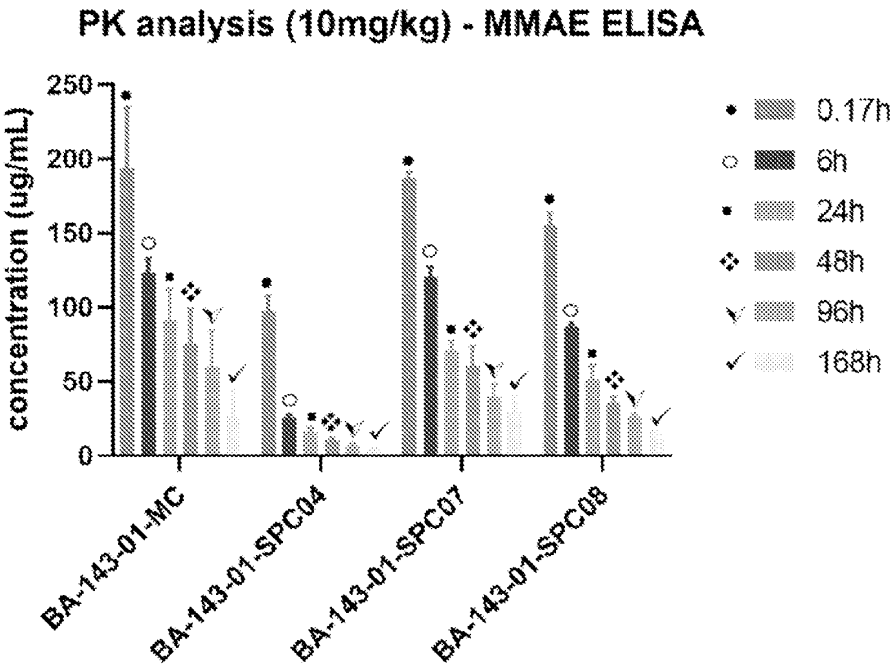


FIG. 5A

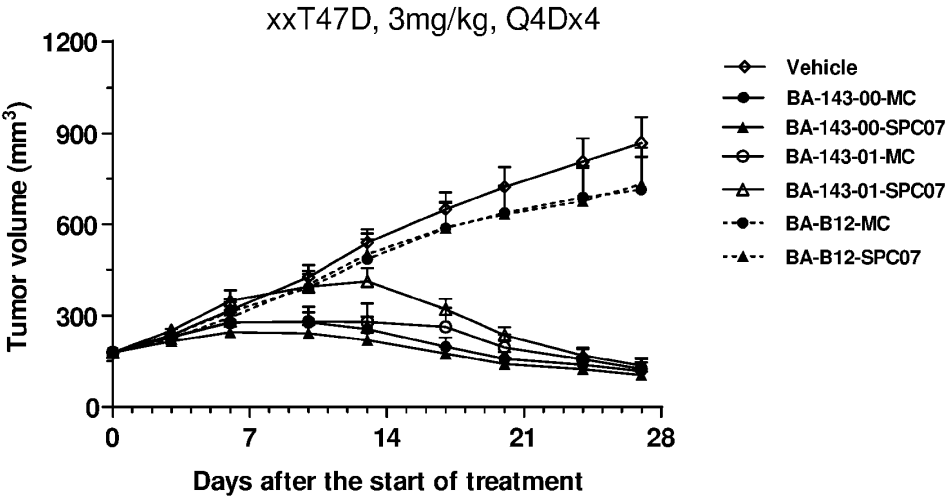


FIG. 5B

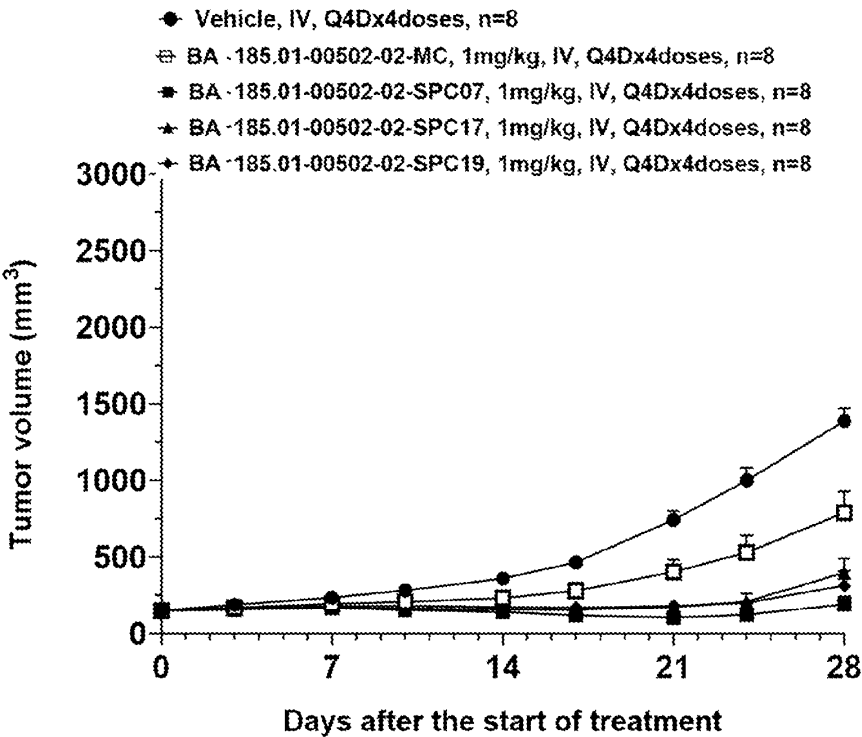


FIG. 5C

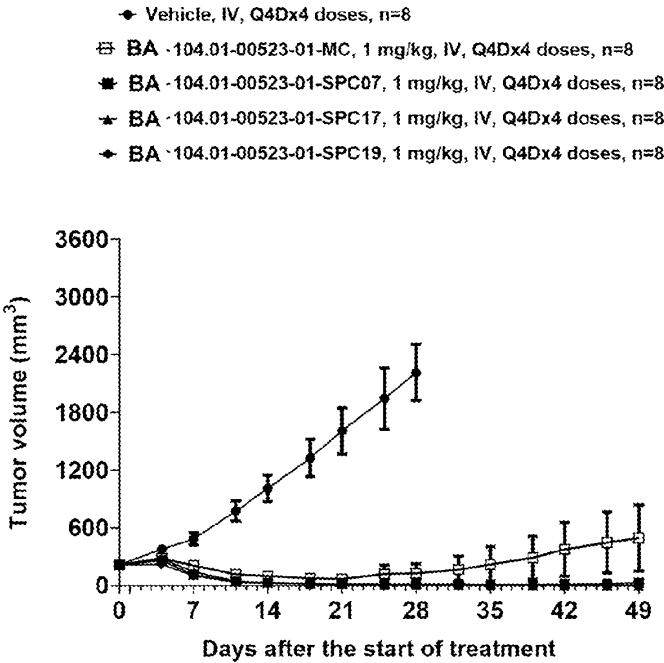


FIG. 5D

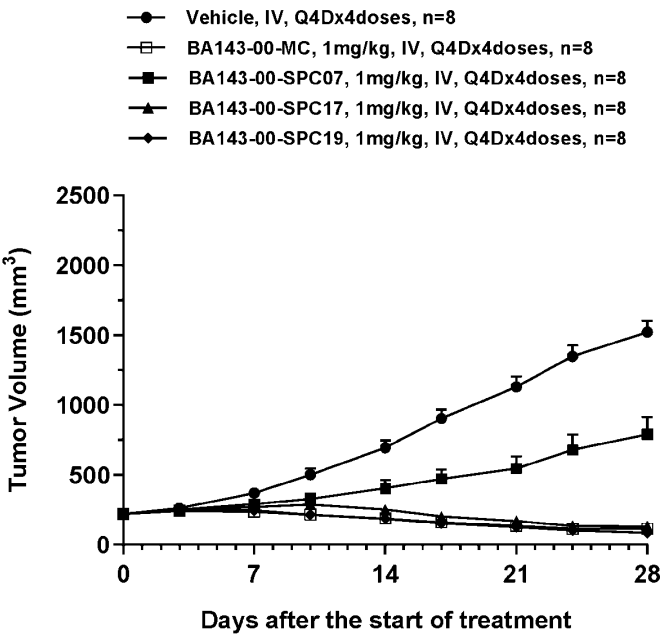


FIG. 5E

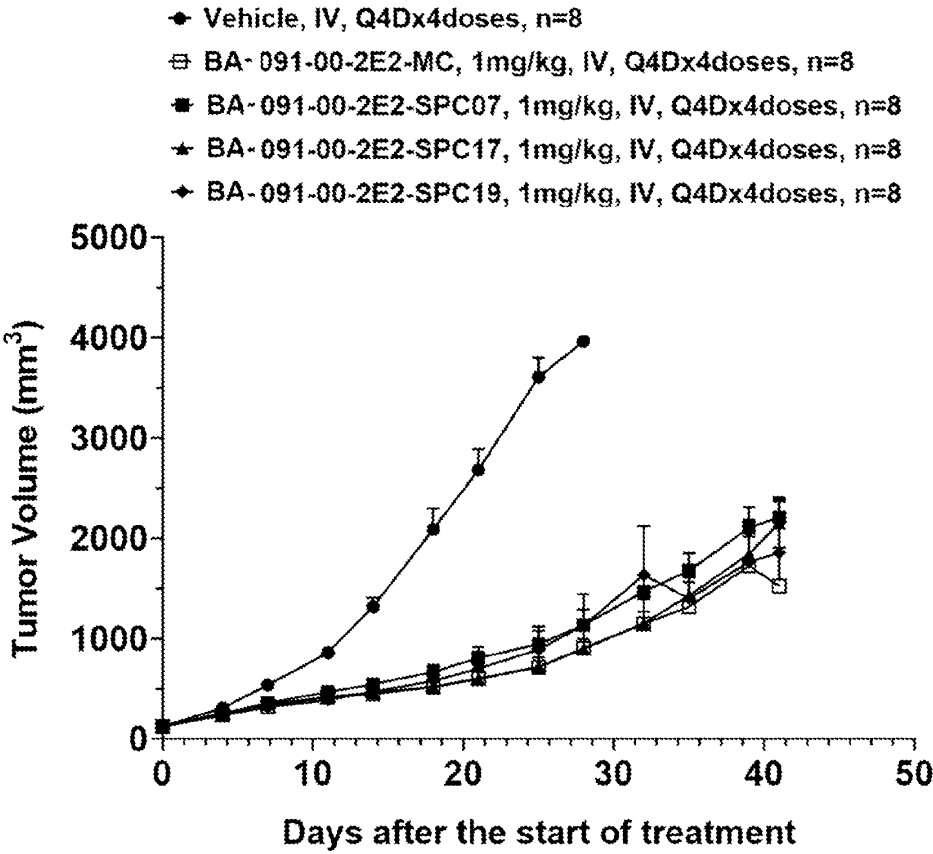


FIG. 6A

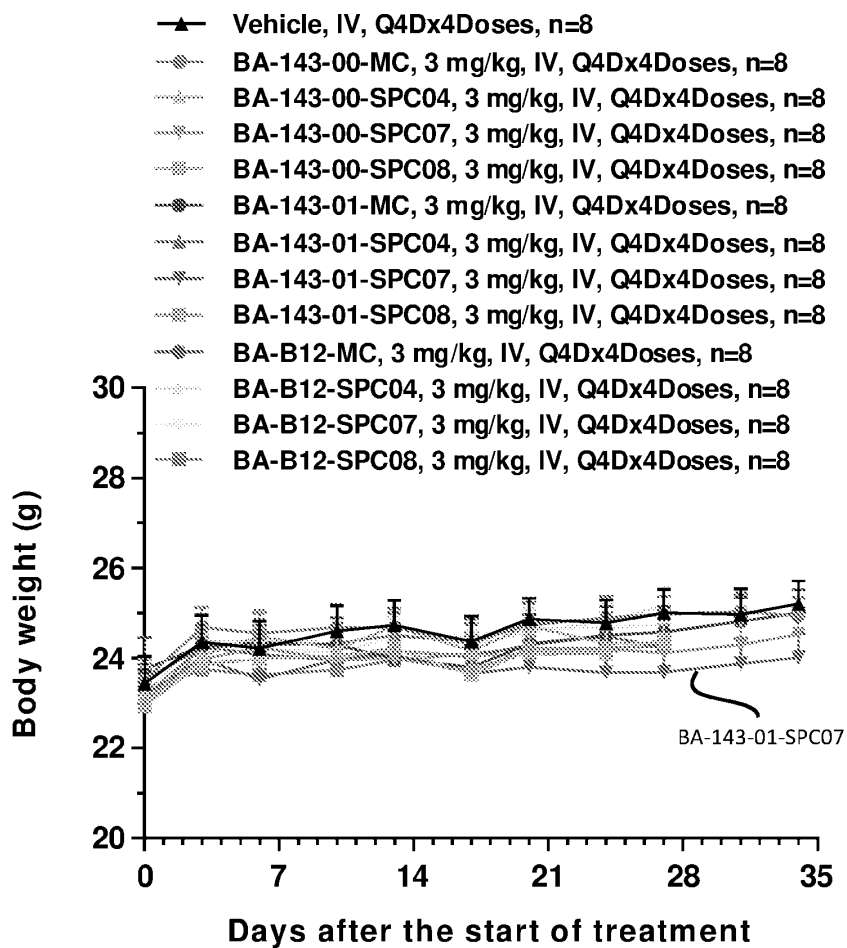


FIG. 6B

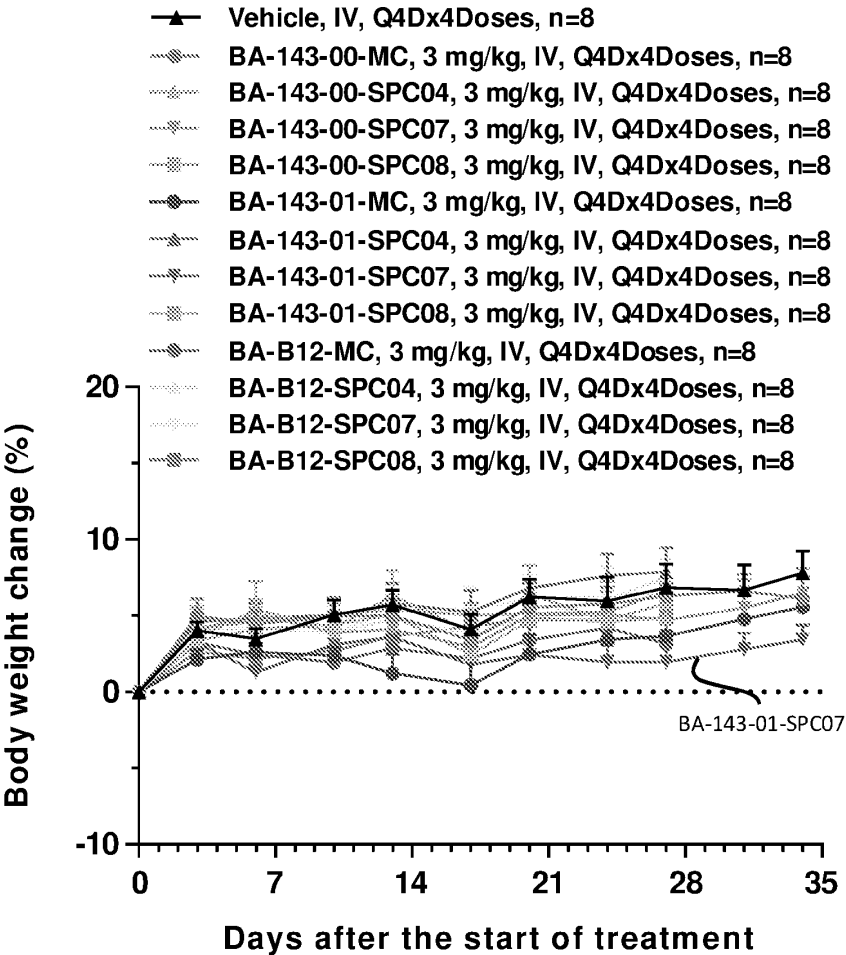


FIG. 7

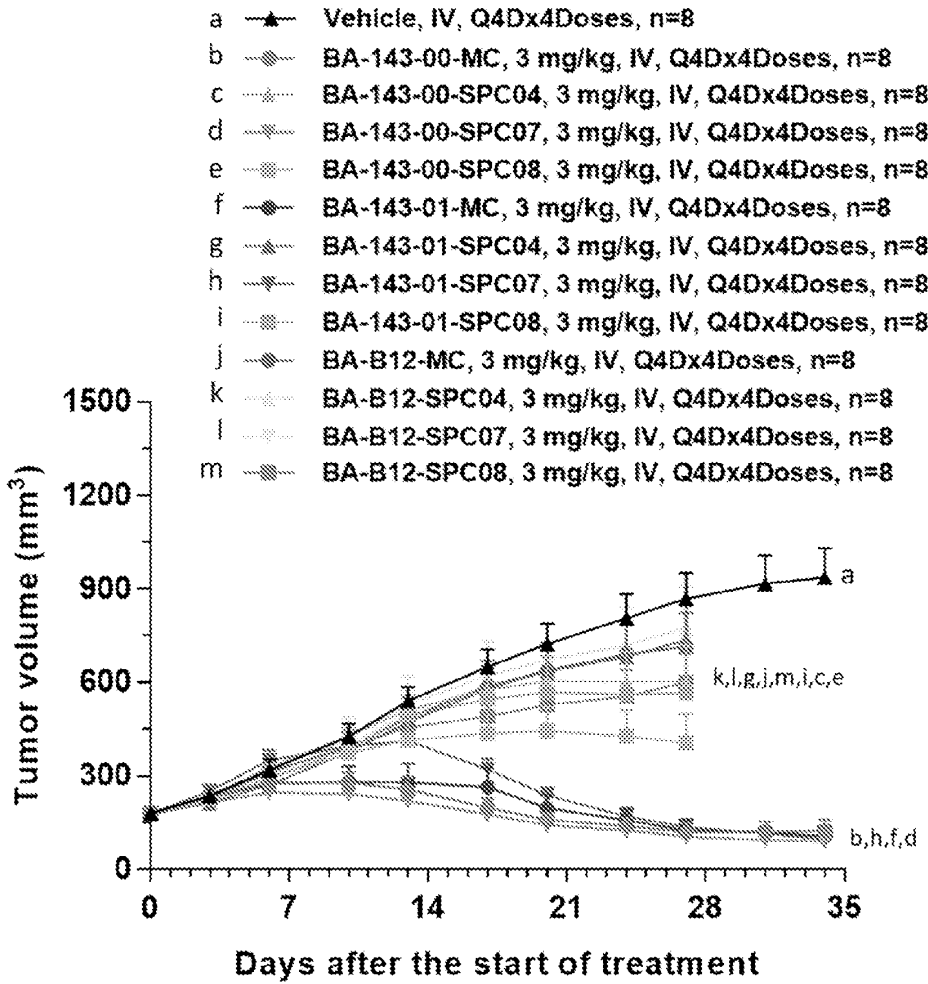


FIG. 8A

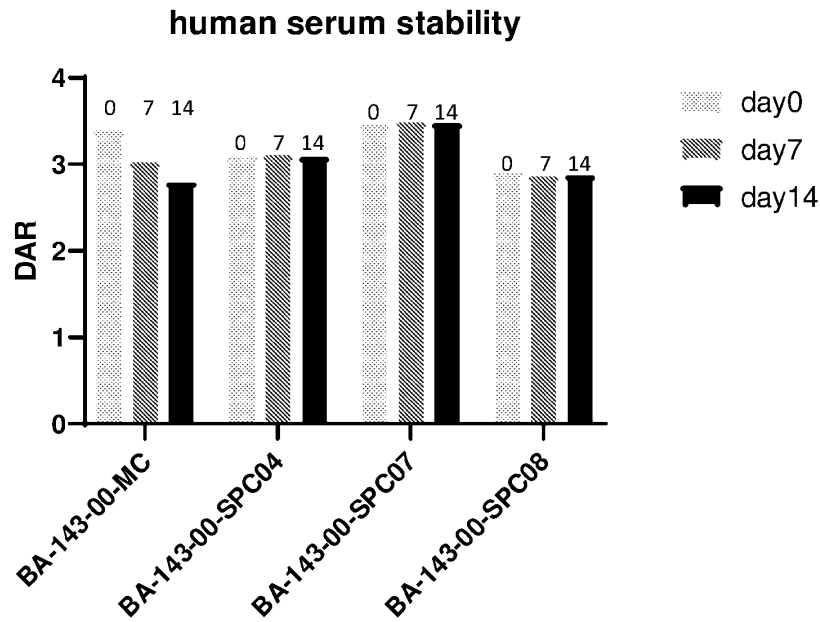


FIG. 8B

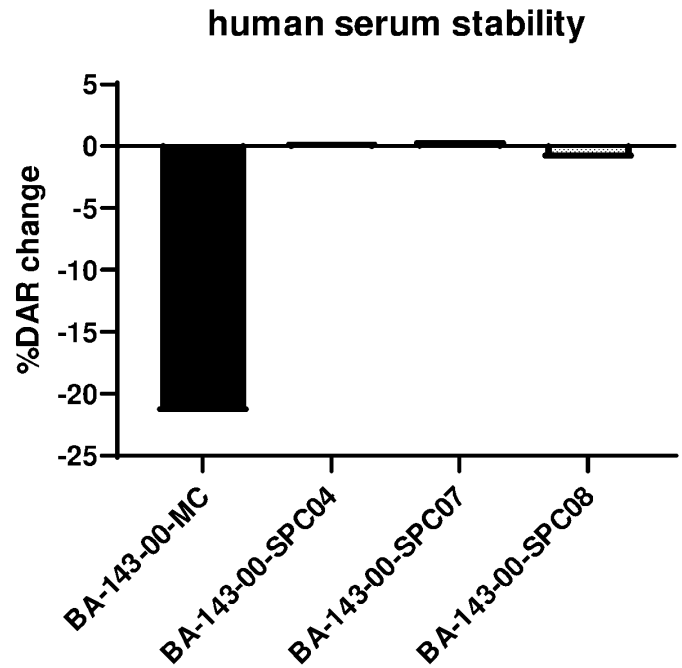


FIG. 9A

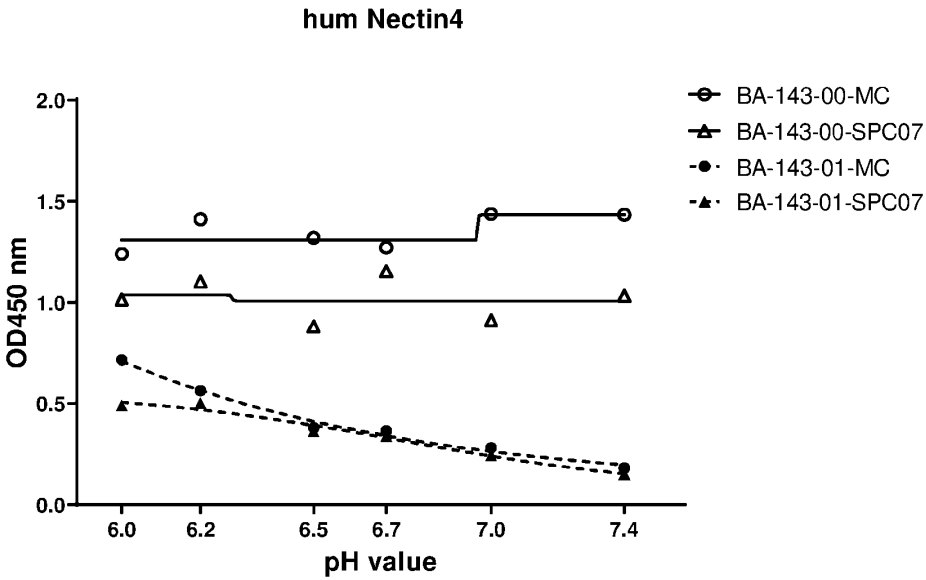


FIG. 9B

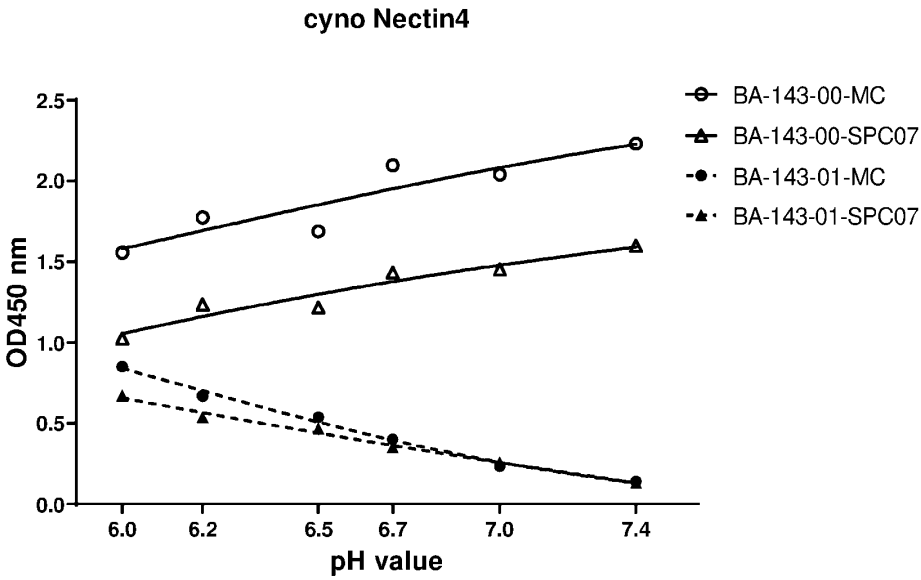


FIG. 10A

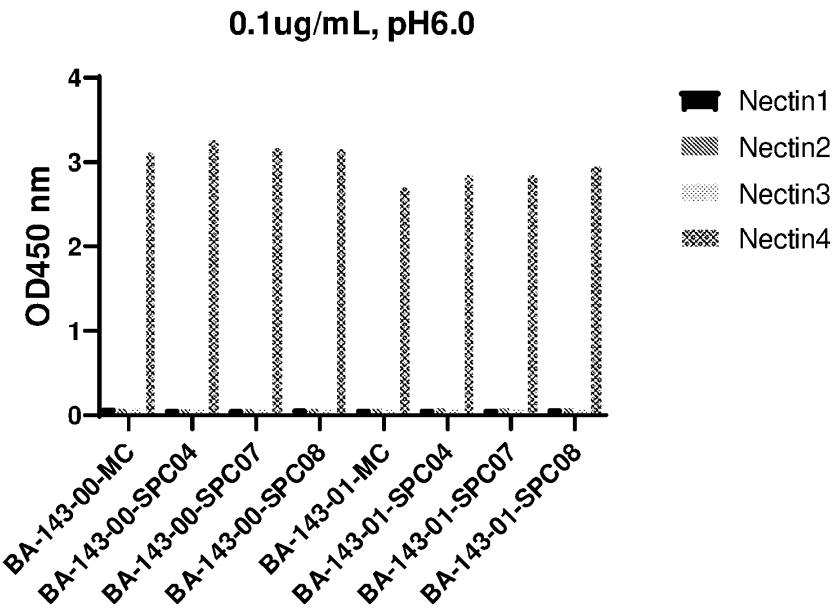


FIG. 10B

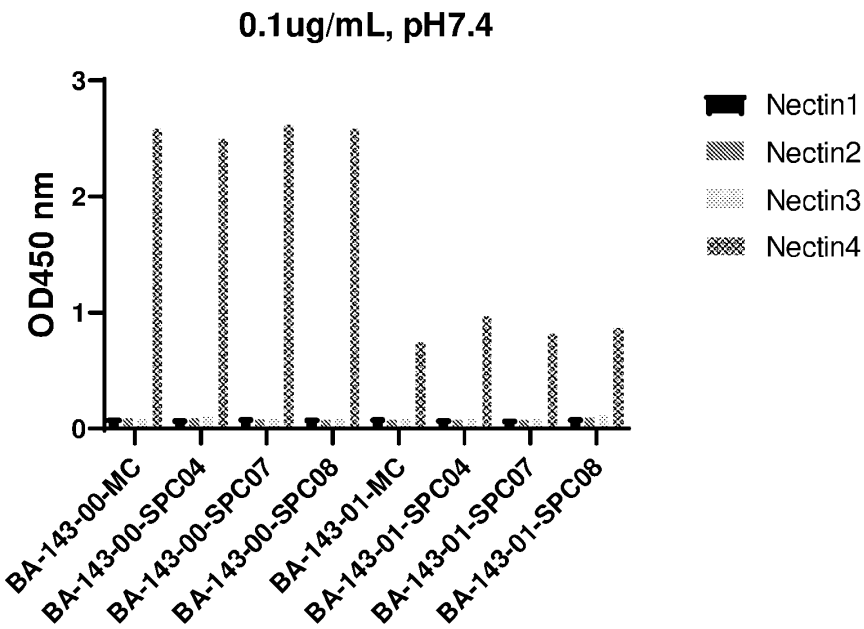


FIG. 11A

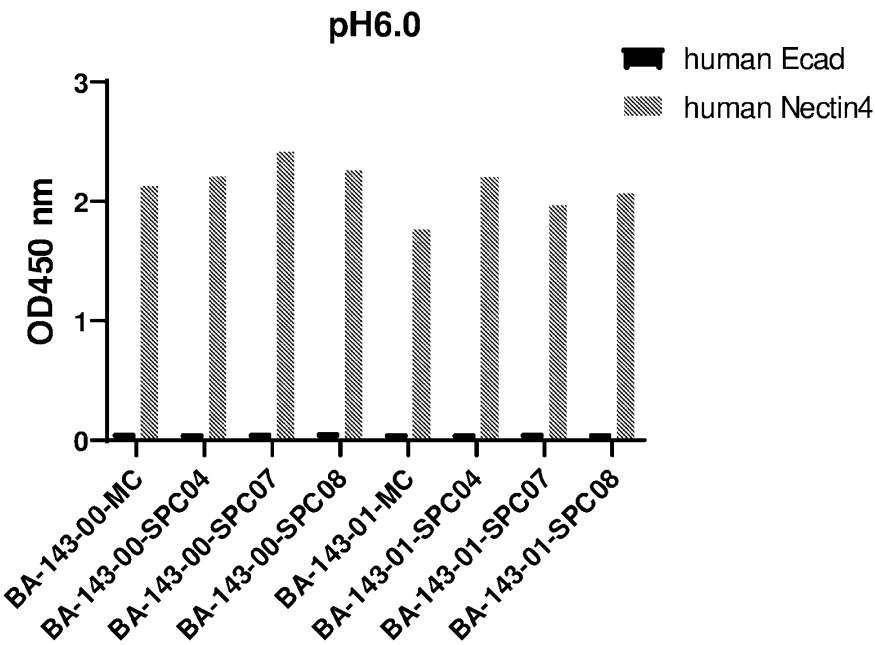


FIG. 11B

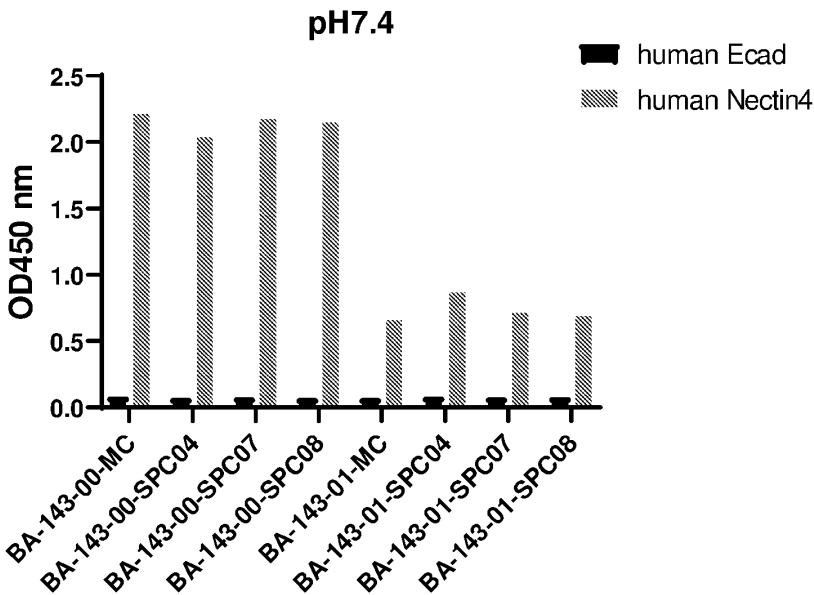


FIG. 12A

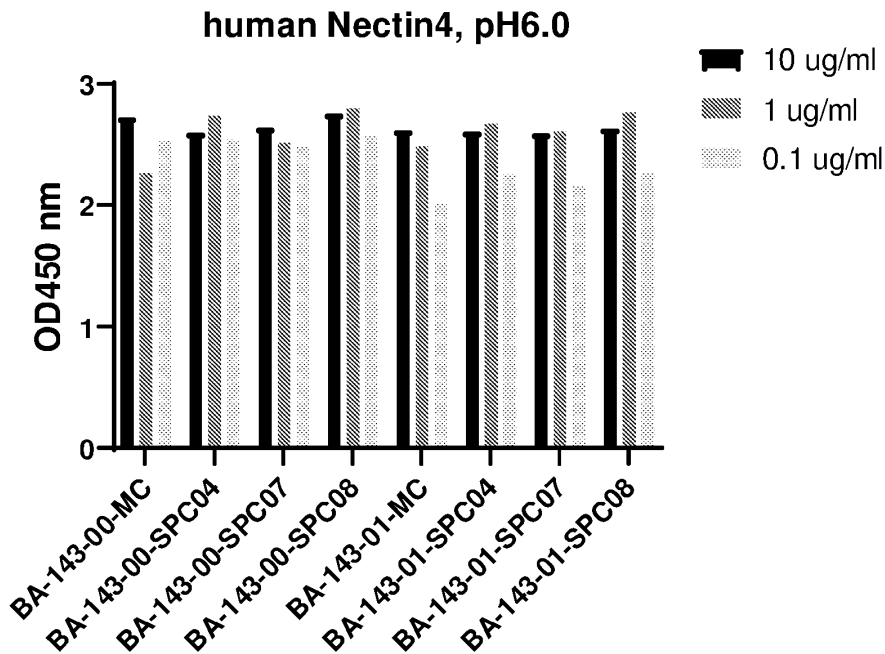


FIG. 12B

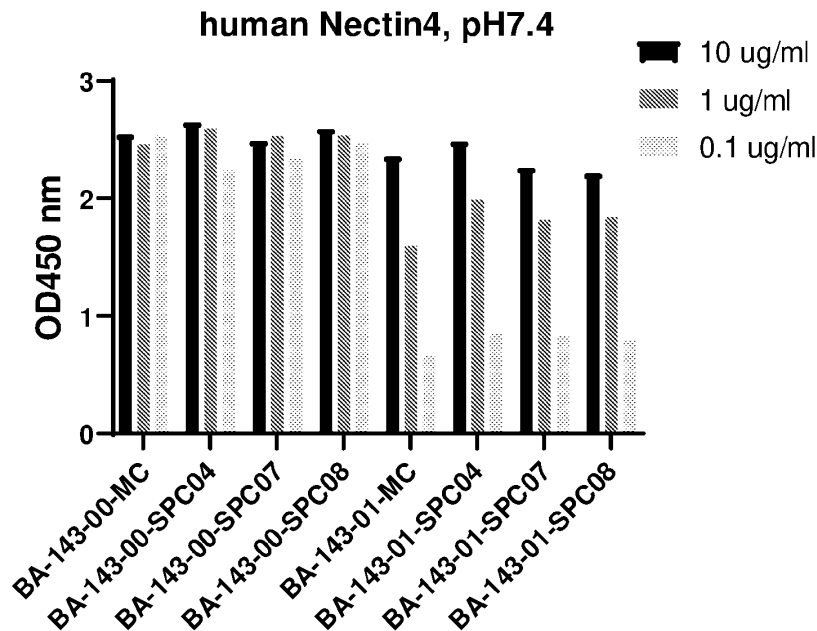


FIG. 13

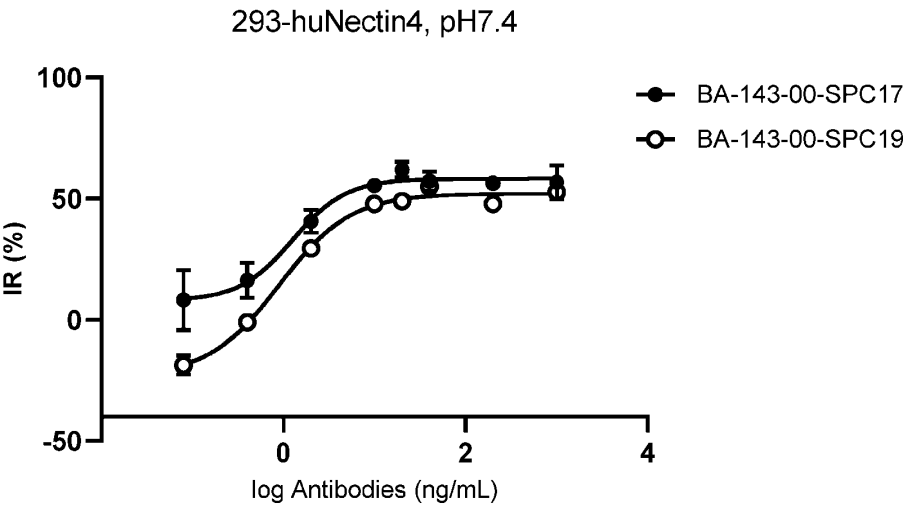


FIG. 14A

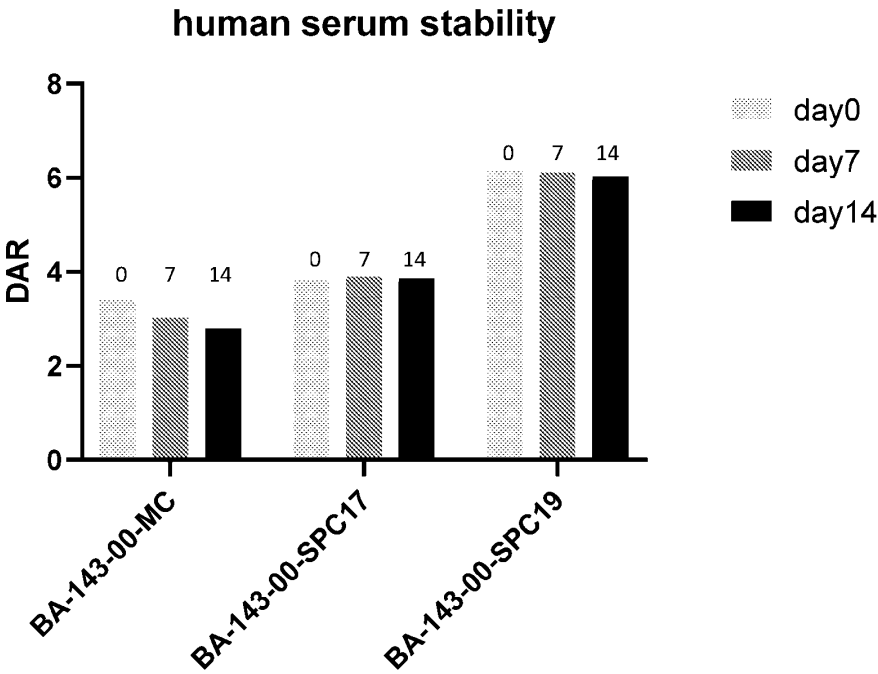


FIG. 14B

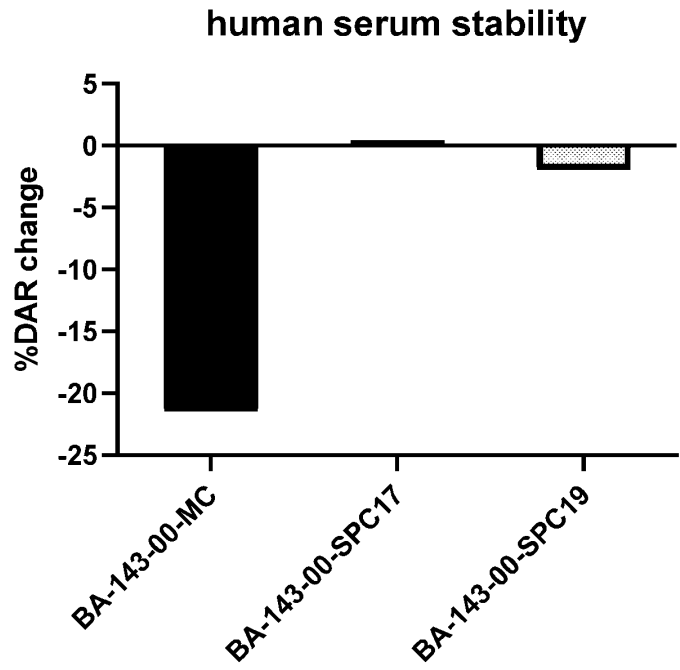
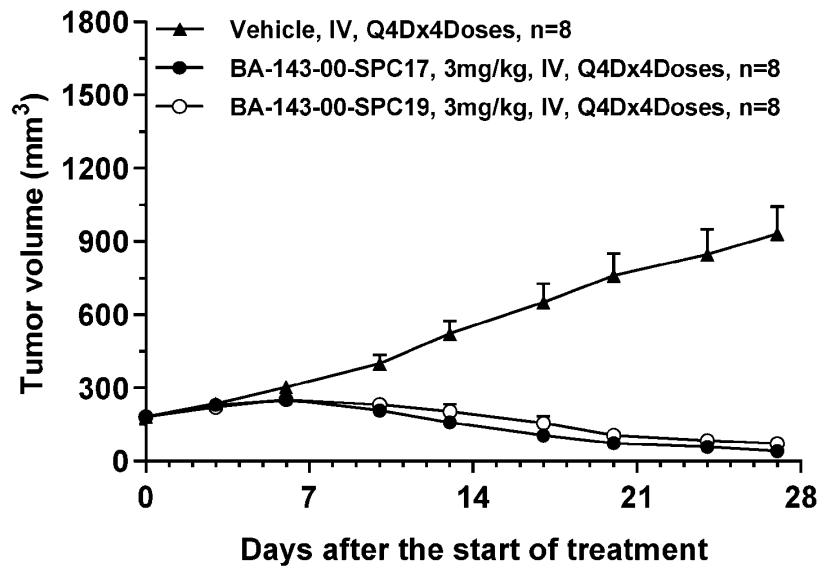


FIG. 15A



Body weight change (%)

Vehicle, IV, Q4Dx4Doses, n=8

BA-143-00-SPC17, 3mg/kg, IV, Q4Dx4Doses, n=8

BA-143-00-SPC19, 3mg/kg, IV, Q4Dx4Doses, n=8

Days after the start of treatment

Days after the start of treatment	Vehicle, IV, Q4Dx4Doses, n=8	BA-143-00-SPC17, 3mg/kg, IV, Q4Dx4Doses, n=8	BA-143-00-SPC19, 3mg/kg, IV, Q4Dx4Doses, n=8
0	0	0	0
3	4	4	2
7	4	4	3
11	5	5	3
14	4	5	4
18	2	6	2
21	5	9	4
25	3	8	3
28	7	9	5

The graph displays the mean body weight (g) of rats across different treatment groups over a period of 28 days. The y-axis ranges from 20 to 28 g, and the x-axis shows days after treatment start at 0, 7, 14, 21, and 28. All groups show a general increase in weight over time, with some fluctuations. Error bars represent standard deviation.

Treatment Group	Day 0	Day 3	Day 6	Day 9	Day 12	Day 15	Day 18	Day 21	Day 24	Day 27
Vehicle, IV, Q4Dx4Doses, n=8	~21.6	~22.6	~22.6	~22.8	~22.5	~22.3	~22.9	~22.8	~22.6	~23.3
BA-143-00-SPC07, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC14, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC15, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC16, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC17, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC18, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC19, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4
BA-143-00-SPC20, 3mg/kg, IV, Q4Dx4Doses, n=8	~21.6	~22.4	~22.6	~22.8	~22.6	~22.4	~23.0	~22.9	~22.7	~23.4

FIG. 16B

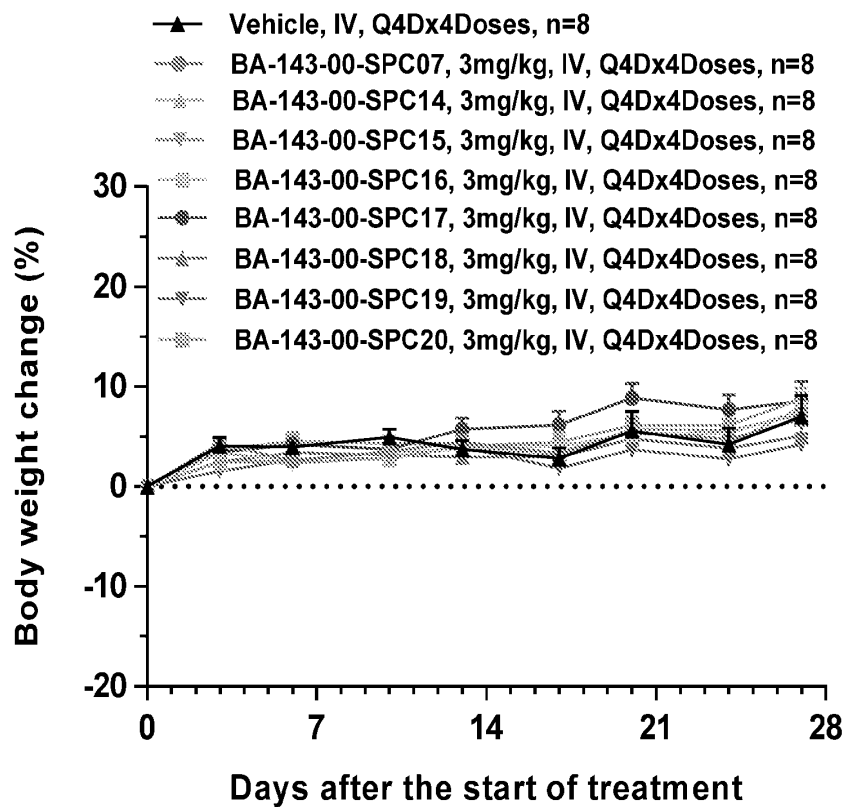


FIG. 16C

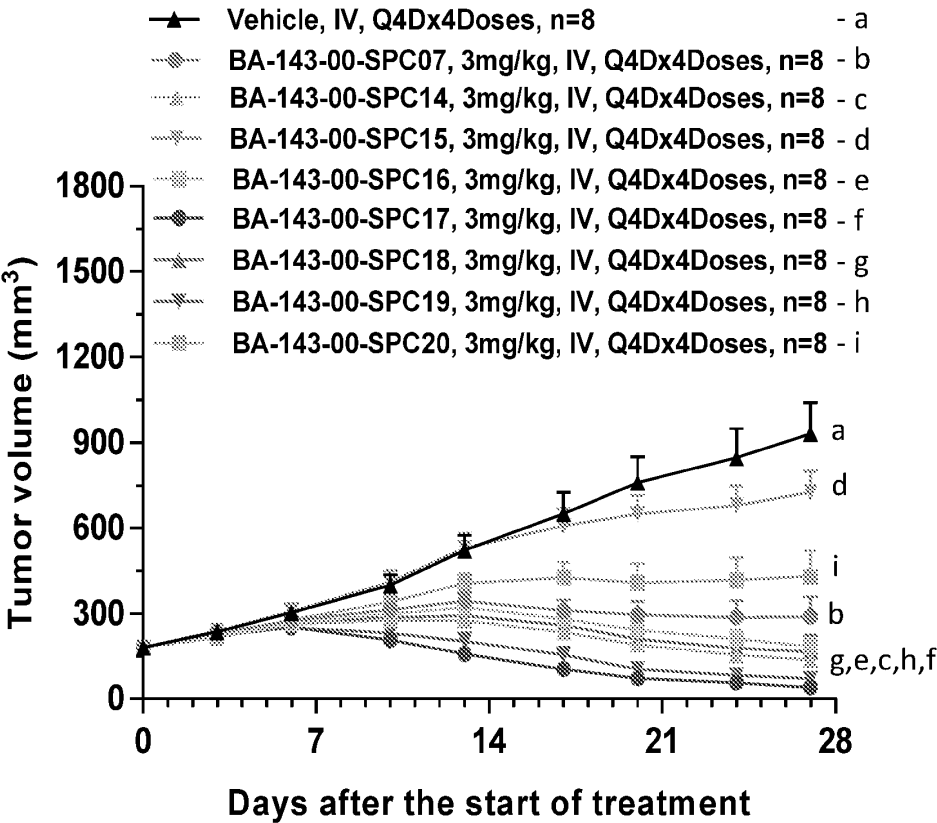


FIG. 17

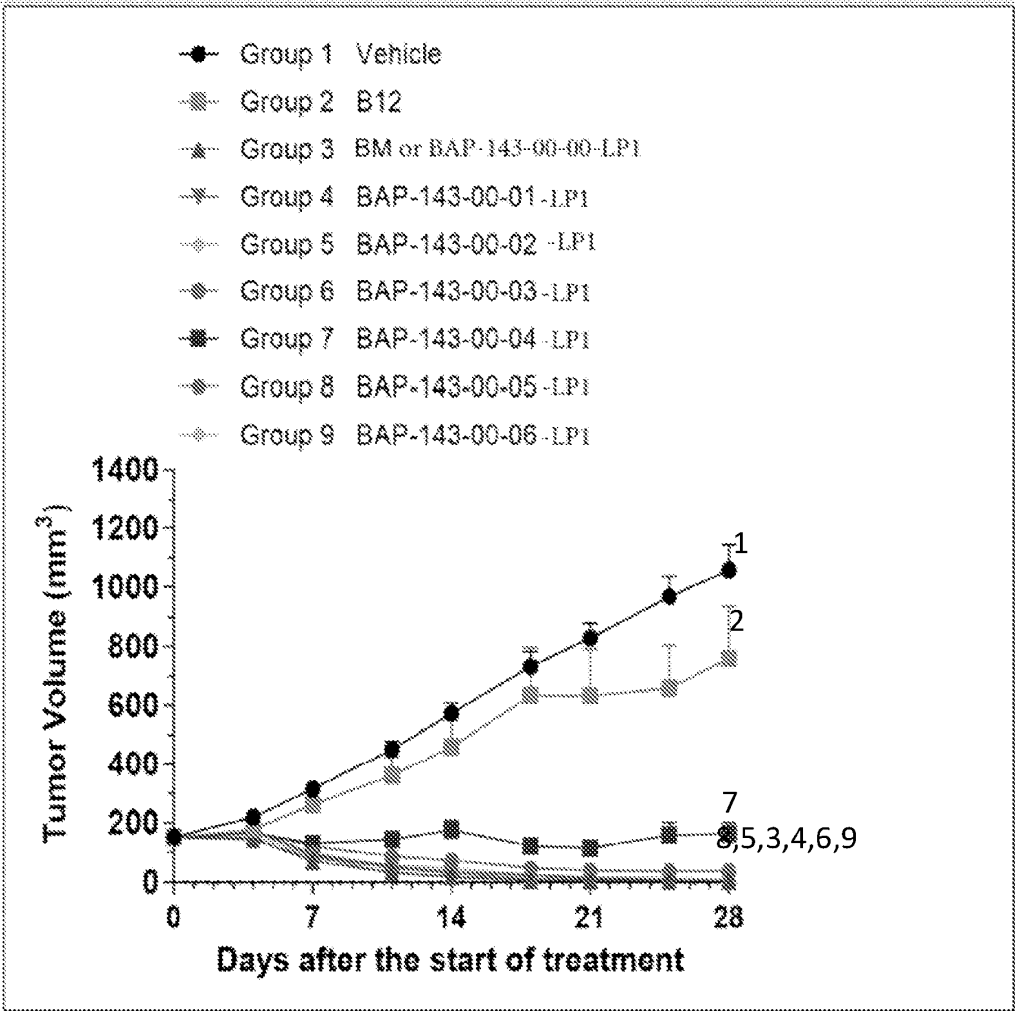


FIG. 18

BAP143-VK-wildtype DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTTFGG
GIKVEIK... (SEQ ID NO: 31)

BAP143-VH-wild type EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSF ISSSSSTIYY ADSVKGRTII SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 18)

Fig. 18 (continued)

BA-143-00-01-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 32)

BA-143-00-01-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 19)

BA-143-00-02-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 33)

BA-143-00-02-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 20)

BA-143-00-03-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 34)

BA-143-00-03-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 21)

BA-143-00-04-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 35)

BA-143-00-04-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNDNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 22)

BA-143-00-05-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 36)

BA-143-00-05-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCAEAY
YYGMDVWGQG TTVTVSS (SEQ ID NO: 23)

BA-143-00-06-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 37)

BA-143-00-06-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDPAKNSLS LQMNSLRDED TAVYYCARAY
YYGDDVWGQG TTVTVSS (SEQ ID NO: 24)

BA-143-06-24-16-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPPTFGG
GTKVEIK... (SEQ ID NO: 38)

BA-143-06-24-16-VH EVQLVQSGAE VKKPGATVKI SCKVSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDPAKNTLY LQMNSLRAED TAVYYCARAY
YYGDDVWGQG TLTVTVSS (SEQ ID NO: 25)

Fig. 18 (continued)

BA-143-06-33-04-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSEPPTFGG
GTKVEIK... (SEQ ID NO: 39)

BA-143-06-33-04-VH QVQLVQSGAE VKKPGASVKV SCKASGFTFS SYNMNWVRQA
RGQRLEWIGY ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YYGMDKWGQG TLVTVSS (SEQ ID NO: 26)

BA-143-06-33-16-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... (SEQ ID NO: 40)

BA-143-06-33-16-VH EVQLVQSGAE VKKPGATVKI SCKVSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YYGDDVWGQG TLVTVSS (SEQ ID NO: 27)

BA-143-06-96-09-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... (SEQ ID NO: 41)

BA-143-06-96-09-VH EVQLVQSGAE VKKPGESLRI SCKGSGFTFS SYNMNWIRQS
PSRGLEWLG Y ISSSSSTIYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCARAY
YYGMDKWGQG TLVTVSS (SEQ ID NO: 28)

BAP-143-07-03-12-VK DIQMTQSPSS VSASVGDRVT ITCRASQGIS GWEAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... (SEQ ID NO: 42)

BAP-143-07-03-12-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDNAKNSLS LQMNSLRDED TAVYYCARAY
YYGMDKWGQG TTVTVSS (SEQ ID NO: 29)

BAP-143-07-11-06-VK DIQMTQSPSS VSASVGDRVT ITCHASQGIS GWLAWYQQKP
GKAPKFLIYA ASTLQSGVPS RFSGSGSGTD FTLTISSLQP EDFATYYCQQ ANSFPTFGG
GTKVEIK... (SEQ ID NO: 43)

BAP-143-07-11-06-VH EVQLVESGGG LVQPGGSLRL SCAASGFTFS SYNMNWVRQA
PGKGLEWVSY ISSSSSTIYY ADSVKGRFTI SRDNAKNSLS LQMNSLRDED TAVYYCARAY
YYGDDVWGQG TTVTVSS (SEQ ID NO: 30)

Fig. 19A

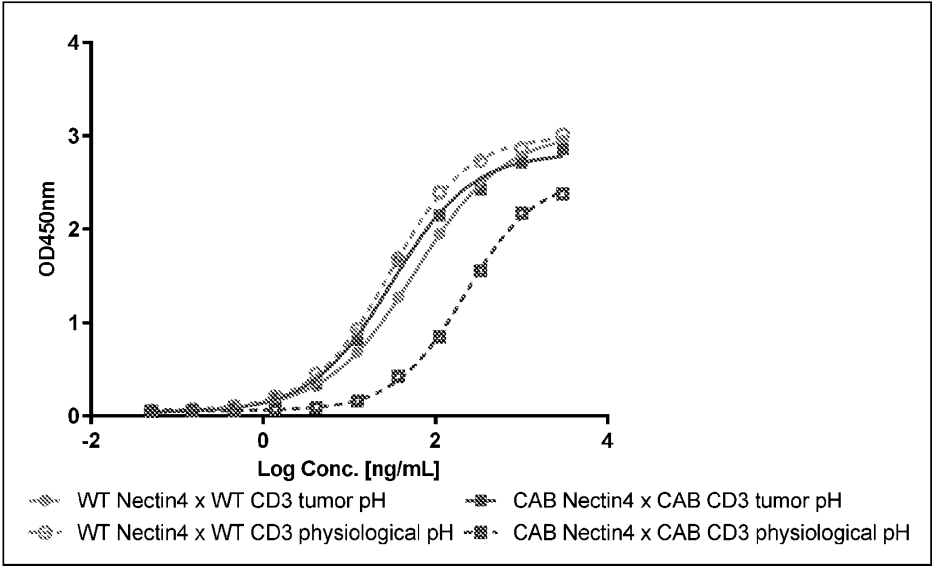


Fig. 19B

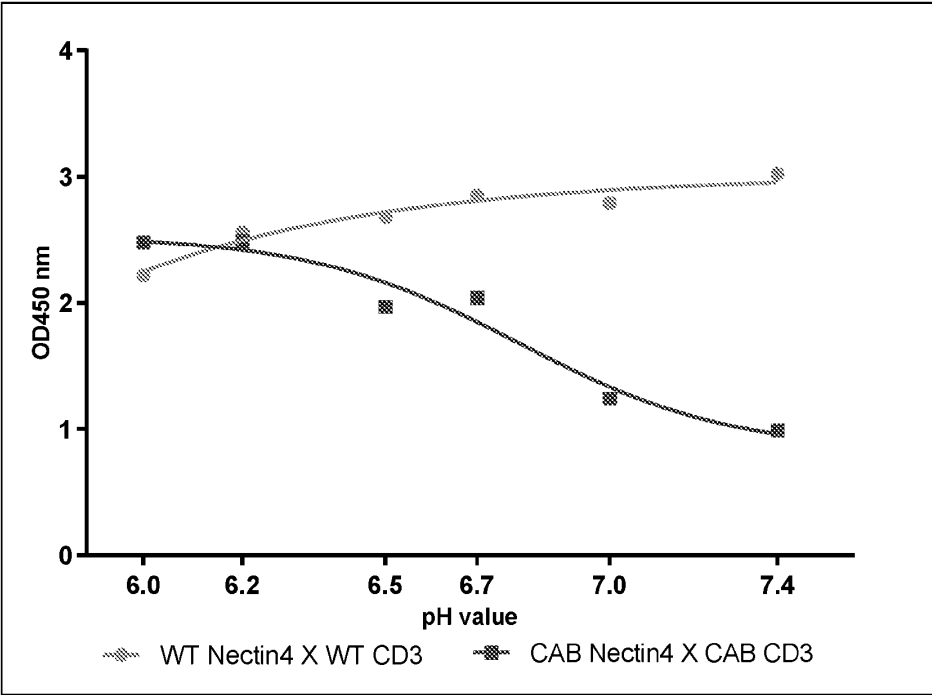


FIG. 19C

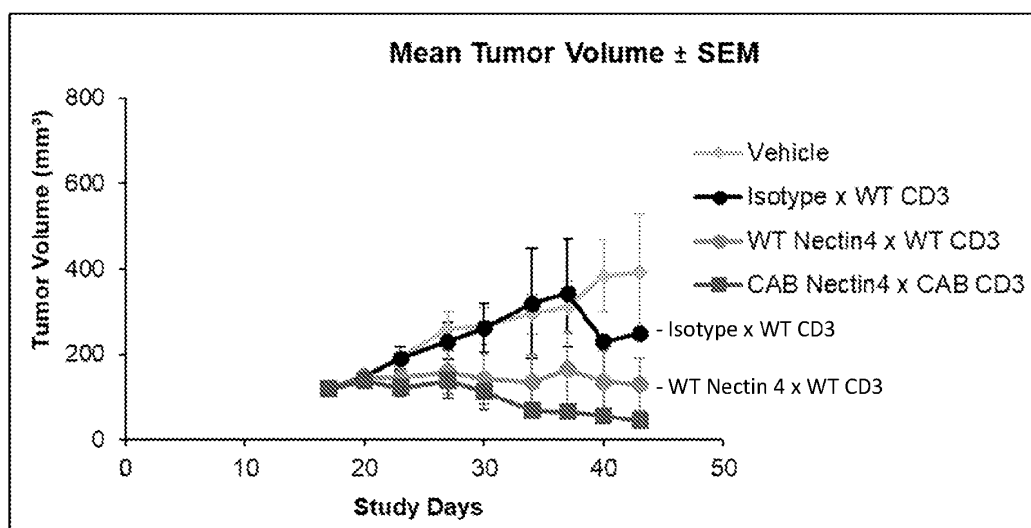


FIG. 20A

.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....
 10 20 30 40 50 60
BA-150-19-01-01-BF1-VH EVQLVESGGGLVQPGGSLRLSCAASGFTTSSYNNMWVRQAPGKGLEWVSYISSSSSTIYY
BA-150-30-33-16-BF11-VH Q..AEVKK..ATVKI..KV.....I..S.SR...LG.....
BA-150-30-33-16-BF19-VH Q..AEVKK..ATVKI..KV.....I..S.SR...LG.....
BA-150-30-03-12-BF11-VH
BA-150-30-03-12-BF19-VH

|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....
 70 80 90 100 110
BA-150-19-01-01-BF1-VH ADSVKGRFTISRDNAKNSLSLQMNSLRDEDTAVYYCARAYYYGMDVWGQGTTTVTSS
BA-150-30-33-16-BF11-VH S..T.Y.....A.....D.....L....
BA-150-30-33-16-BF19-VH S..T.Y.....A.....D.....L....
BA-150-30-03-12-BF11-VH K.....
BA-150-30-03-12-BF19-VH K.....

BA-150-19-01-01-BF1-VH = SEQ ID NO: 18
BA-150-30-33-16-BF11-VH = SEQ ID NO: 25
BA-150-30-33-16-BF19-VH = SEQ ID NO: 27
BA-150-30-03-12-BF11-VH = SEQ ID NO: 29
BA-150-30-03-12-BF19-VH = SEQ ID NO: 29

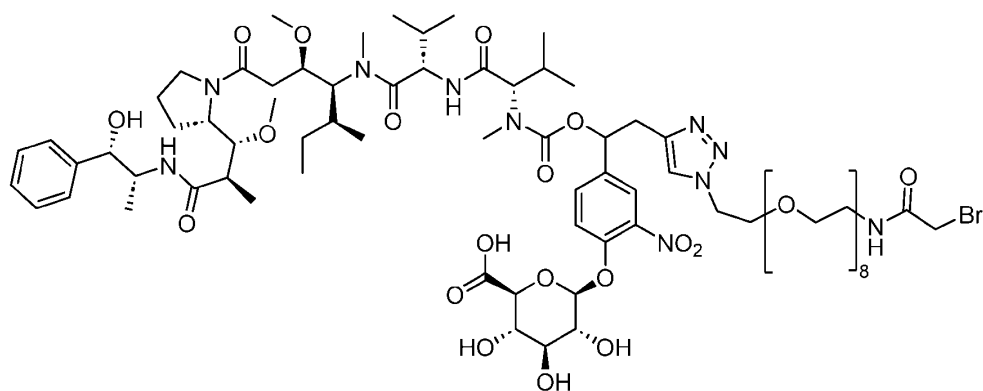
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FIG. 20B

	102030405060	
BA-150-19-01-01-BF1-LC	DIQMTQSPSSVSASVGDRTTITCRASQGISGWLAWYQOKPKAPKFLIYAASTLQSGVPS	
BA-150-30-33-16-BF11-LC	E.....	
BA-150-30-33-16-BF19-LC	E.....	
BA-150-30-03-12-BF11-LC	E.....	
BA-150-30-03-12-BF19-LC	E.....	
	708090100110120	
BA-150-19-01-01-BF1-LC	RFSGSGSGTDFTLTITSSLPEDFATYYCQANSFPPTFGGGTKVEIKRTVAAPSVFIFPP	
BA-150-30-33-16-BF11-LC	.....	
BA-150-30-33-16-BF19-LC	.....	
BA-150-30-03-12-BF11-LC	.....	
BA-150-30-03-12-BF19-LC	.....	
	130140150160170180	
BA-150-19-01-01-BF1-LC	SDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSYLSLT	
BA-150-30-33-16-BF11-LC	.....	
BA-150-30-33-16-BF19-LC	.....	
BA-150-30-03-12-BF11-LC	.....	
BA-150-30-03-12-BF19-LC	.....	
	190200210220230240	
BA-150-19-01-01-BF1-LC	LSKADYEKKHKVYACEVTHQGLSSPVTKSFNRGECRSRGGGGEVQLVESGGGLVQPGGSLR	
BA-150-30-33-16-BF11-LC	.....	
BA-150-30-33-16-BF19-LC	.....	
BA-150-30-03-12-BF11-LC	.....	
BA-150-30-03-12-BF19-LC	.....	
	250260270280290300	
BA-150-19-01-01-BF1-LC	LSCAASGFTFNTYAMNVRQAPGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKN	
BA-150-30-33-16-BF11-LC	.....	
BA-150-30-33-16-BF19-LC	.....	
BA-150-30-03-12-BF11-LC	.....	
BA-150-30-03-12-BF19-LC	.....	
	310320330340350360	
BA-150-19-01-01-BF1-LC	SLYLQMNSLKTEDTAVYYCVRHGNEFNSYVSWFAYWGQGLTVTVSSGGSGGSGGSGGSGG	
BA-150-30-33-16-BF11-LC	S.....K.....	
BA-150-30-33-16-BF19-LC	P.....K.....Q.....	
BA-150-30-03-12-BF11-LC	S.....K.....	
BA-150-30-03-12-BF19-LC	P.....K.....Q.....	
	370380390400410420	
BA-150-19-01-01-BF1-LC	QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPKQAPRGLIGGTNKRAPWT	
BA-150-30-33-16-BF11-LC	D.....	
BA-150-30-33-16-BF19-LC	D.....	
BA-150-30-03-12-BF11-LC	D.....	
BA-150-30-03-12-BF19-LC	D.....	
	430440450460470	
BA-150-19-01-01-BF1-LC	PARFSGSLLGGKAALTITGAQAEDEADYYCALWYNSNLWVFGGGTKLTVLSR	SEQ ID 56
BA-150-30-33-16-BF11-LC	.....	SEQ ID 57
BA-150-30-33-16-BF19-LC		SEQ ID 58
BA-150-30-03-12-BF11-LC		SEQ ID 59
BA-150-30-03-12-BF19-LC		SEQ ID 60

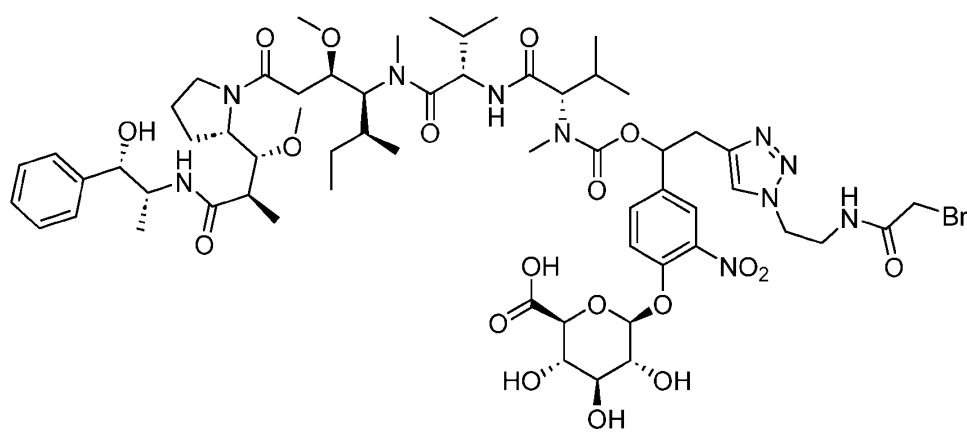
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FIG. 21A



SPC17

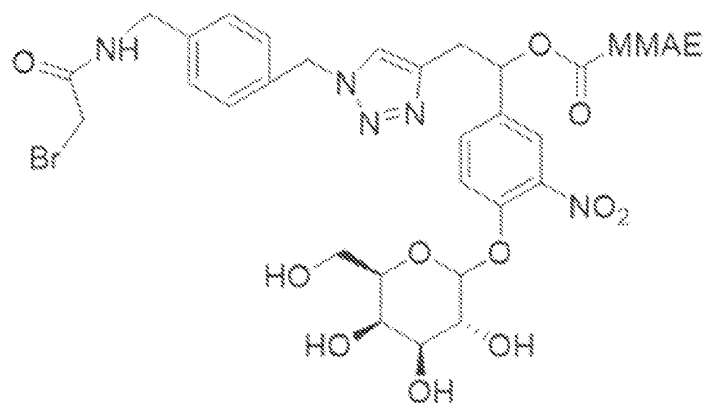
FIG. 21B



SPC19

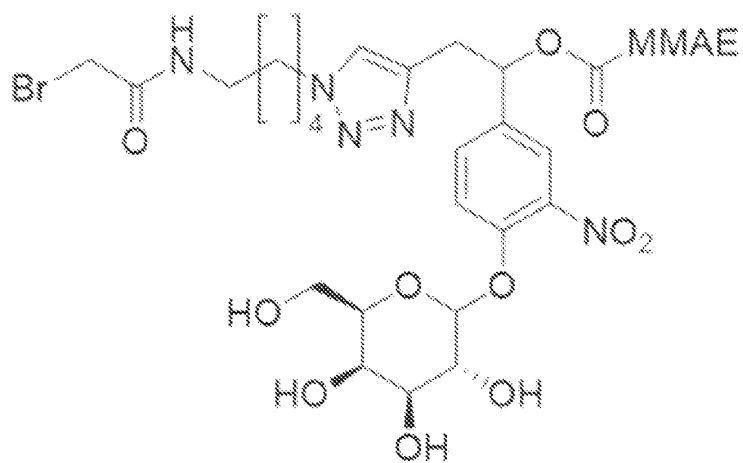
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FIG. 22A



SPC02

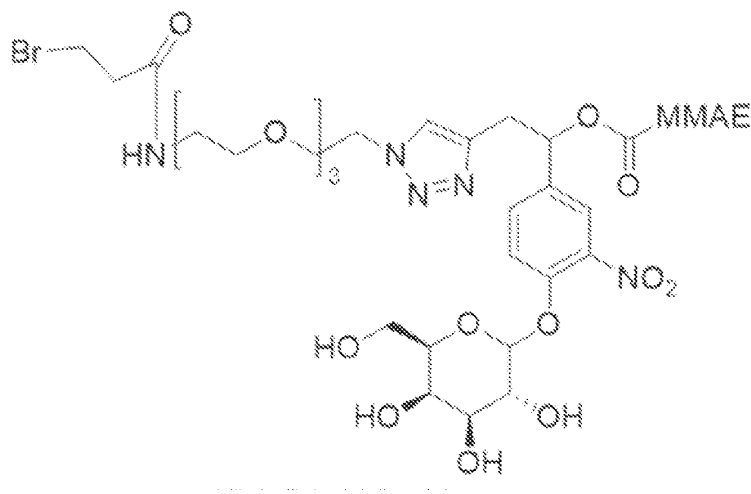
FIG. 22B



SPC04

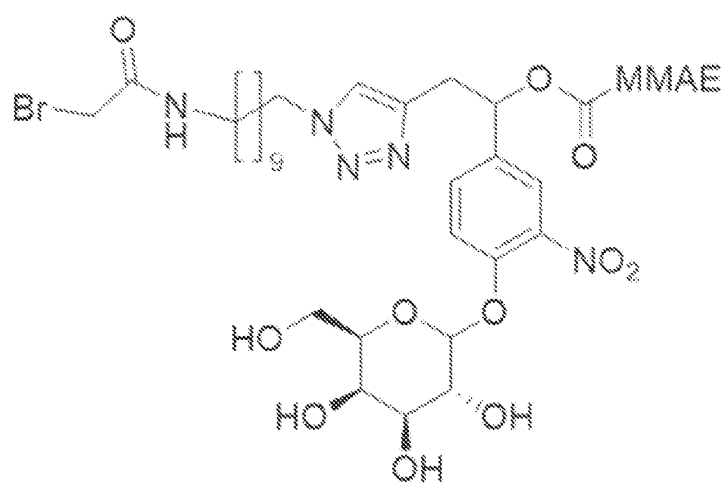
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FIG. 22C



SPC05

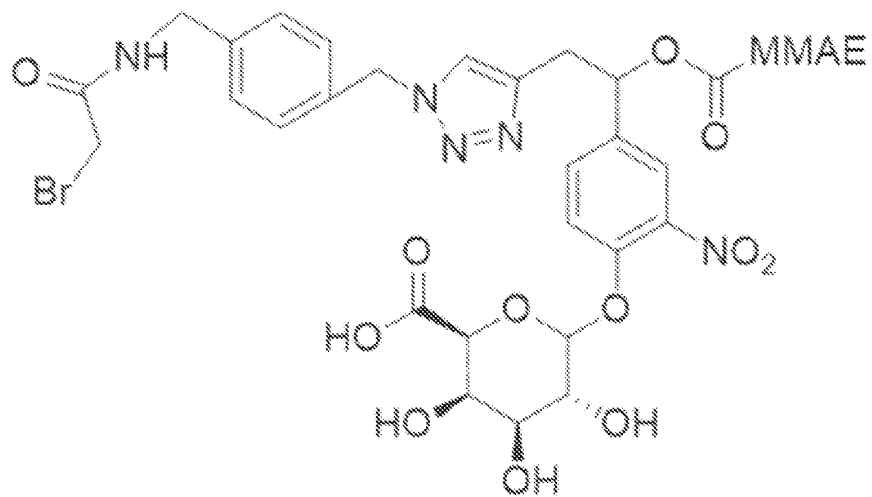
FIG. 22D



SPC06

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FIG. 22E



SPC08