

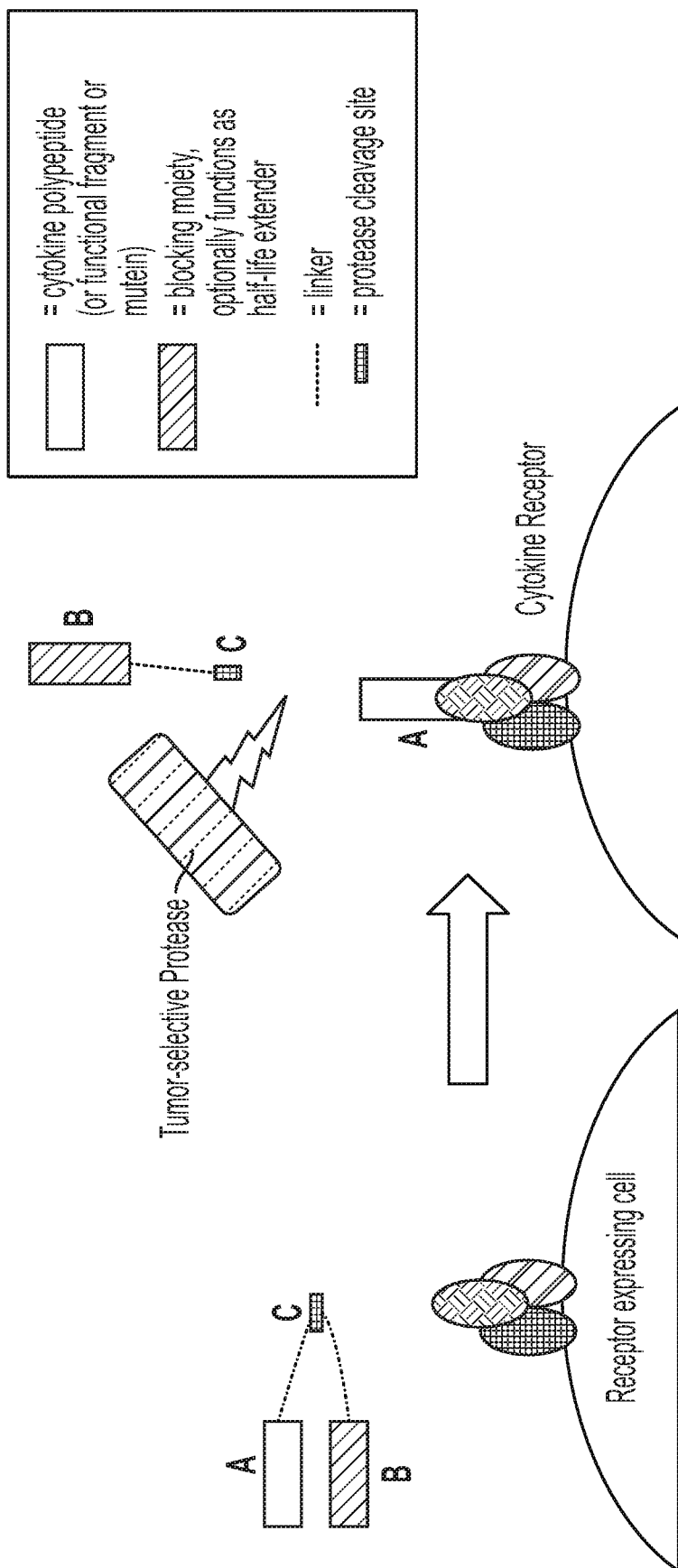


FIG. 1A

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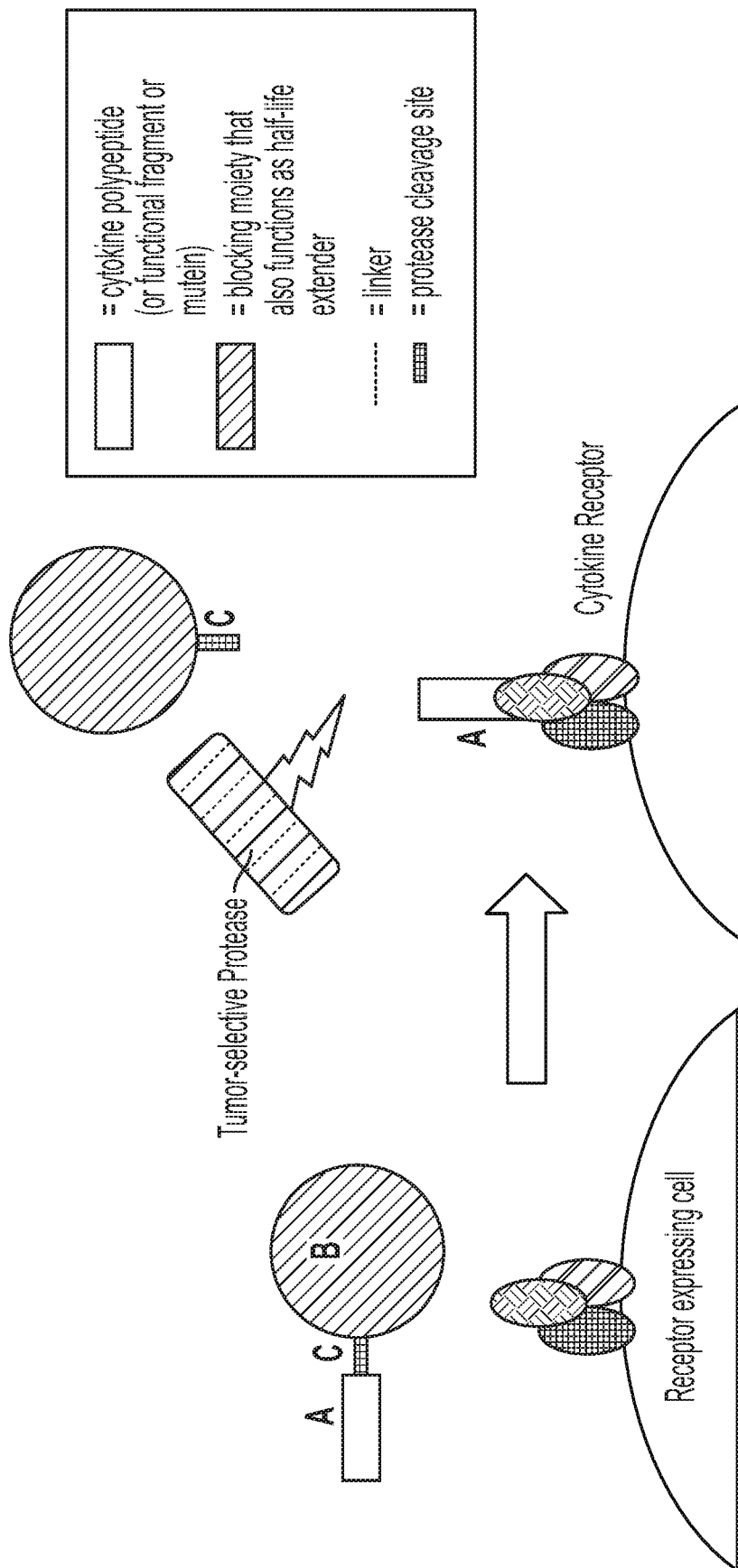


FIG. 1B

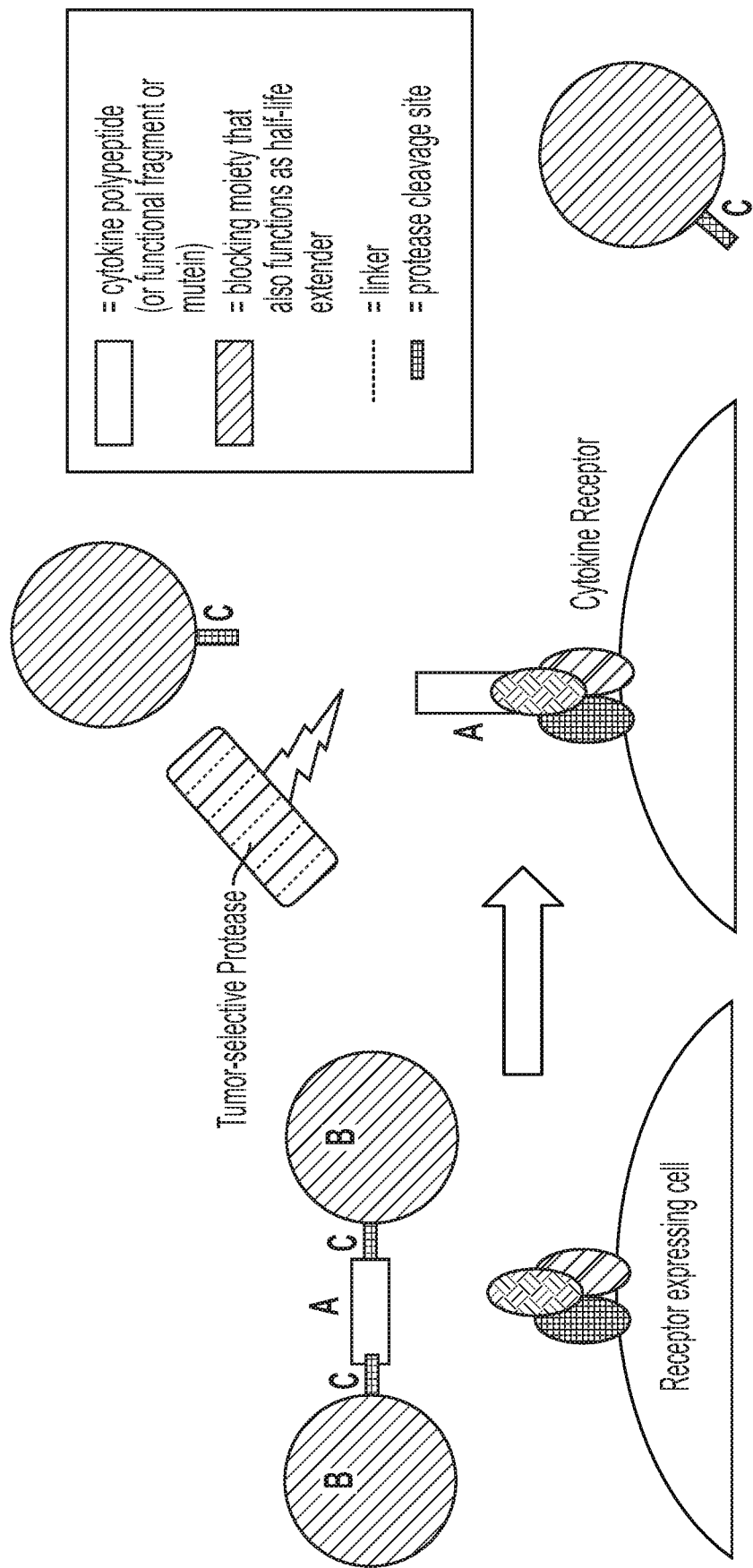


FIG. 1C

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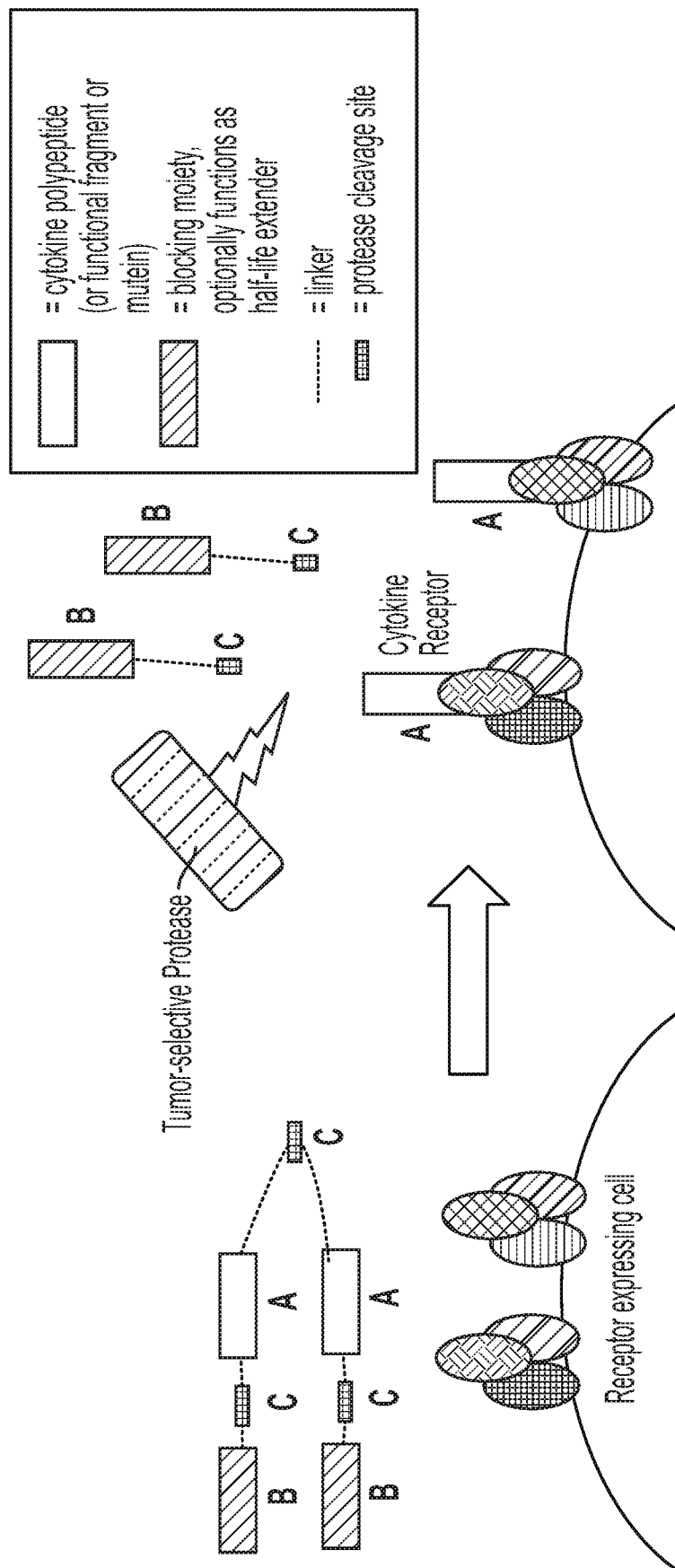


FIG. 1D

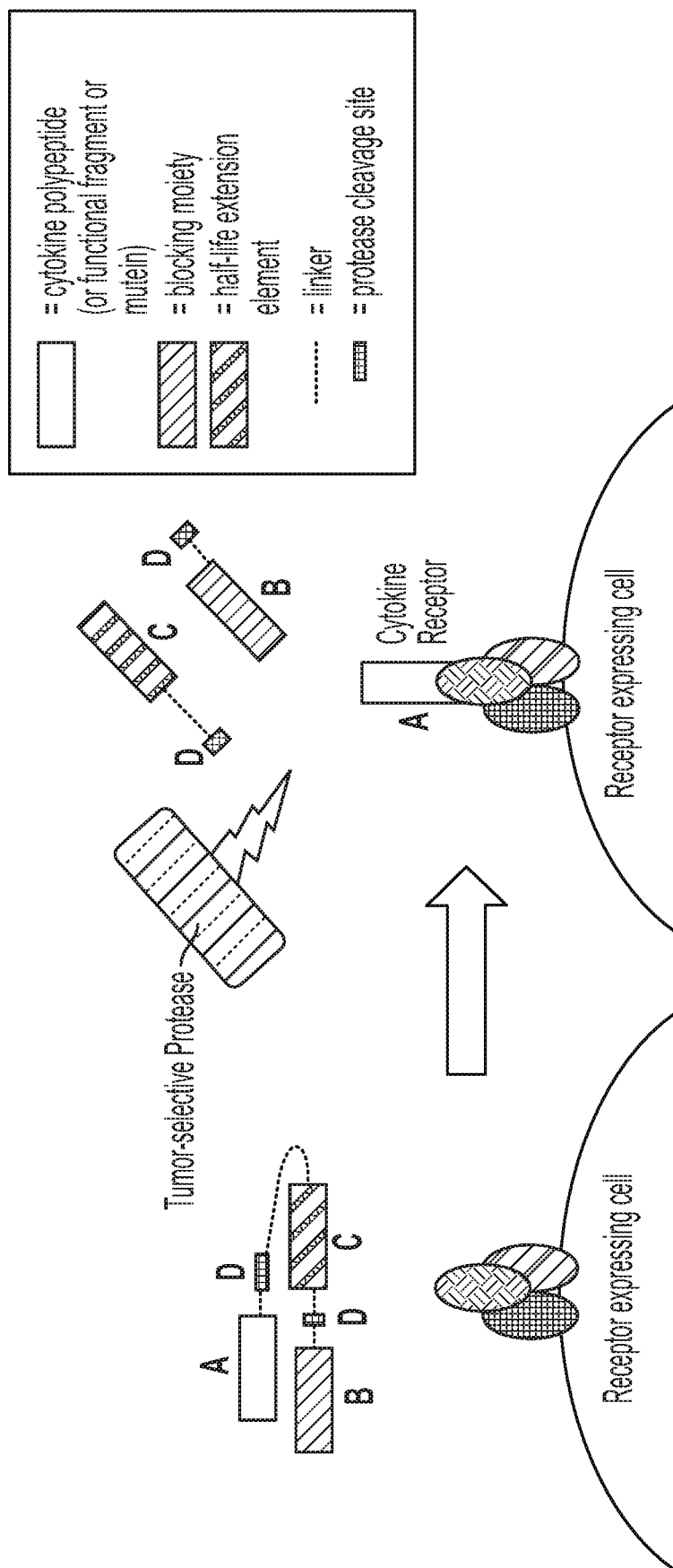


FIG. 2

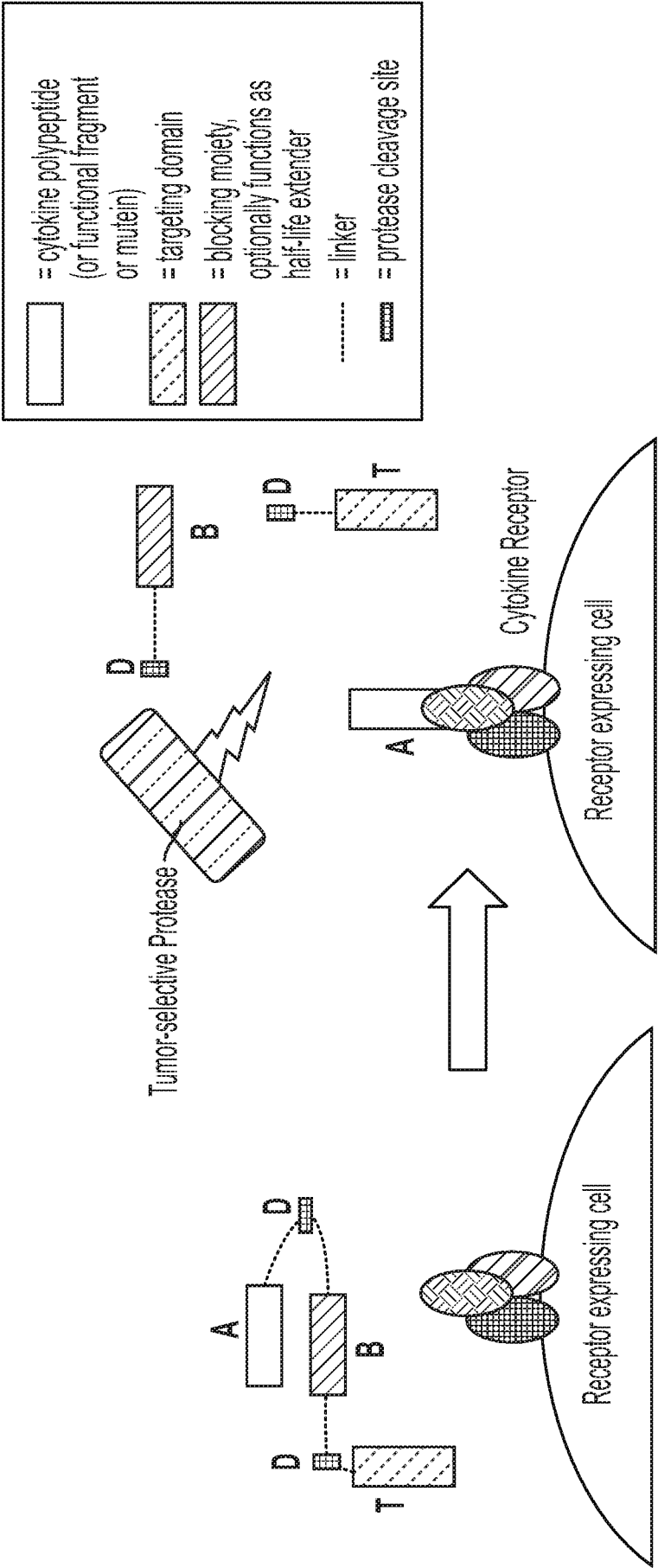


FIG. 3

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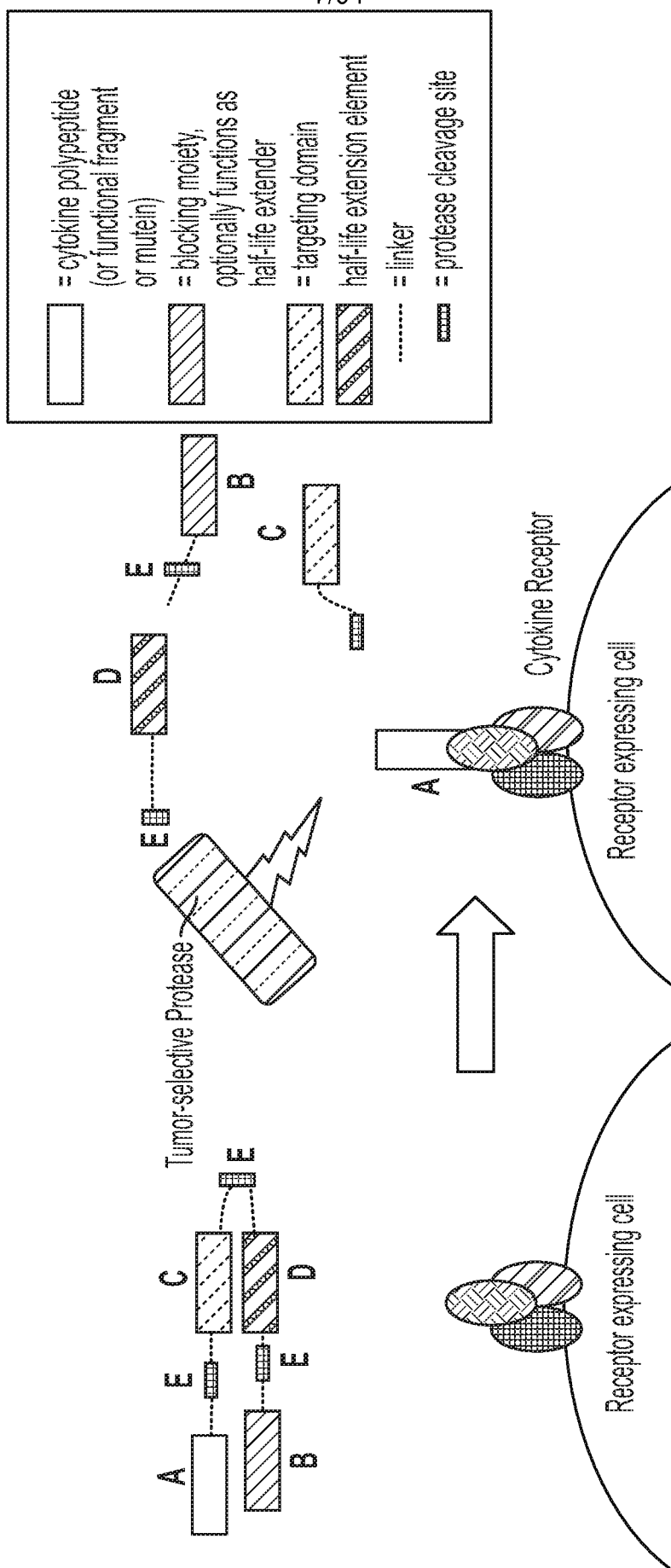


FIG. 4A

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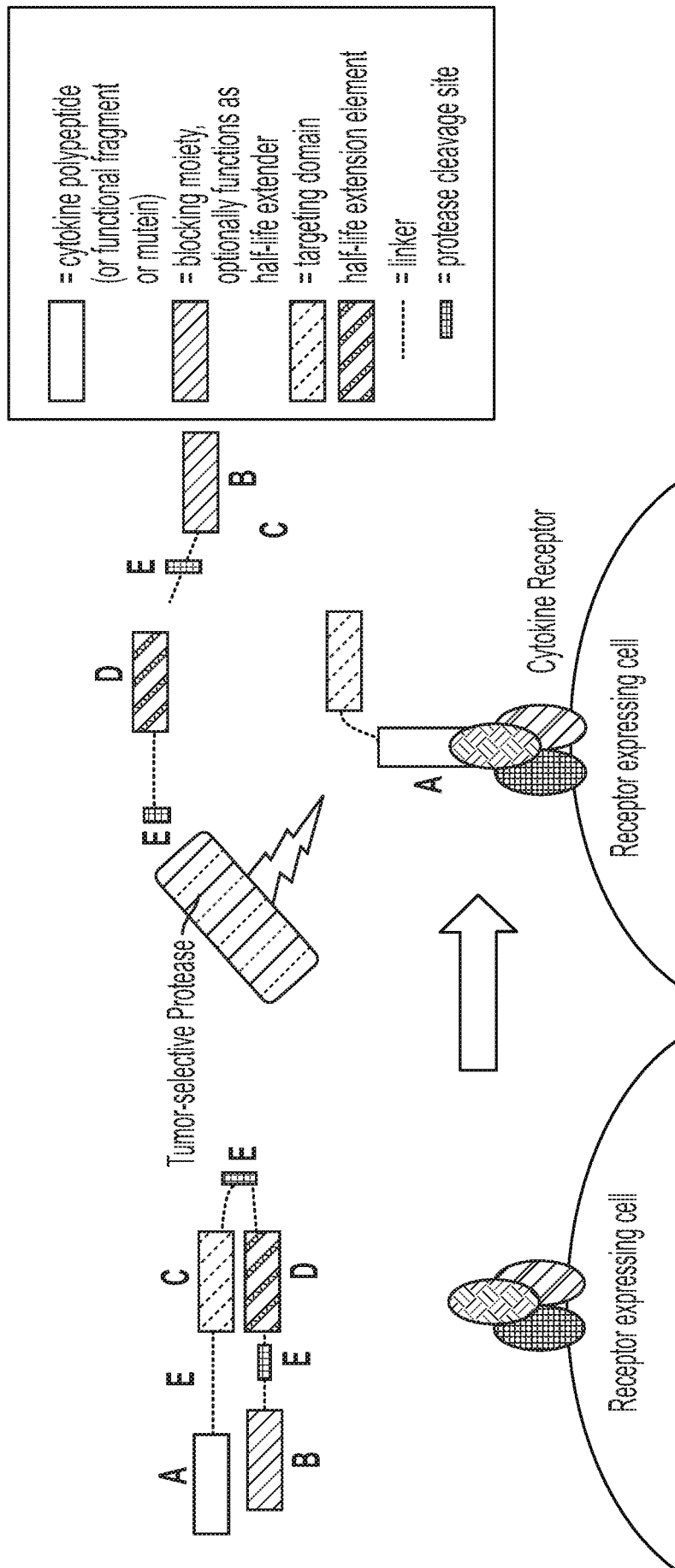
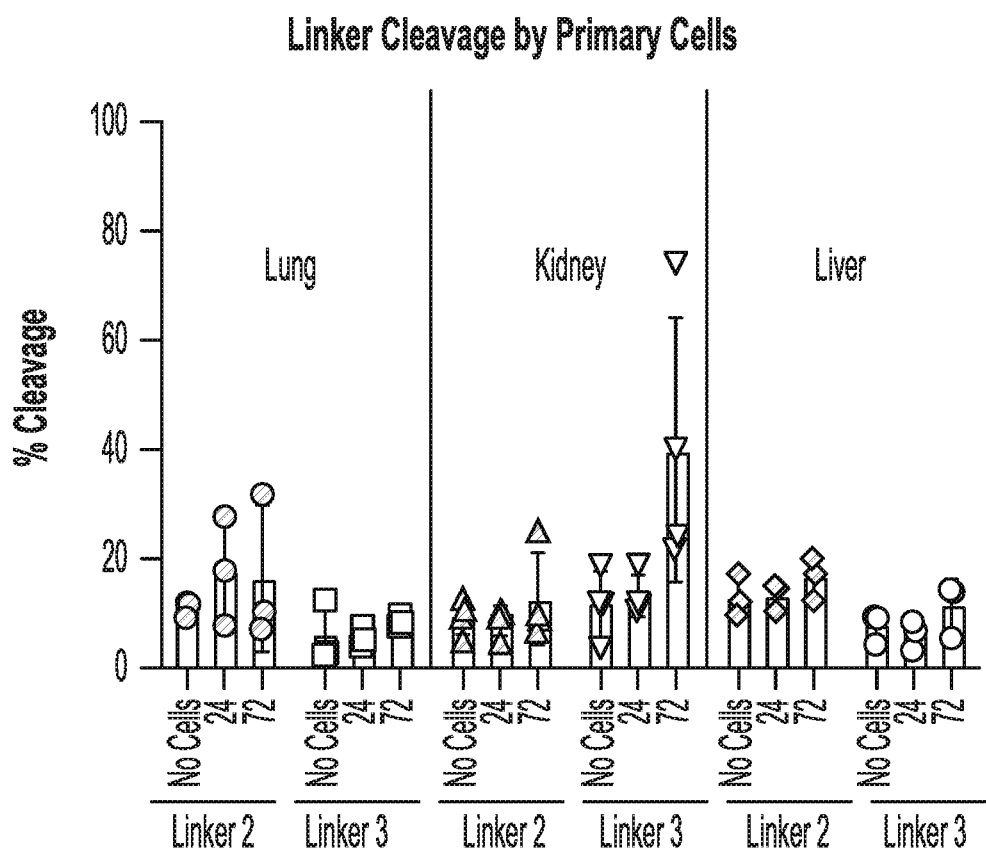


FIG. 4B

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**FIG. 5**

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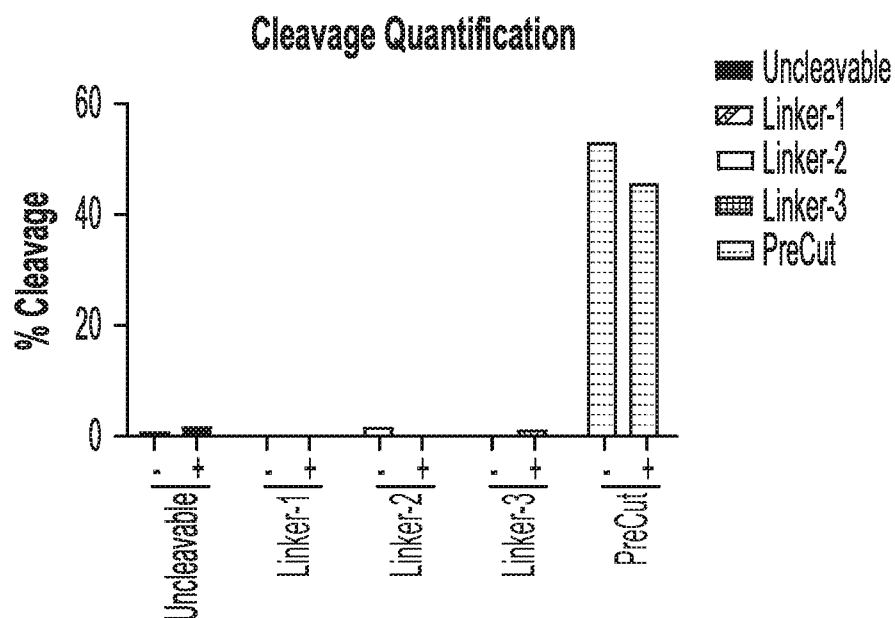


FIG. 6A

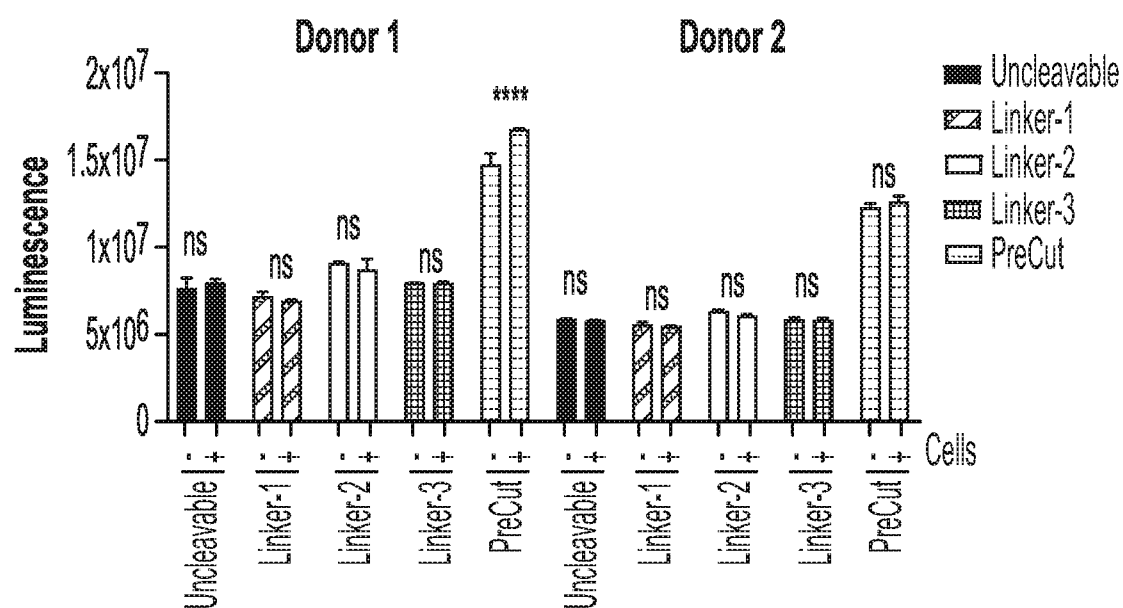


FIG. 6B

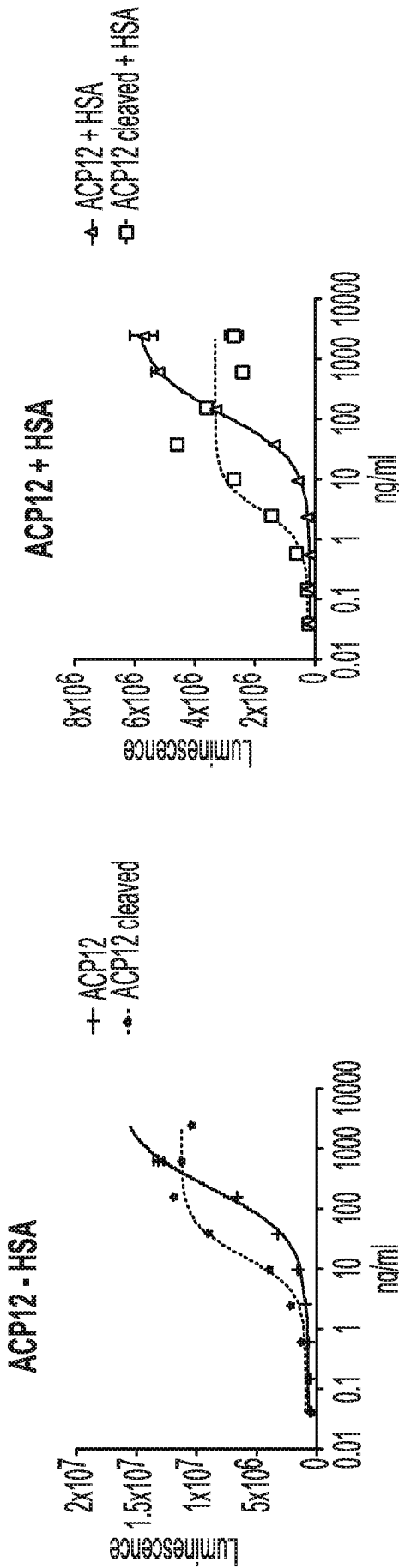


FIG. 7A

FIG. 7B

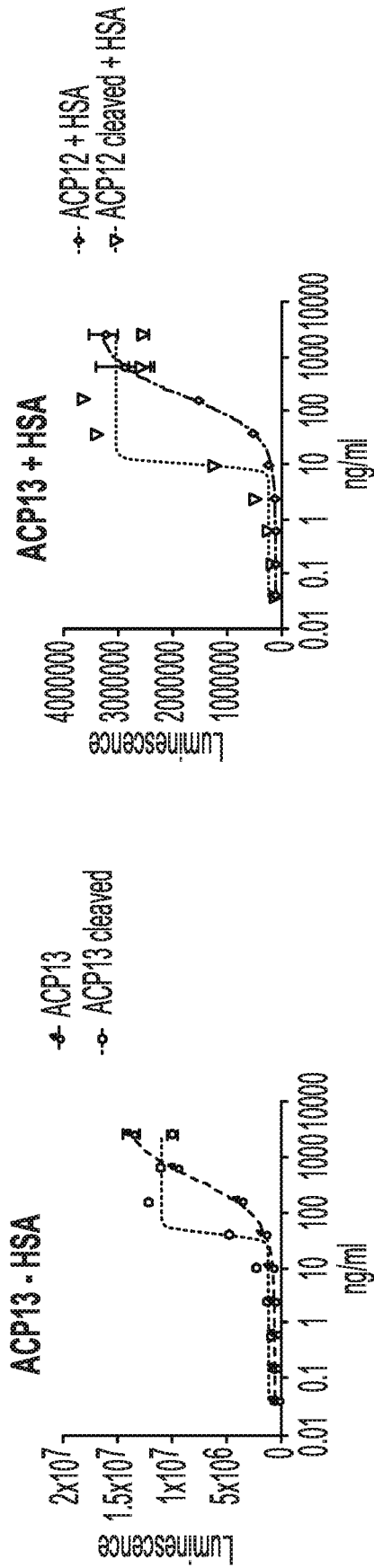


FIG. 7C

FIG. 7D

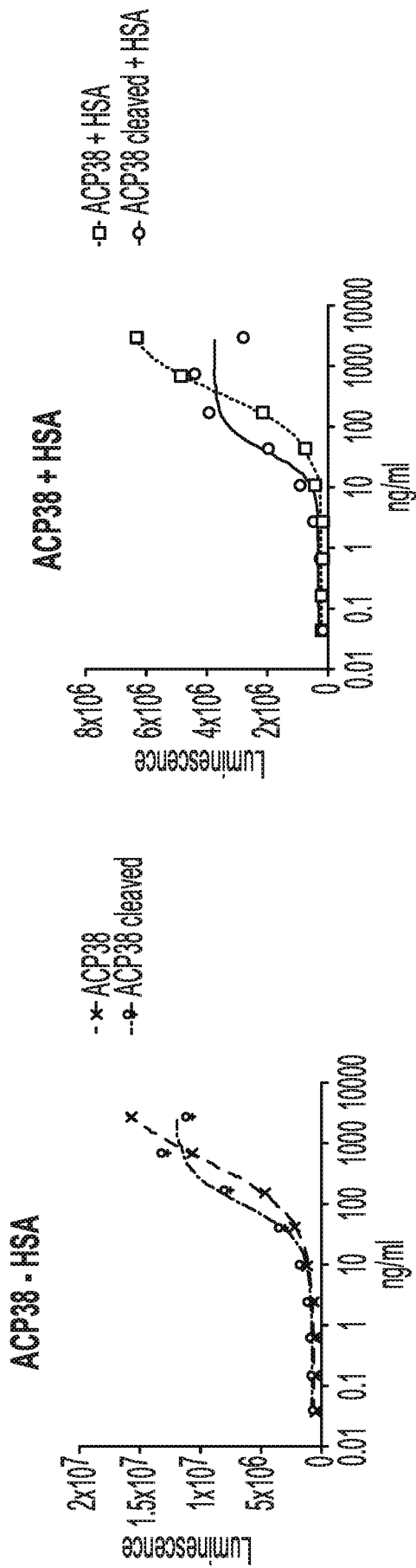


FIG. 7E

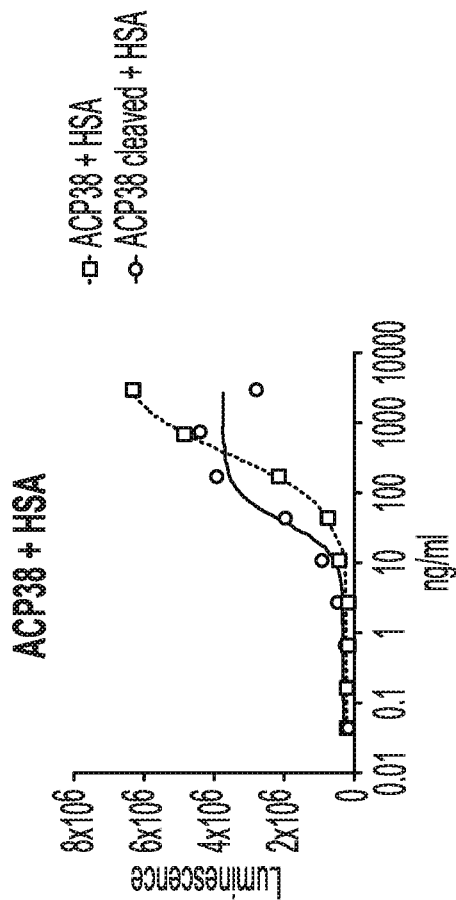


FIG. 7F

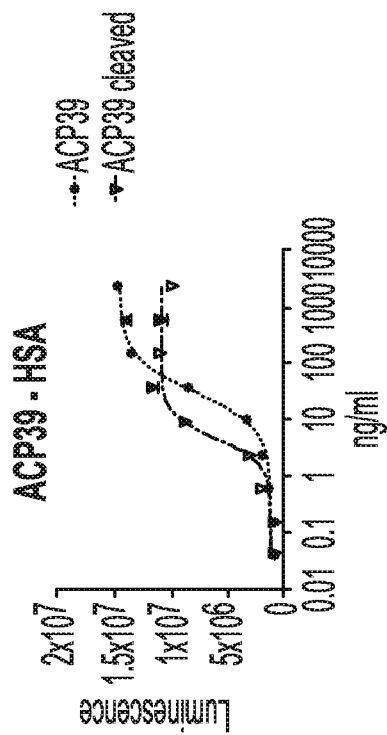


FIG. 7G

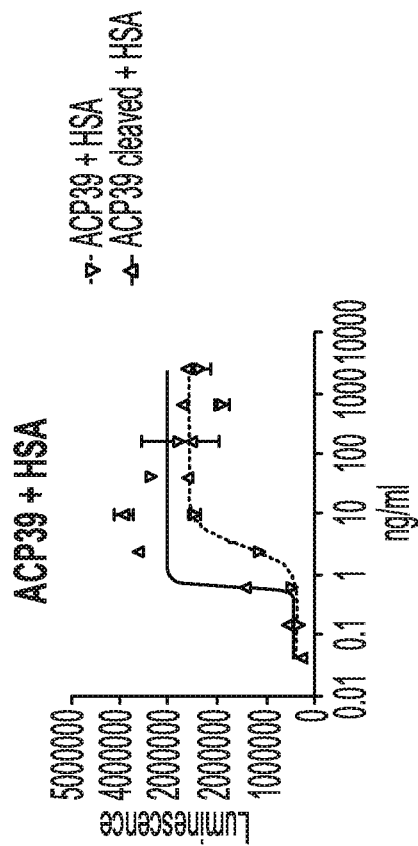


FIG. 7H

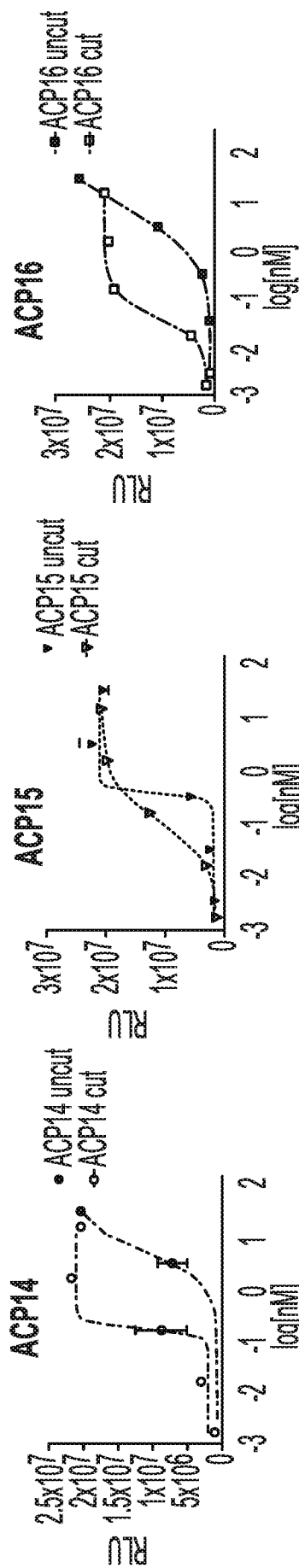


FIG. 8A

FIG. 8B

FIG. 8C

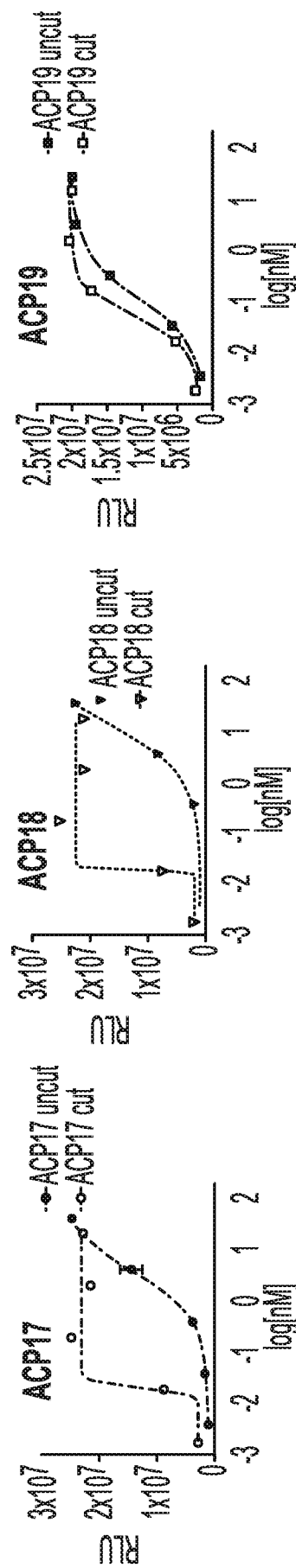


FIG. 8D

FIG. 8E

FIG. 8F

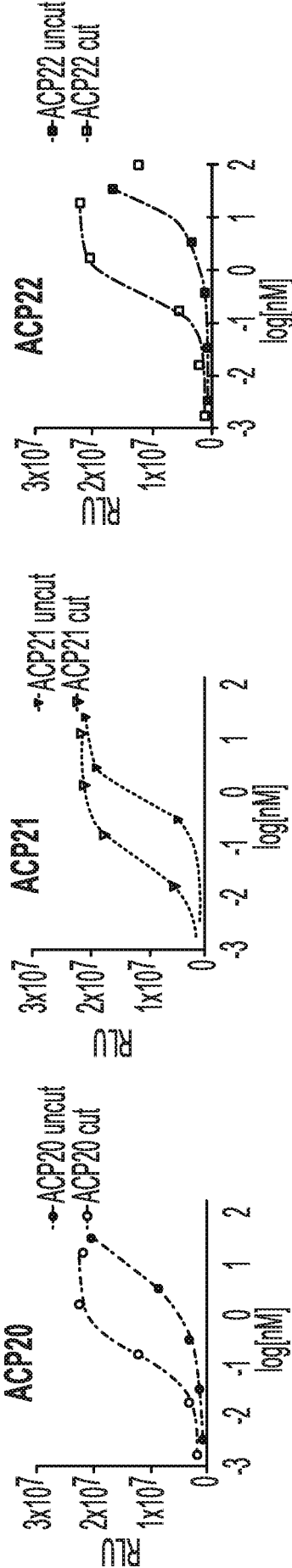


FIG. 9C

FIG. 9B

FIG. 9A

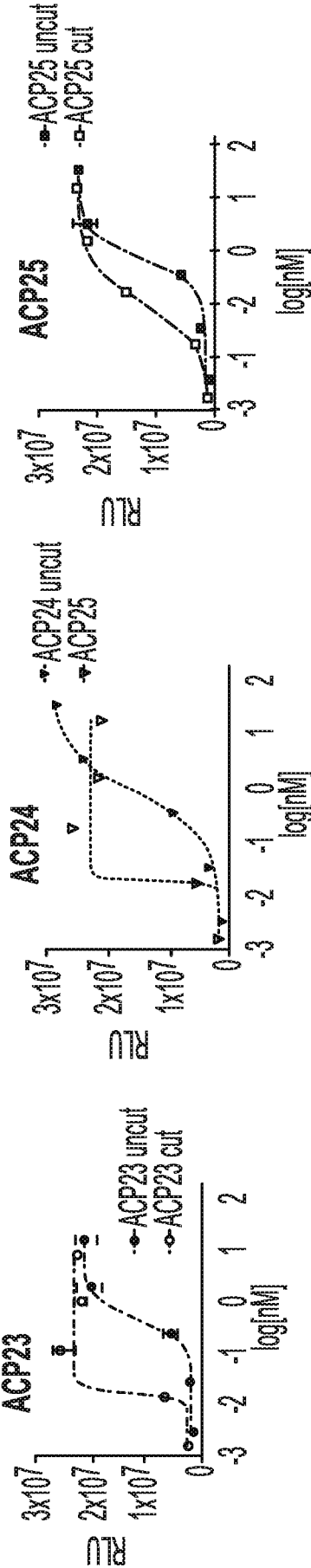


FIG. 9D

FIG. 9E

FIG. 9F

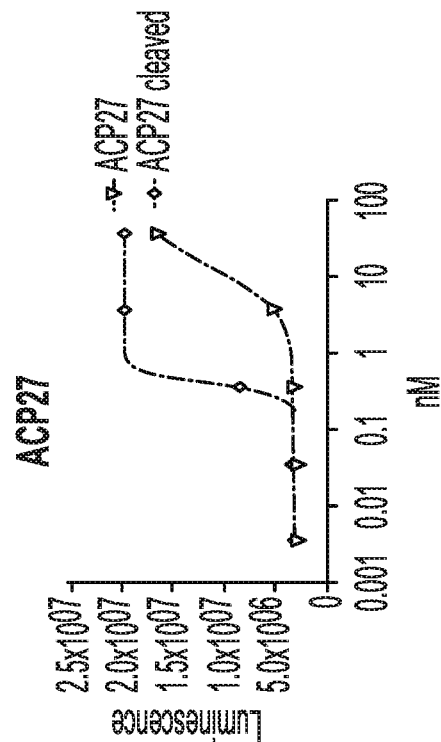


FIG. 9H

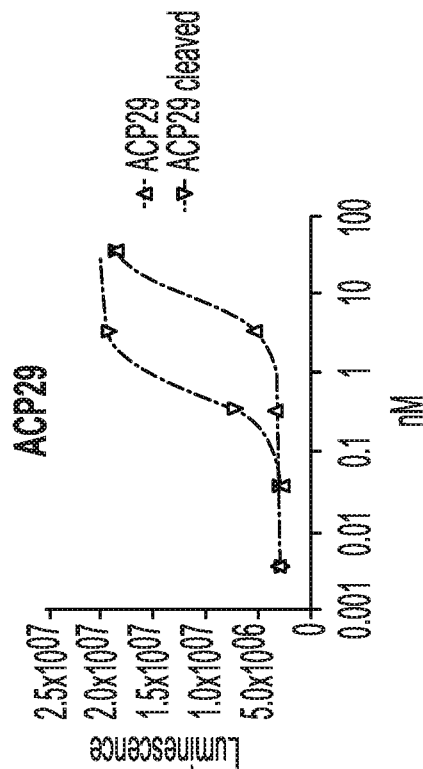


FIG. 9J

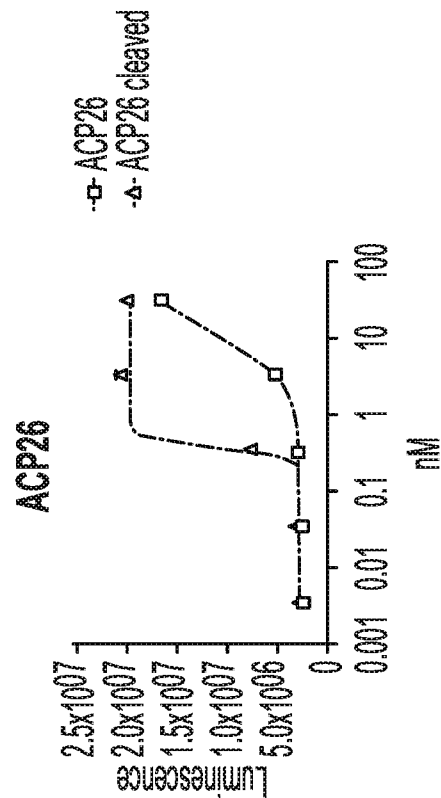


FIG. 9G

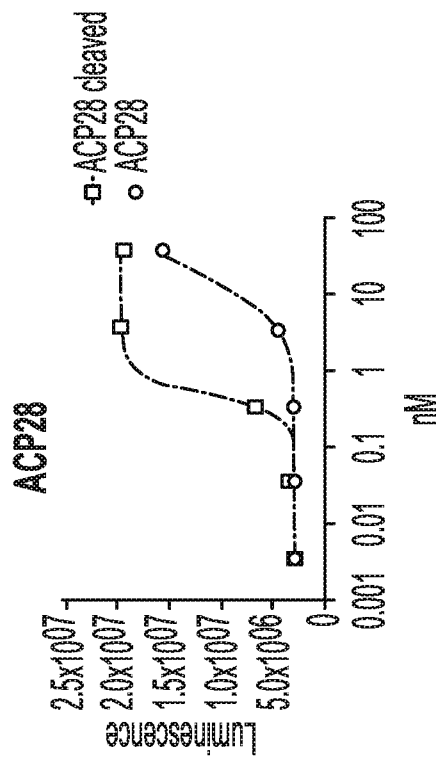


FIG. 9I

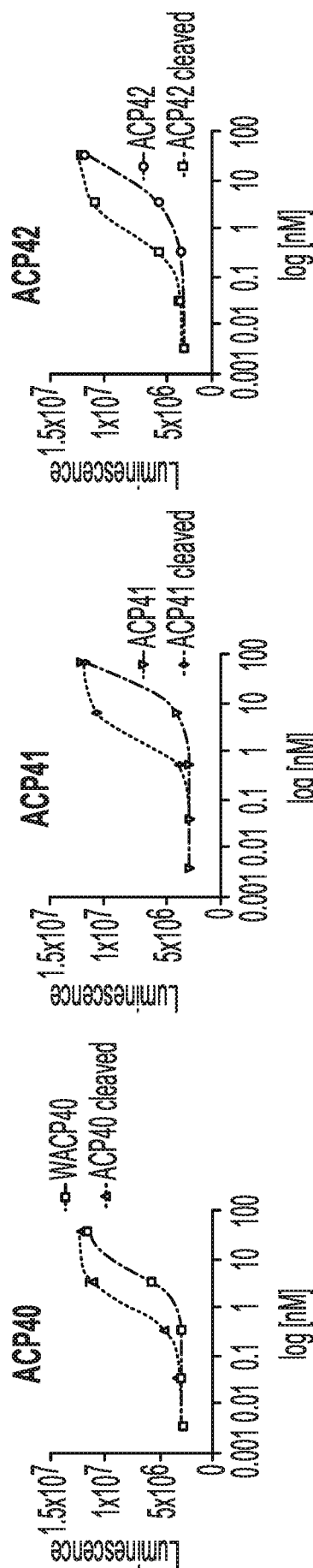


FIG. 9M

FIG. 9L

FIG. 9K

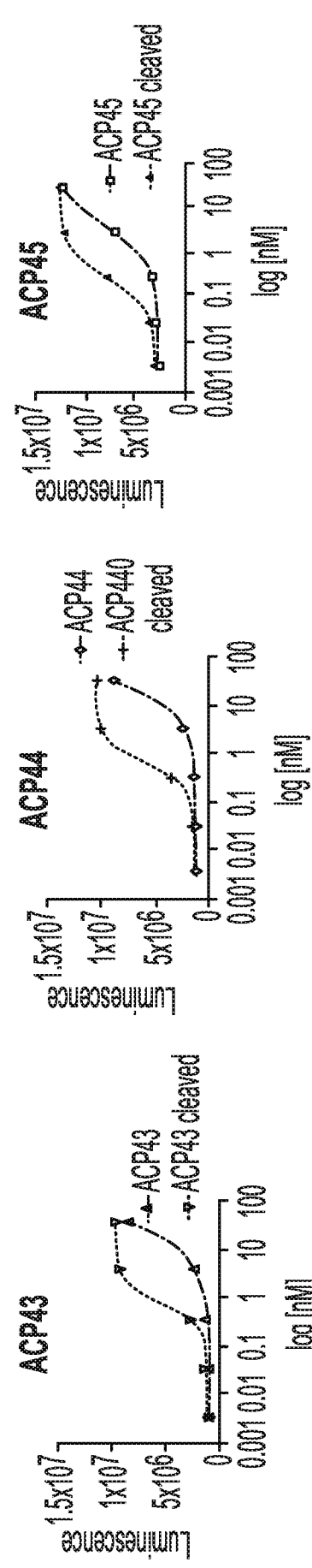


FIG. 9P

FIG. 9O

FIG. 9N

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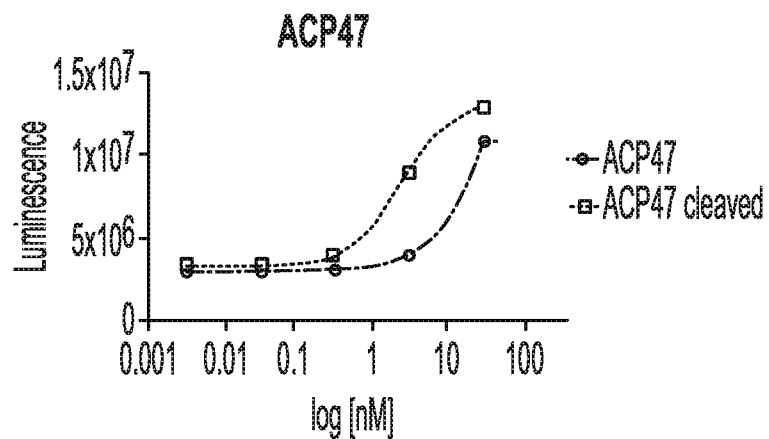


FIG. 9Q

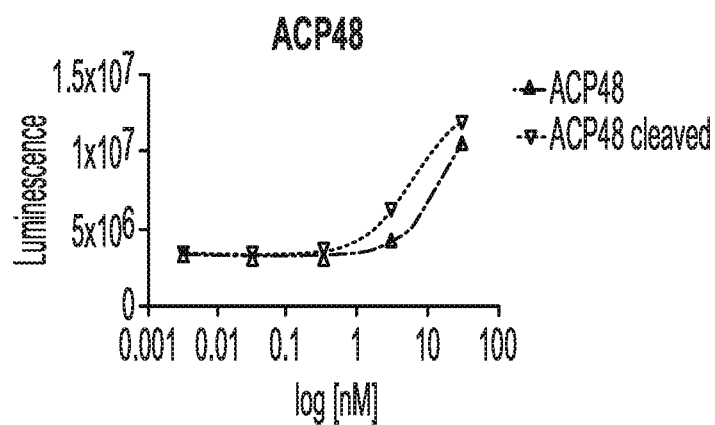


FIG. 9R

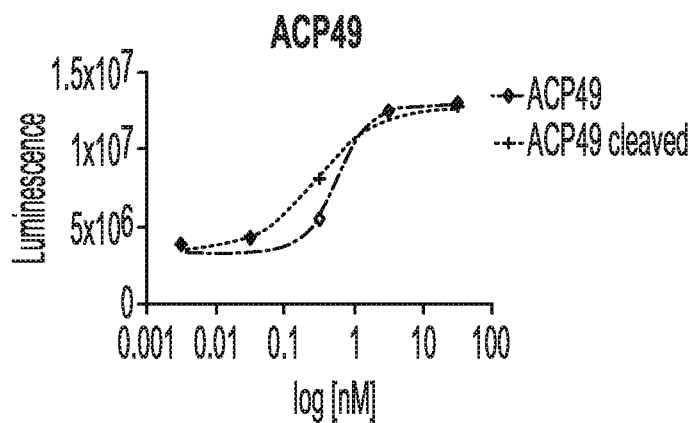


FIG. 9S

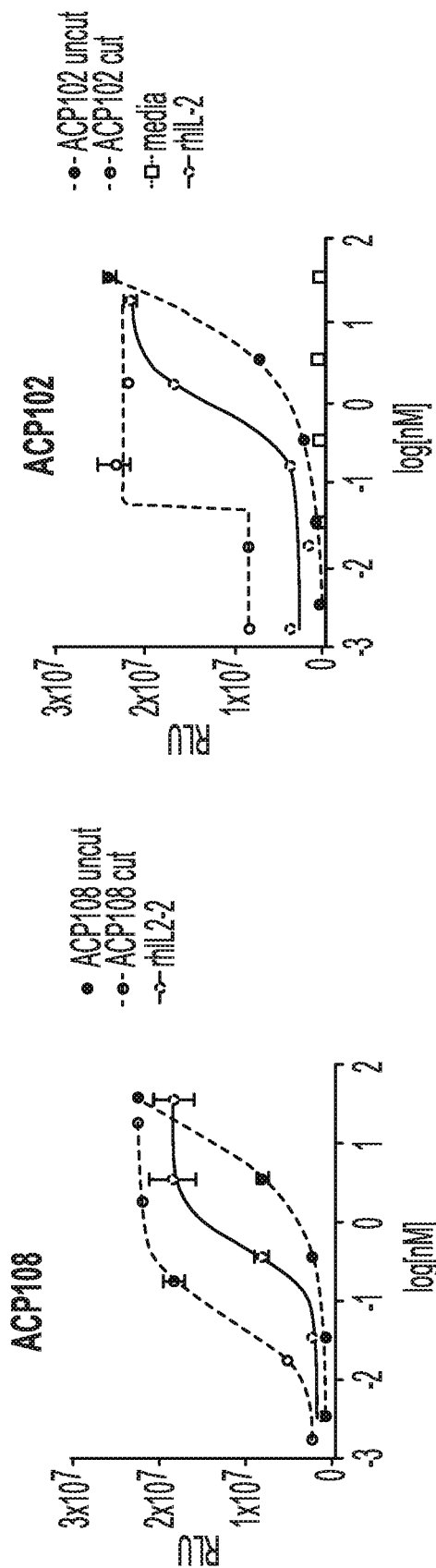


FIG. 9U

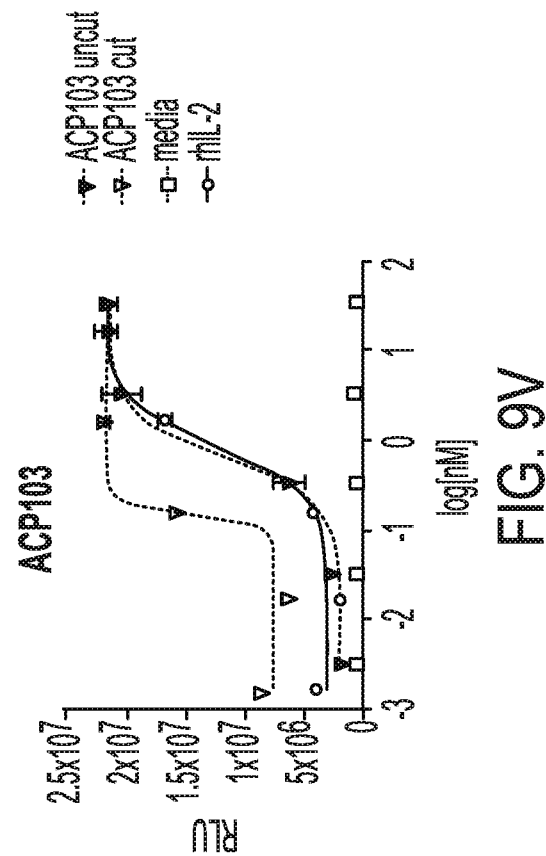


FIG. 9V

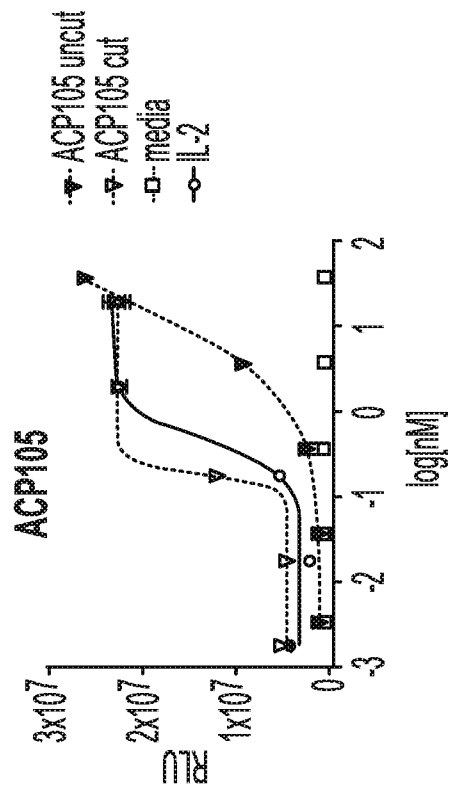


FIG. 9X

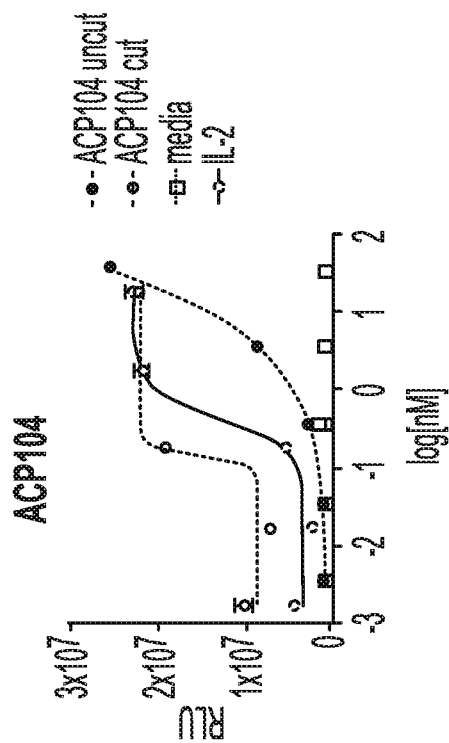


FIG. 9W

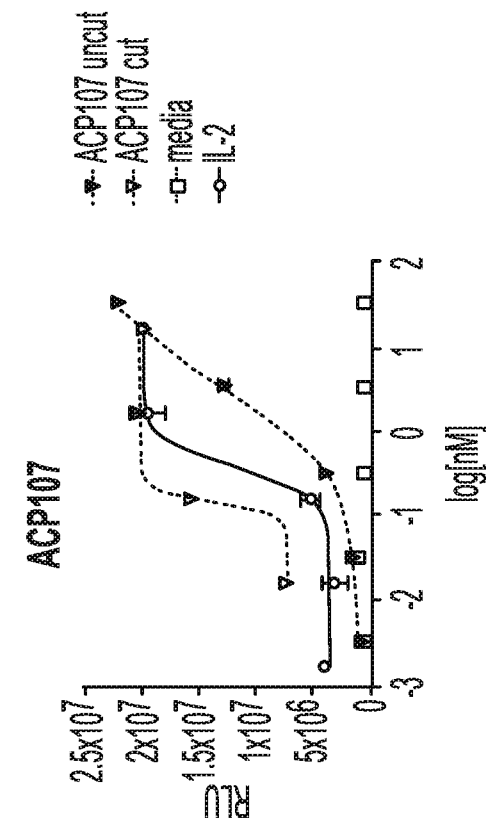


FIG. 9Z

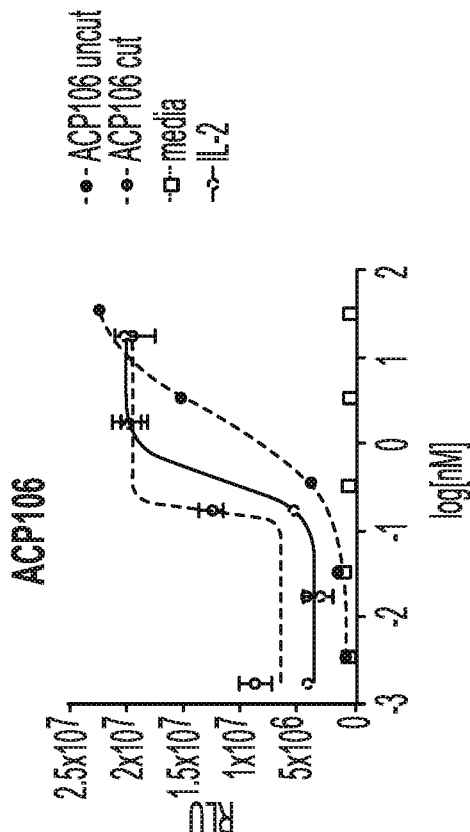


FIG. 9Y

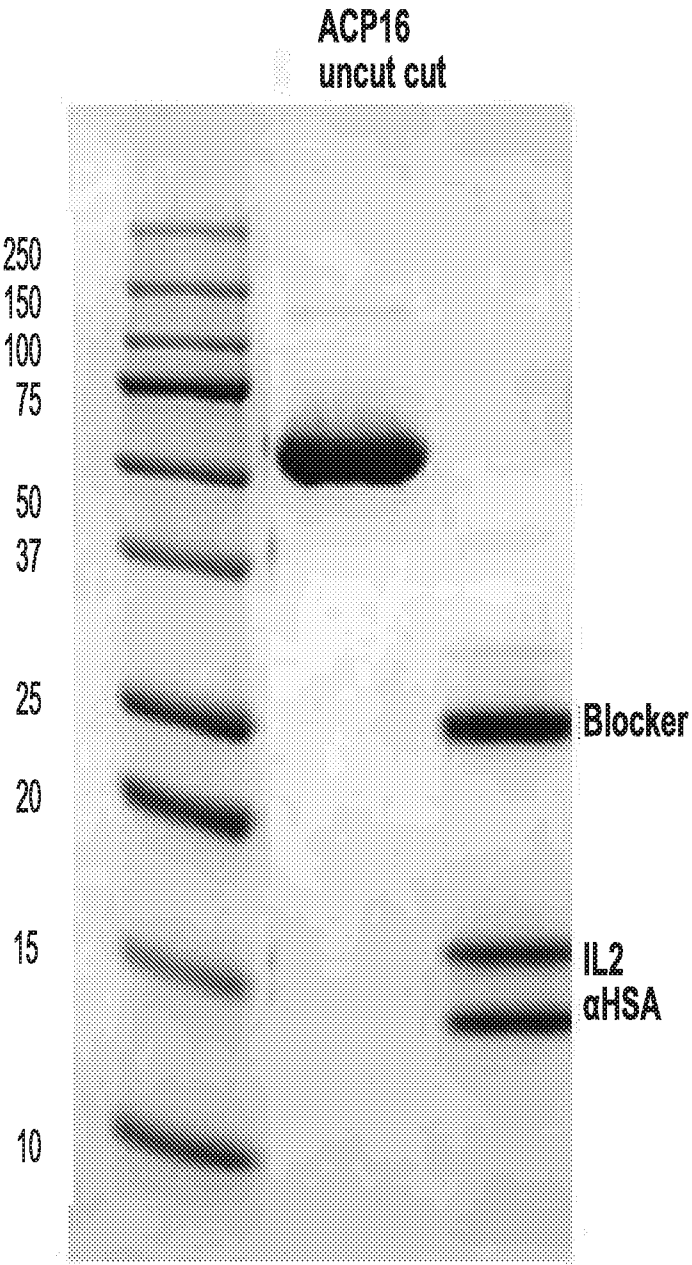


FIG. 10

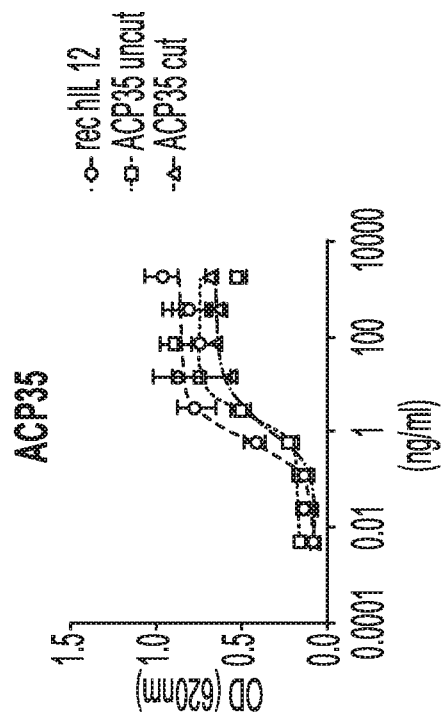


FIG. 11B

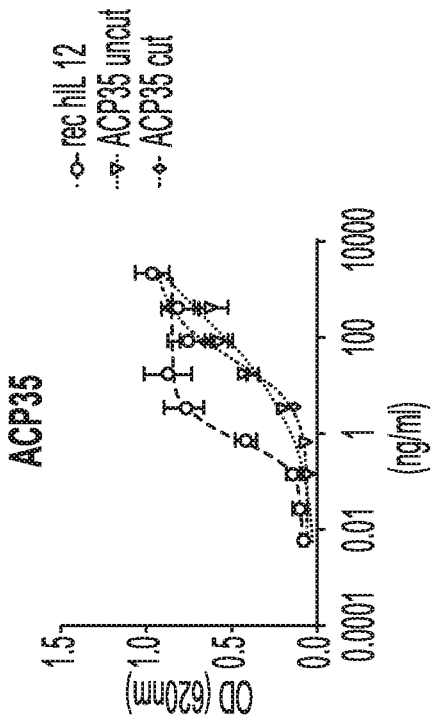


FIG. 11A

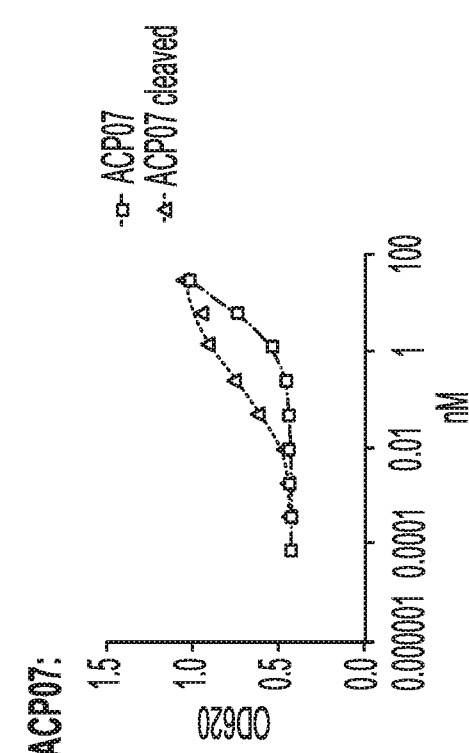


FIG. 12C

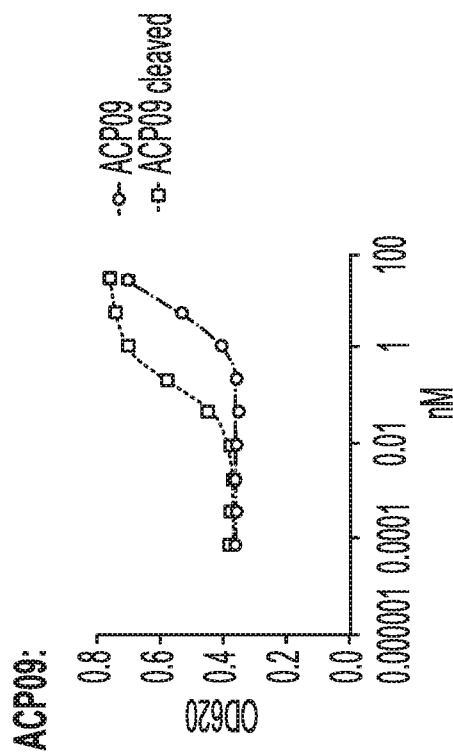


FIG. 12D

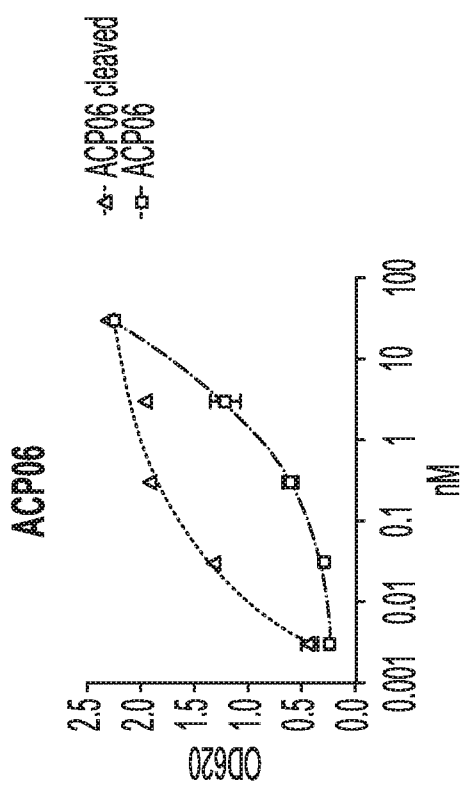


FIG. 12A

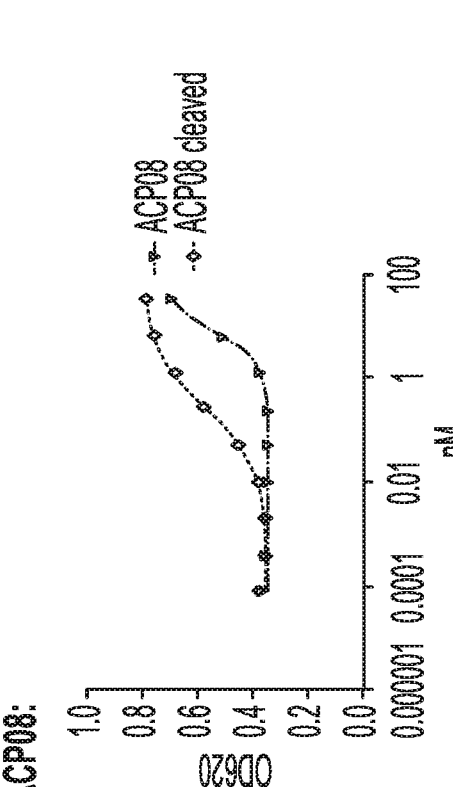


FIG. 12B

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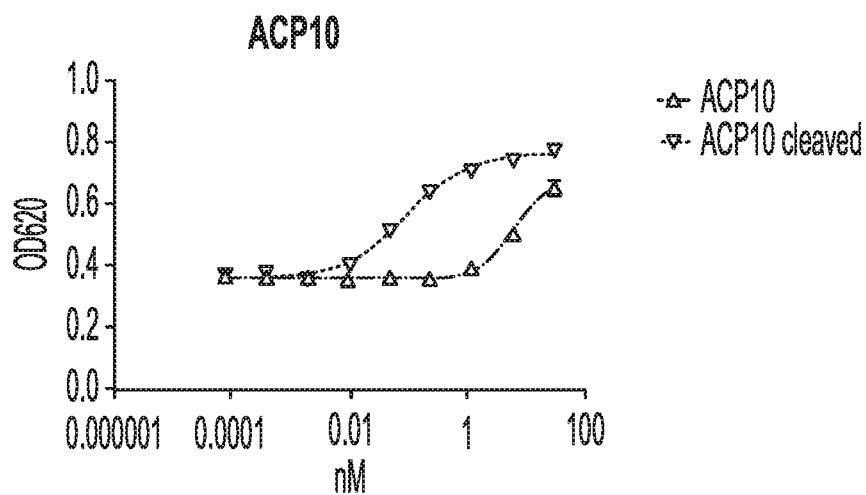


FIG. 12E

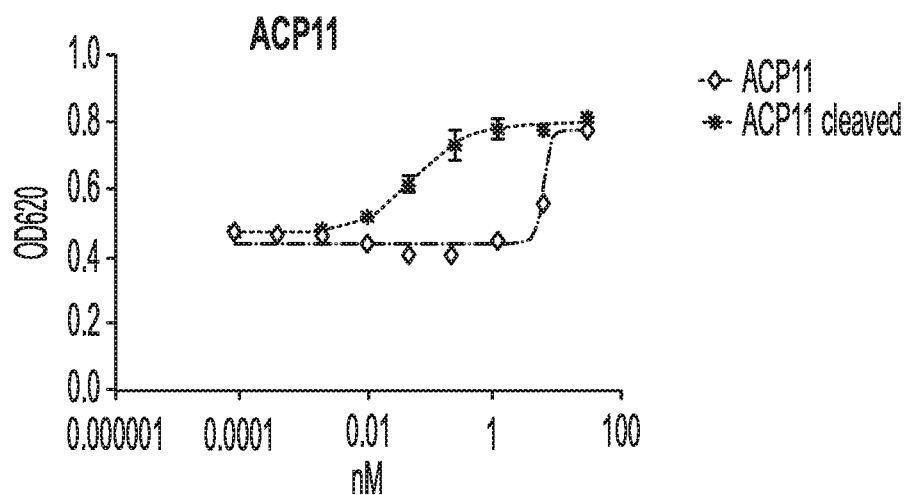


FIG. 12F

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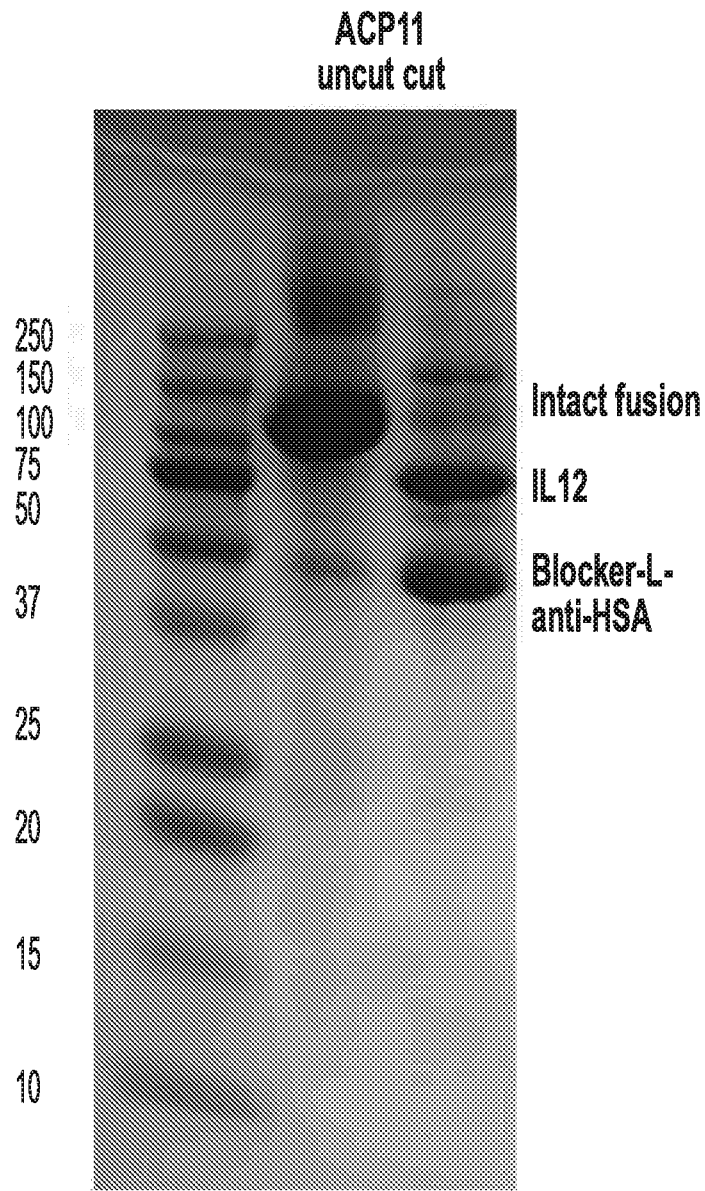


FIG. 13

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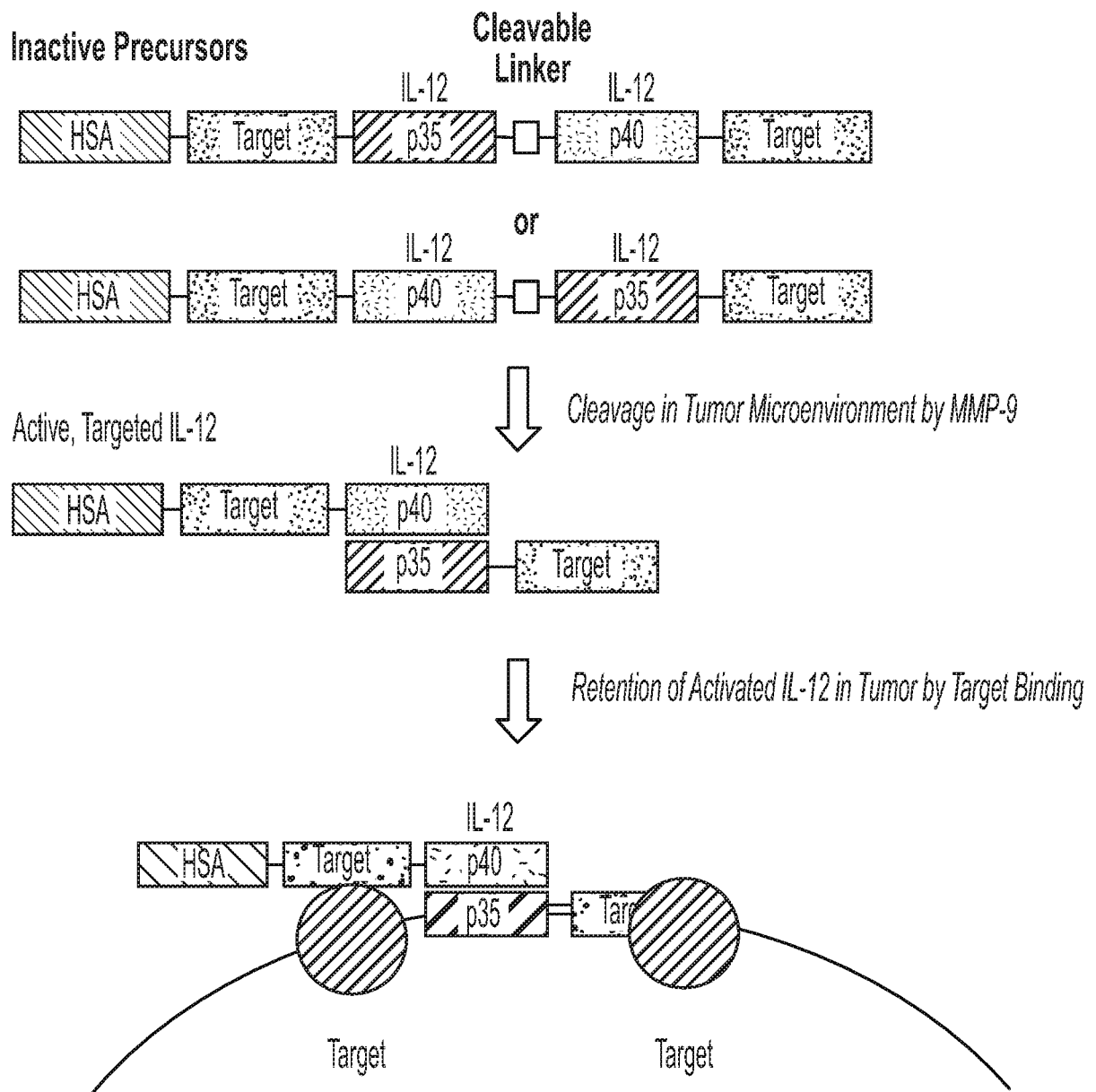


FIG. 14

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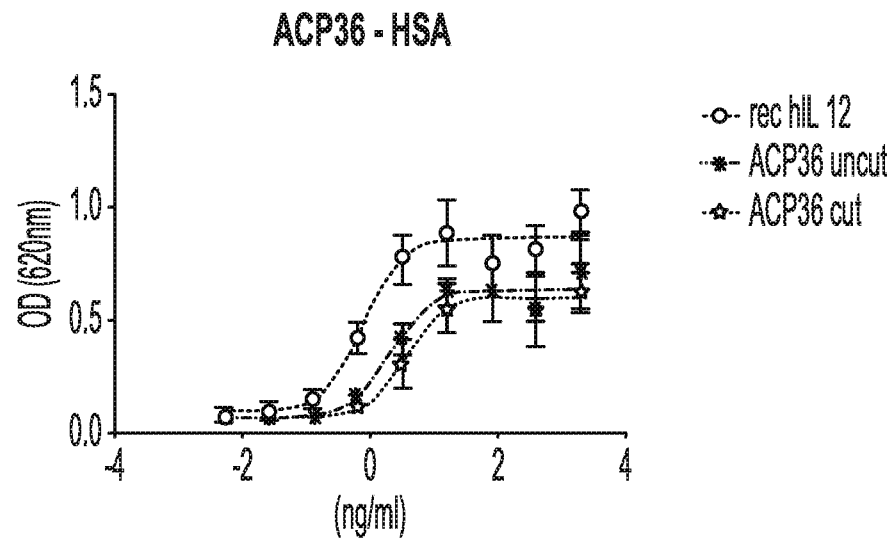


FIG. 15A

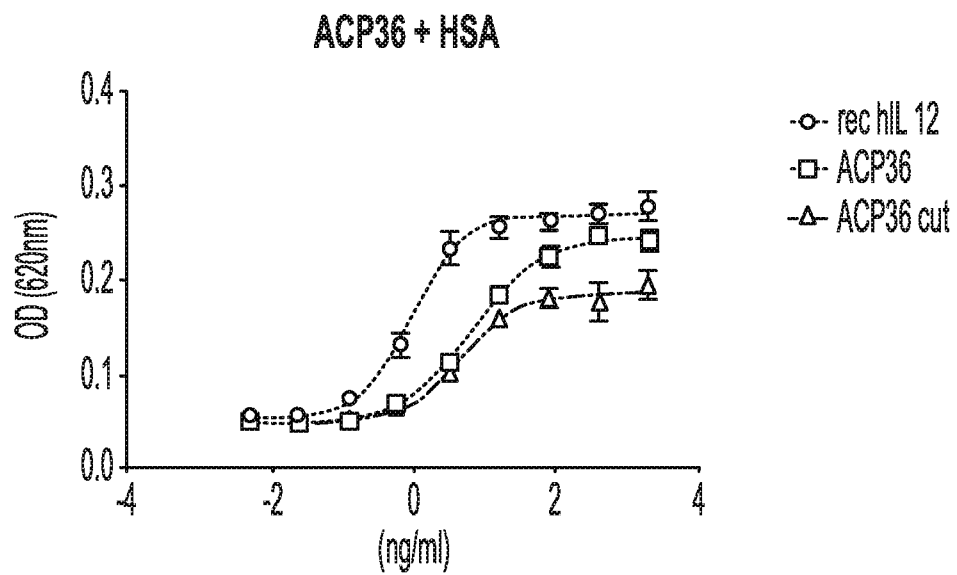


FIG. 15B

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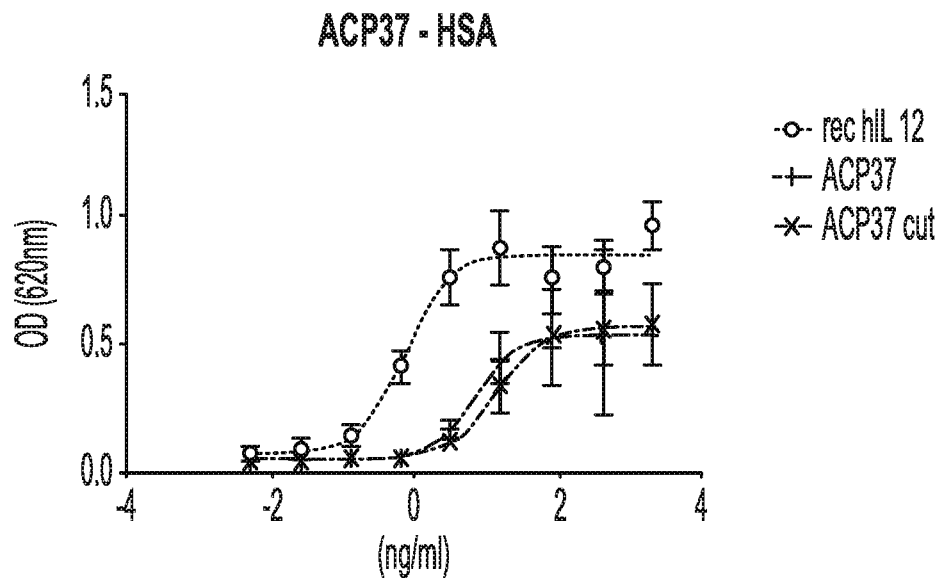


FIG. 15C

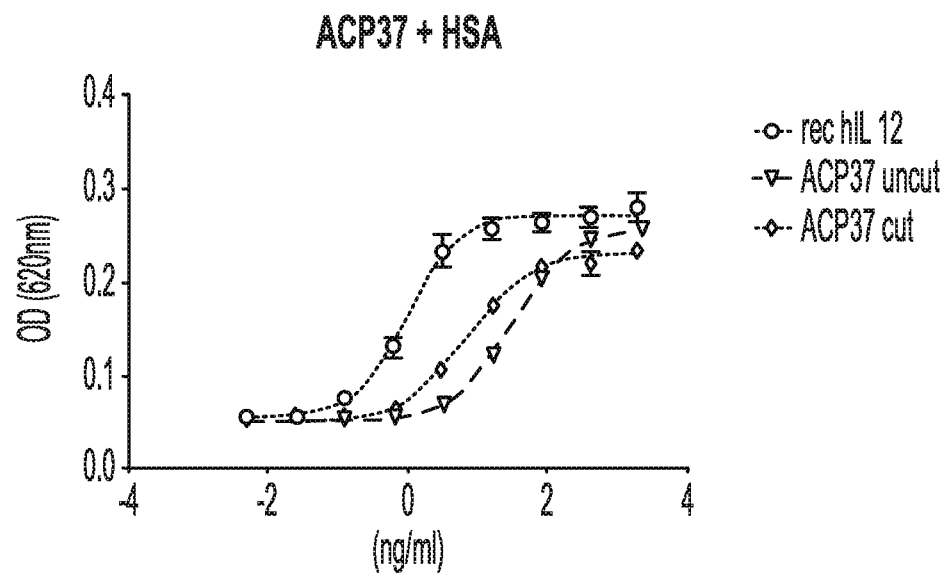


FIG. 15D

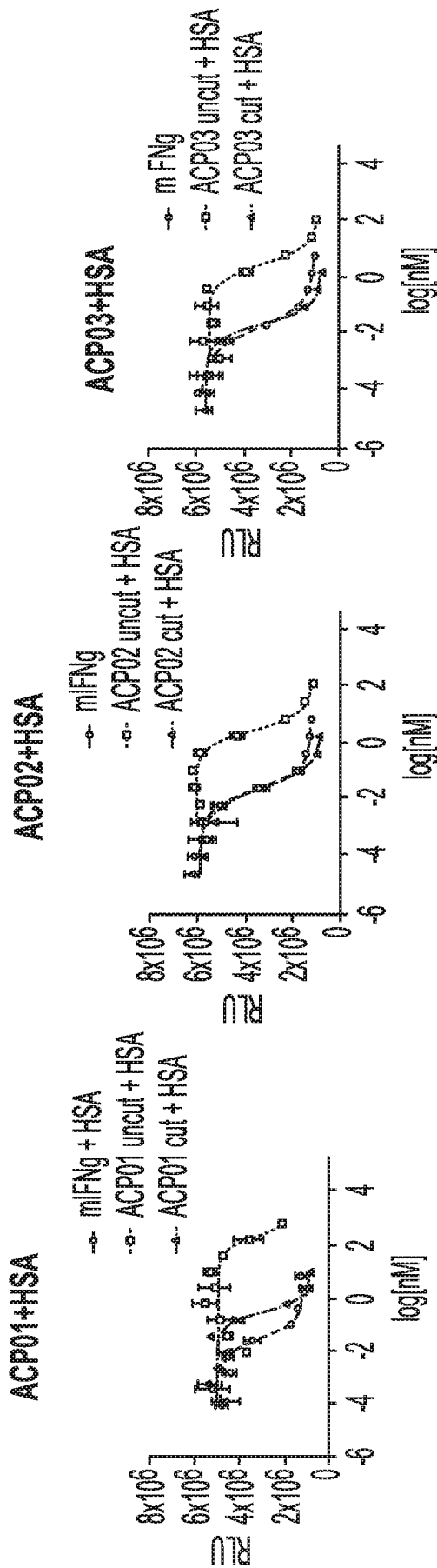


FIG. 16E

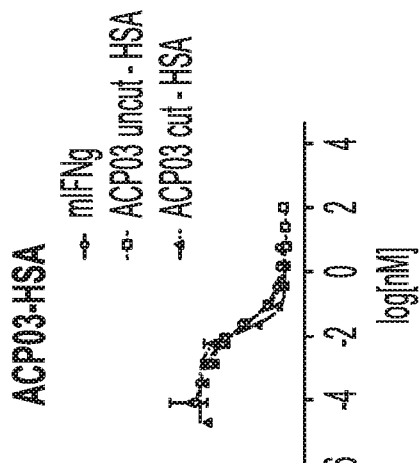


FIG. 16F

FIG. 16C

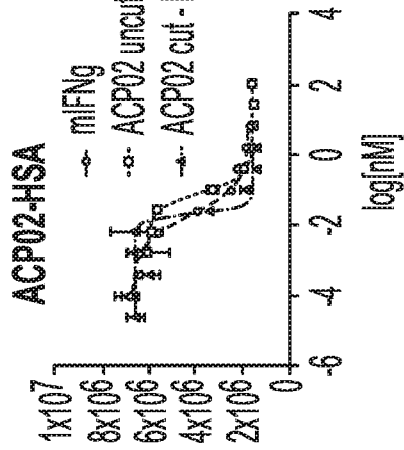


FIG. 16D

FIG. 16A

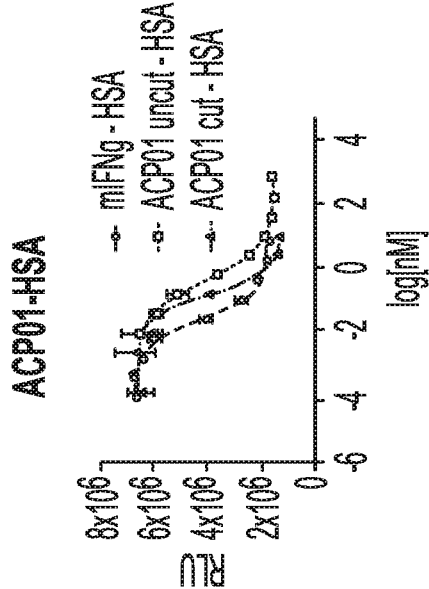


FIG. 16B

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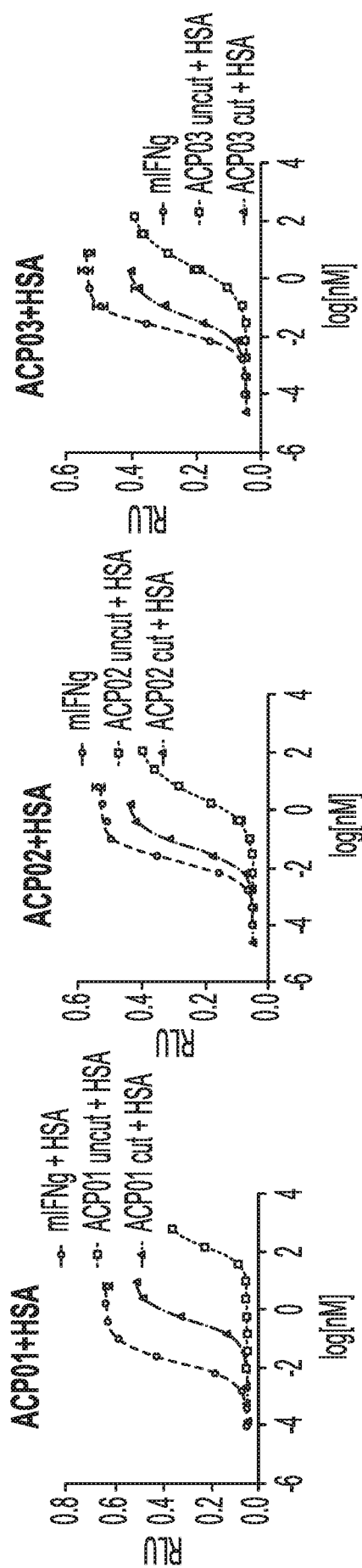


FIG. 17E

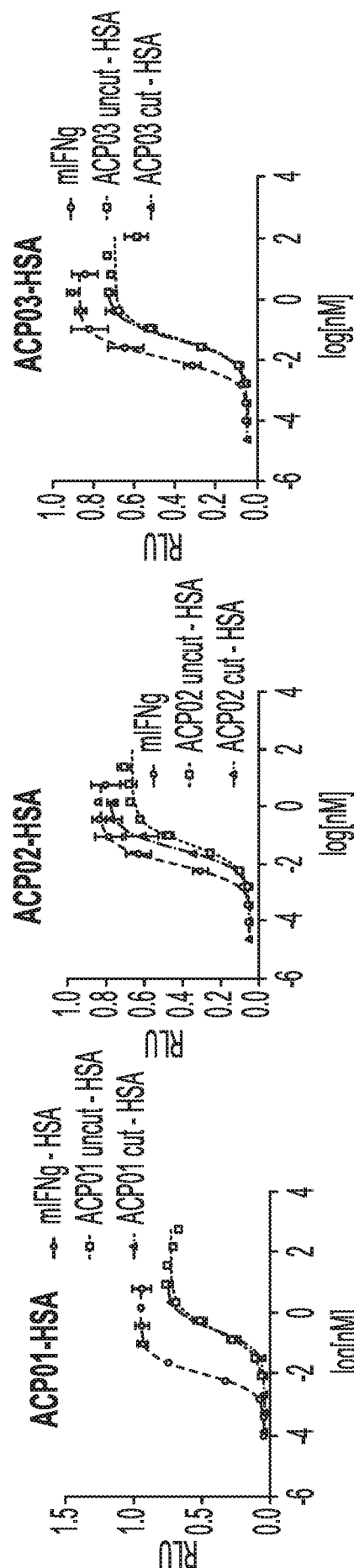


FIG. 17C

FIG. 17F

FIG. 17D

FIG. 17B

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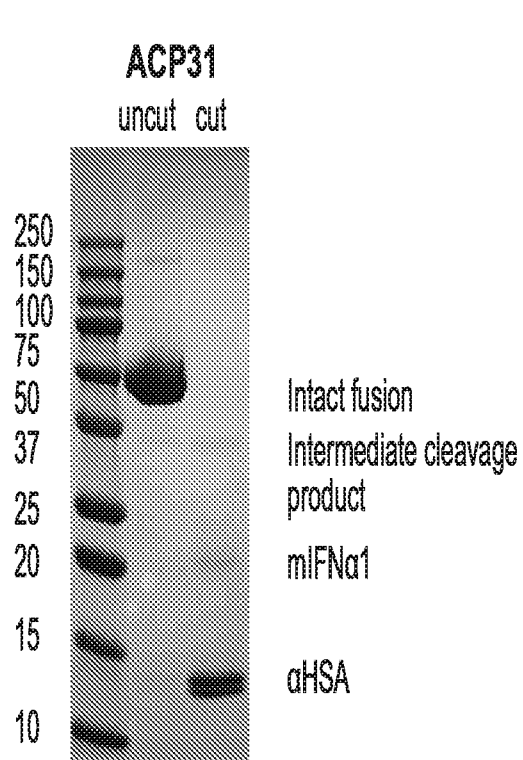


FIG. 18A

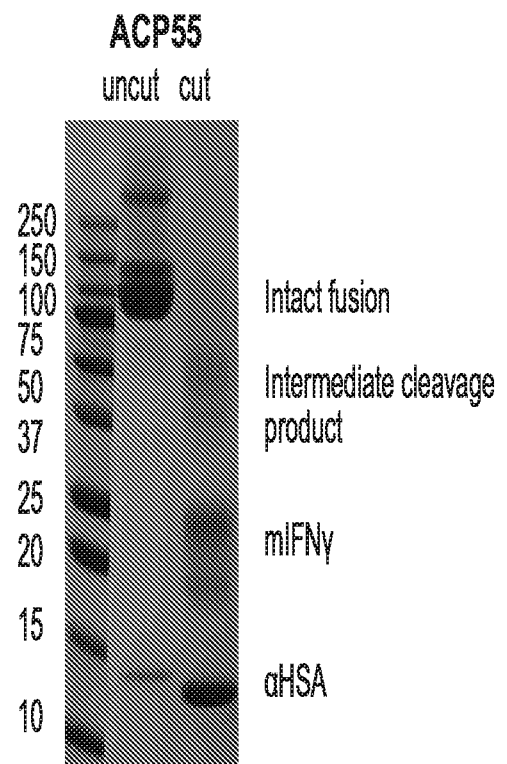


FIG. 18B

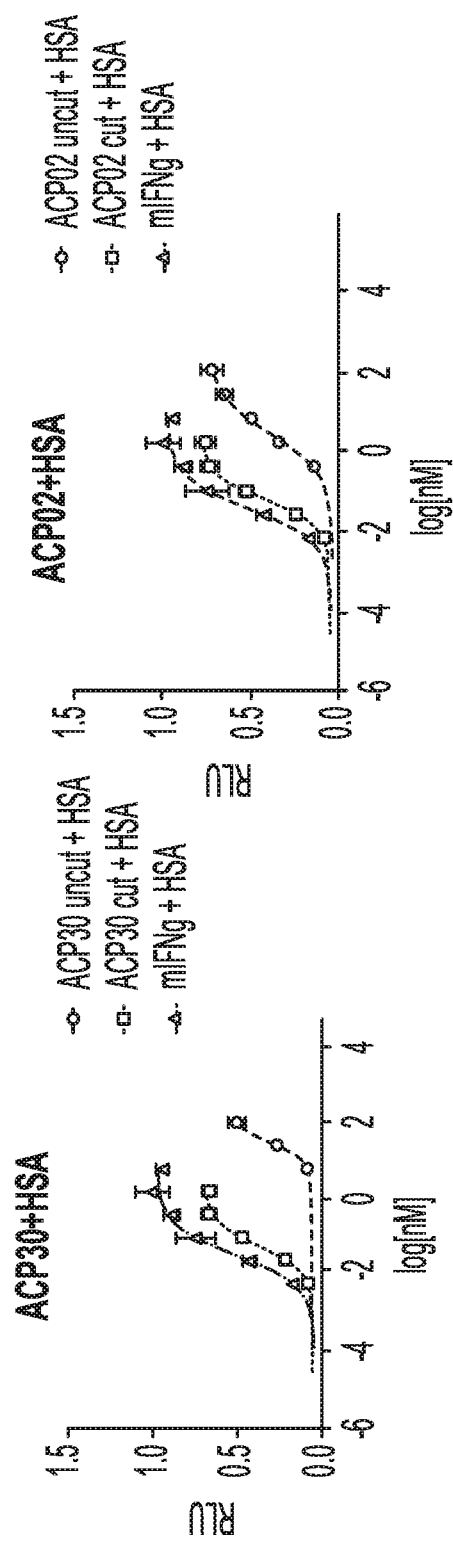


FIG. 19A

FIG. 19B

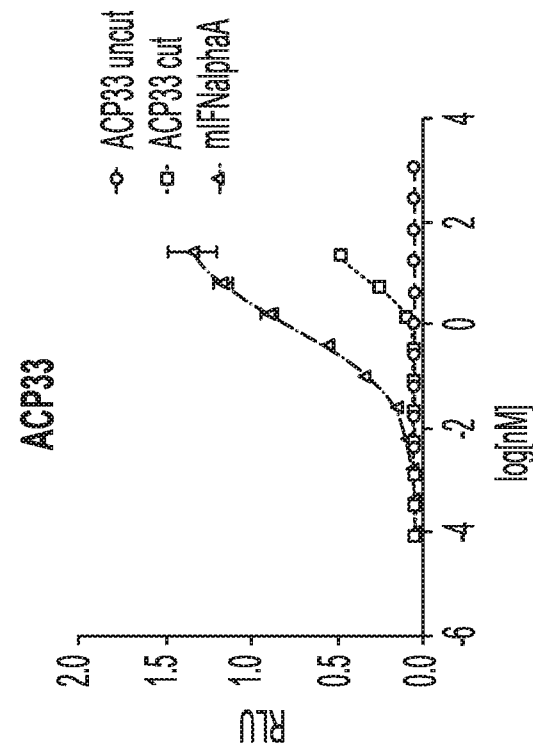


FIG. 20B

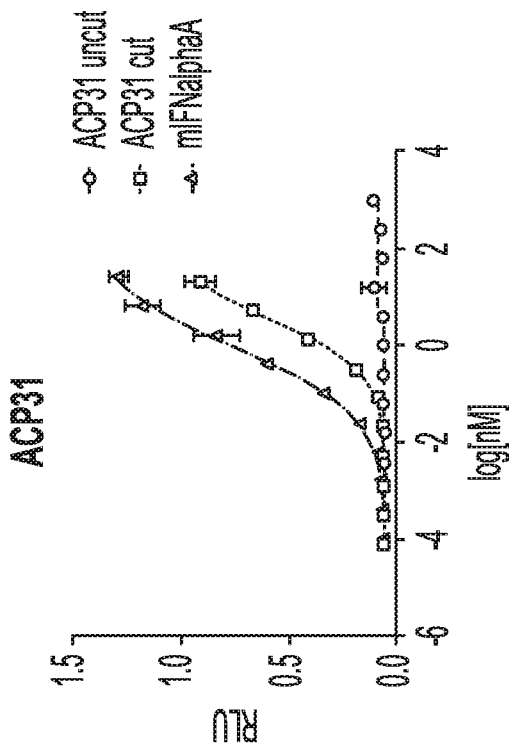


FIG. 20A

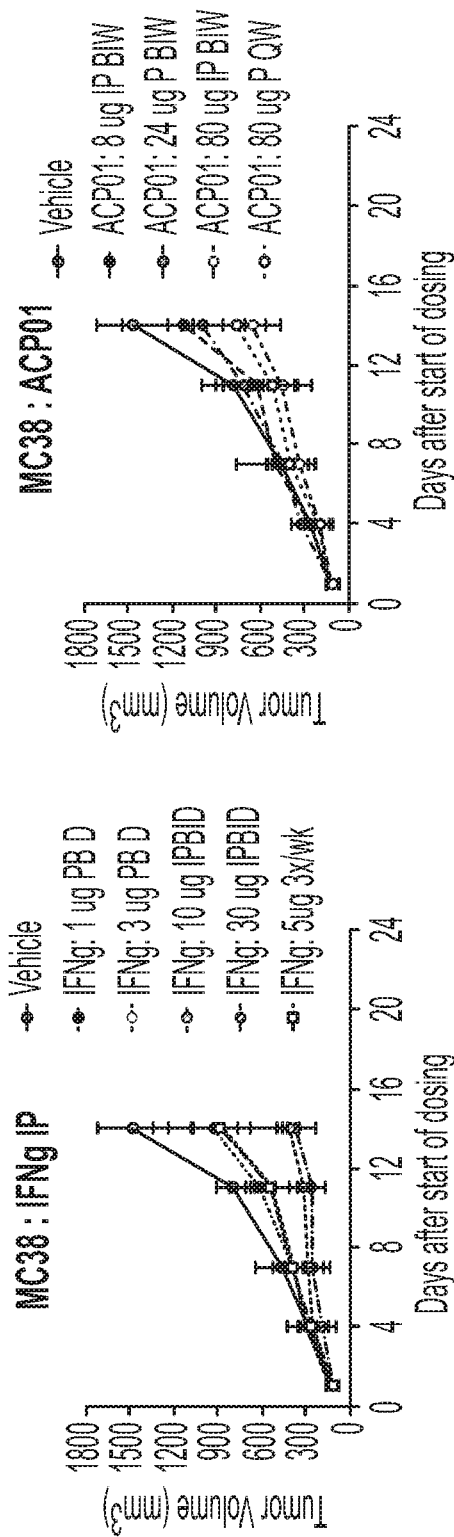


FIG. 21A

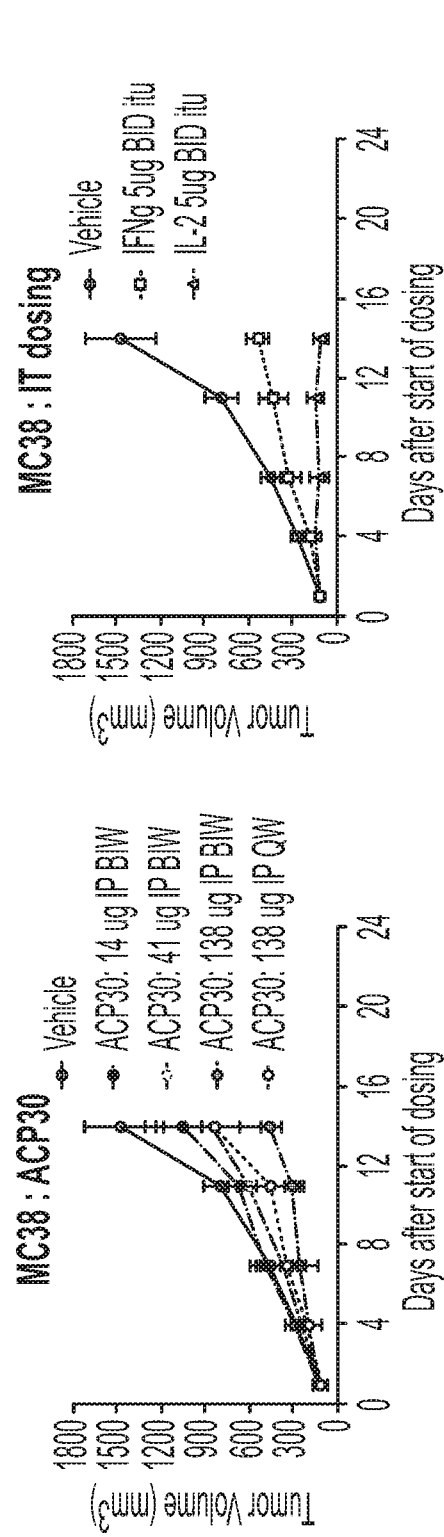


FIG. 21C

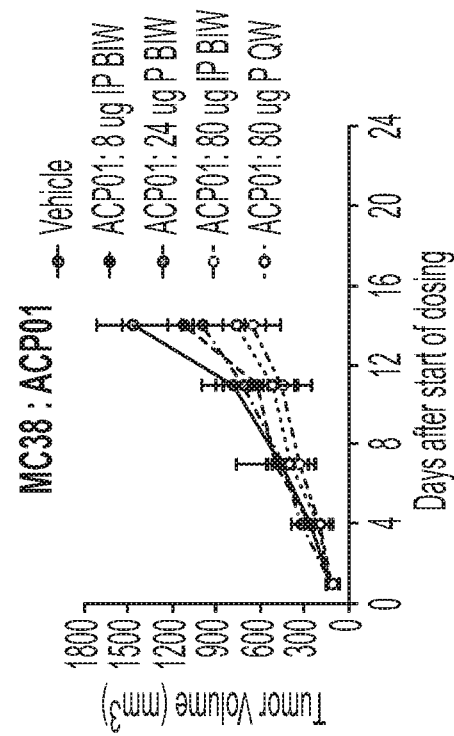


FIG. 21B

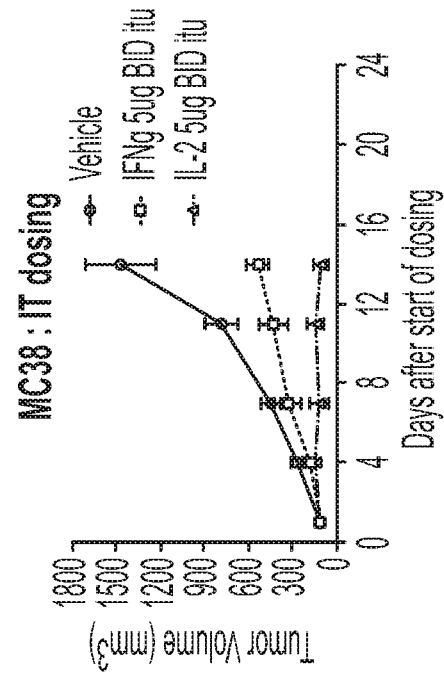


FIG. 21D

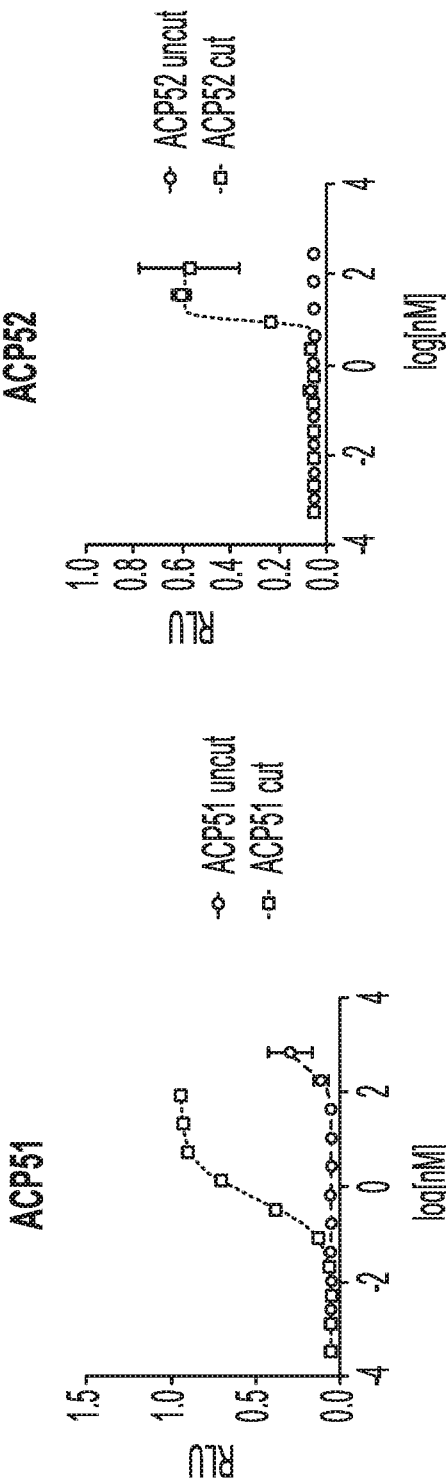


FIG. 22B

FIG. 22A

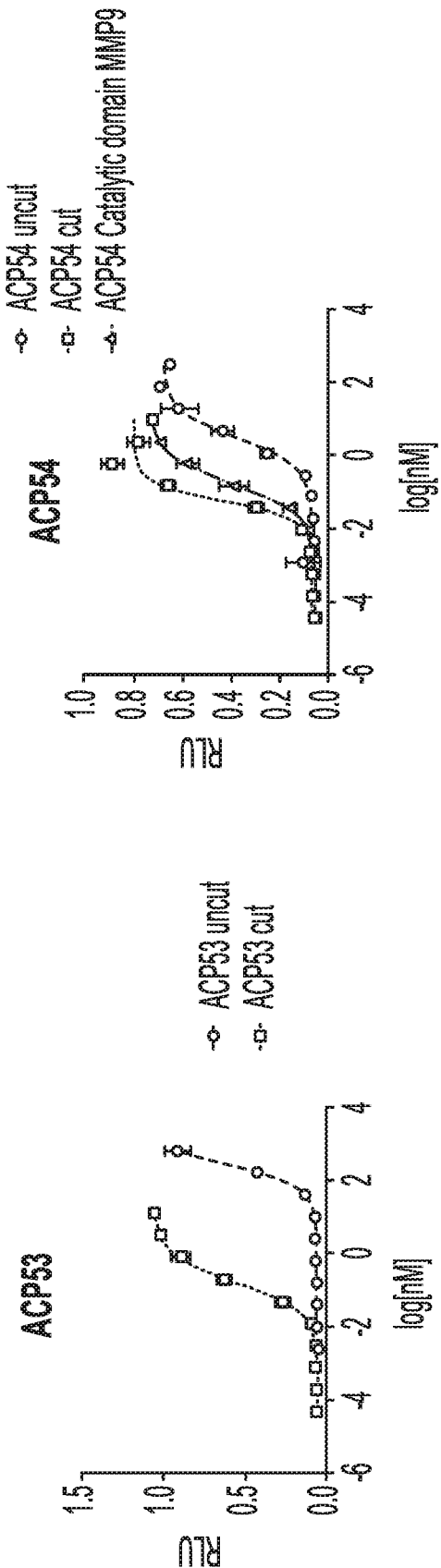


FIG. 23B

FIG. 23A

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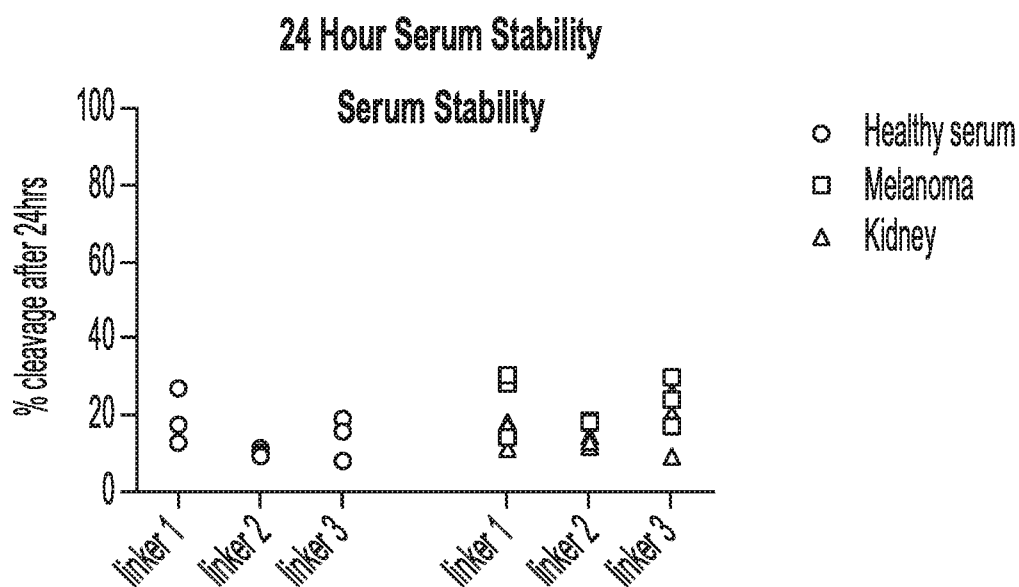


FIG. 24A

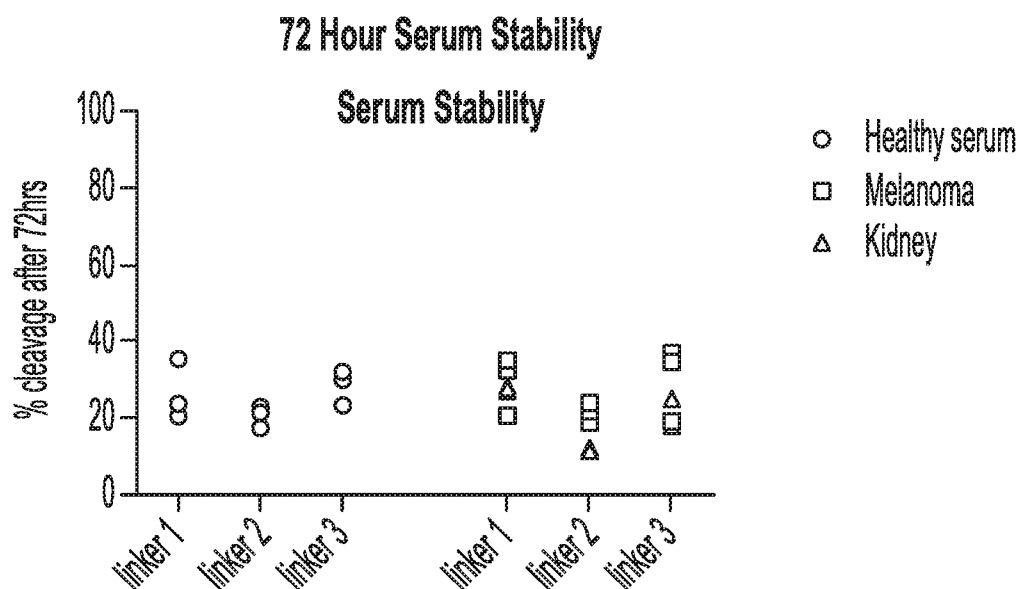


FIG. 24B

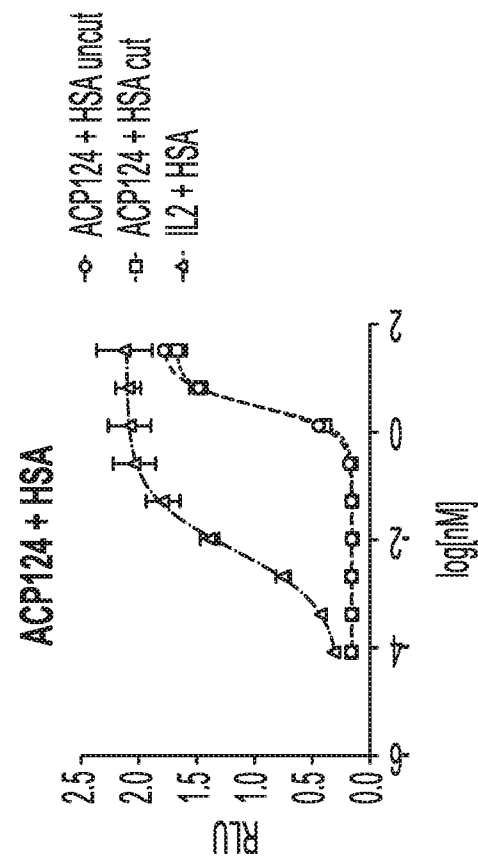


FIG. 25B

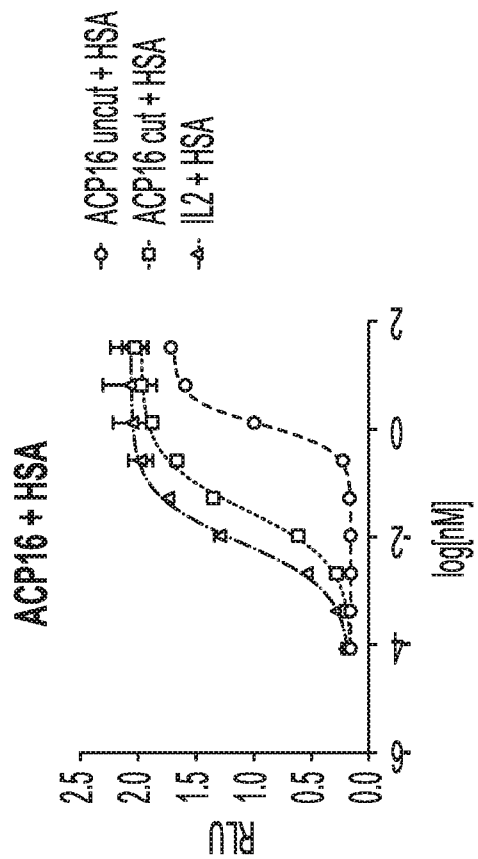


FIG. 25A

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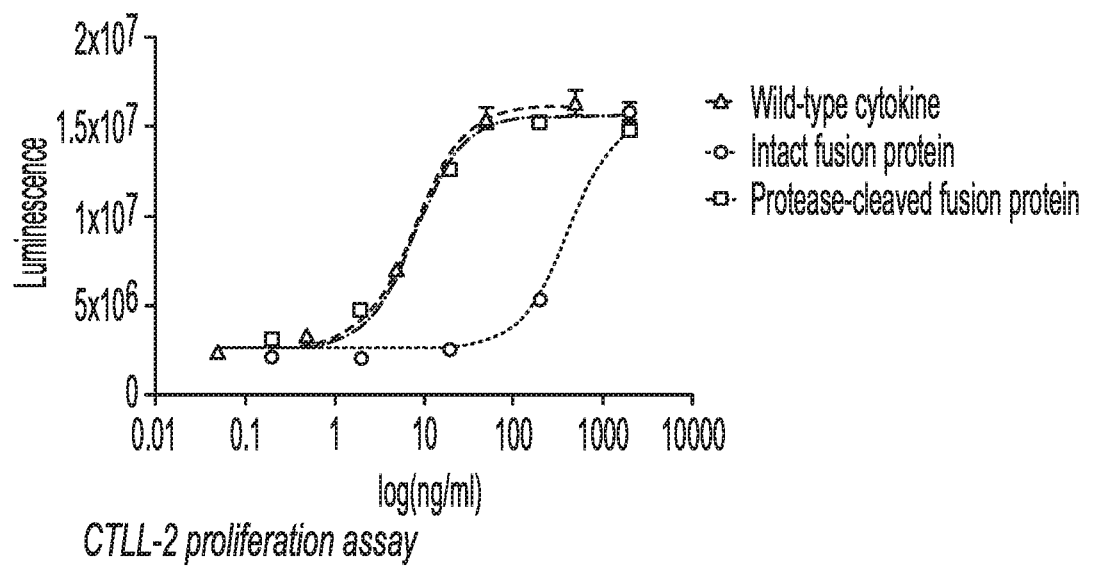


FIG. 25C

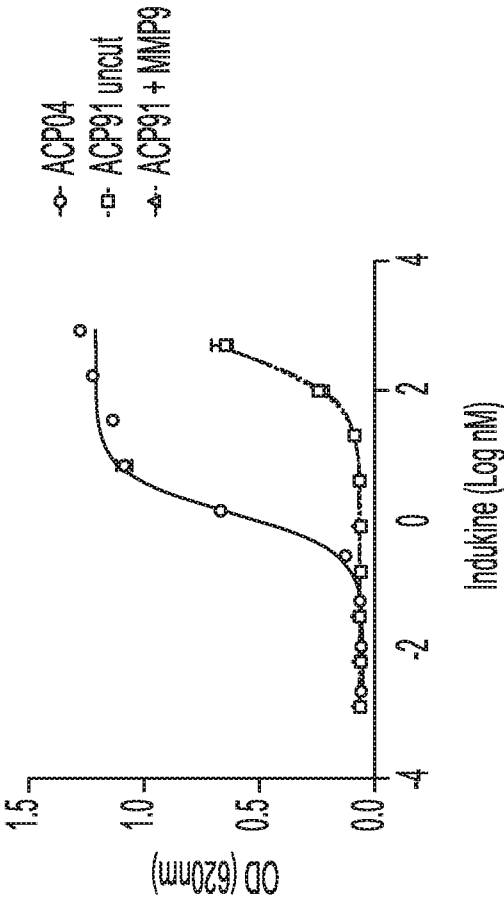


FIG. 26A

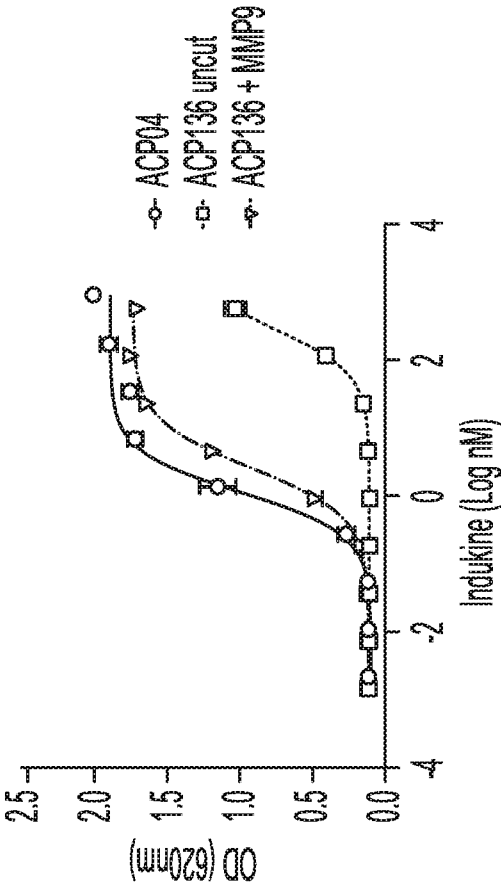


FIG. 26B

FIG. 26C

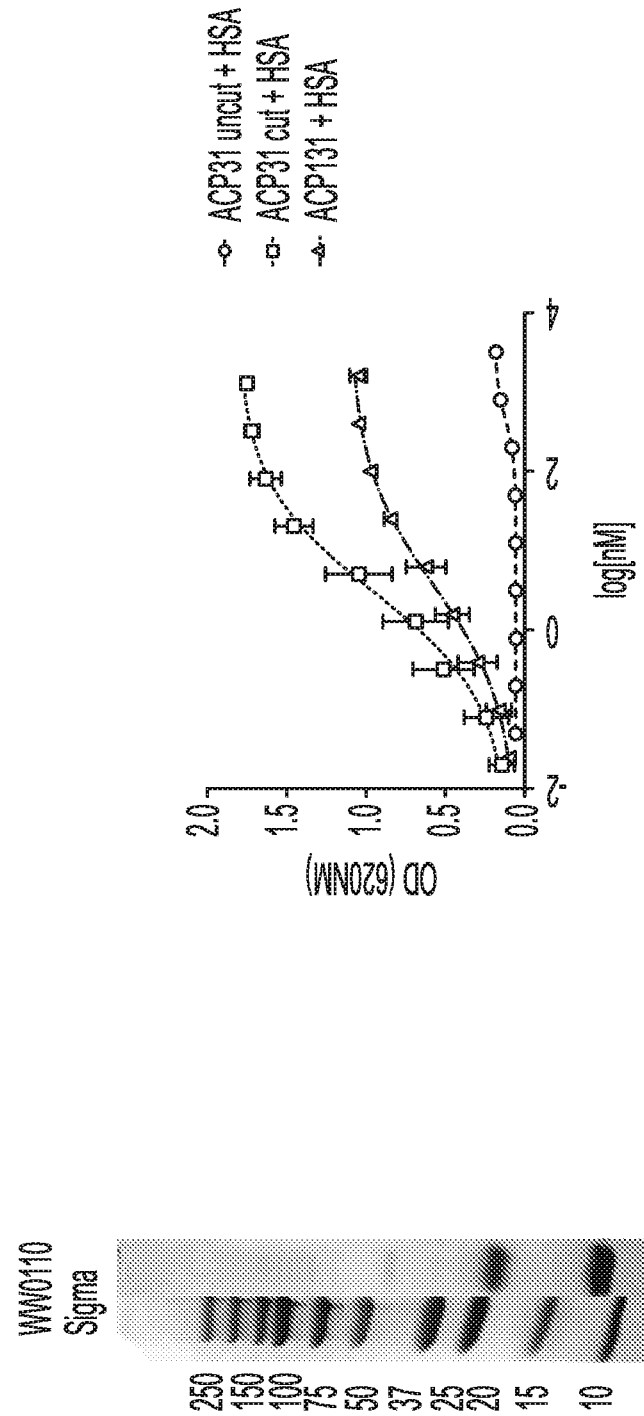


FIG. 27A

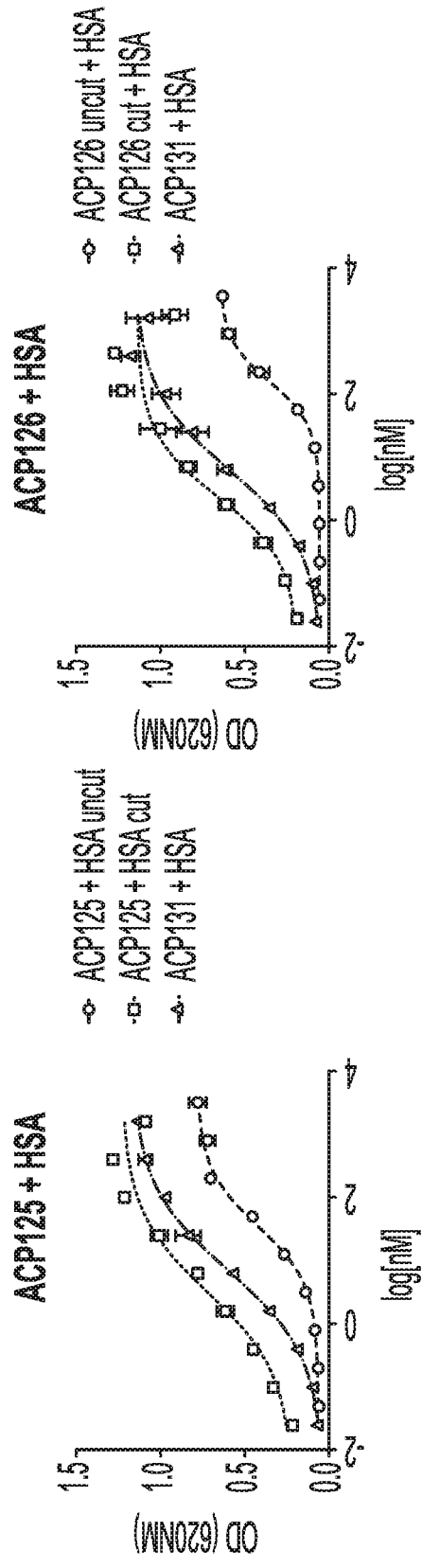


FIG. 27B

FIG. 27C

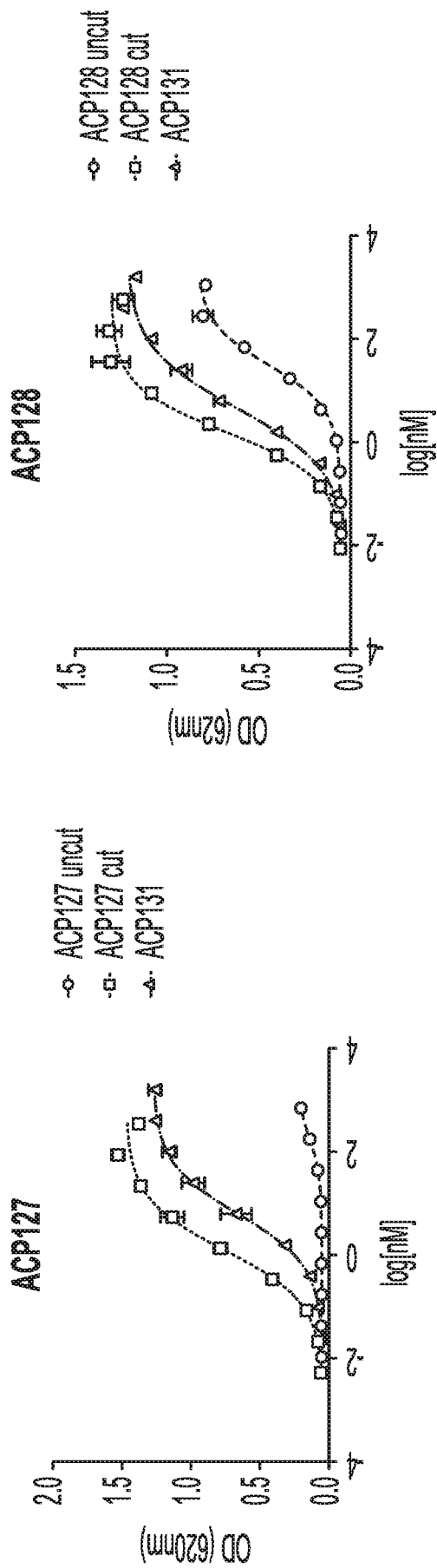


FIG. 27D

FIG. 27E

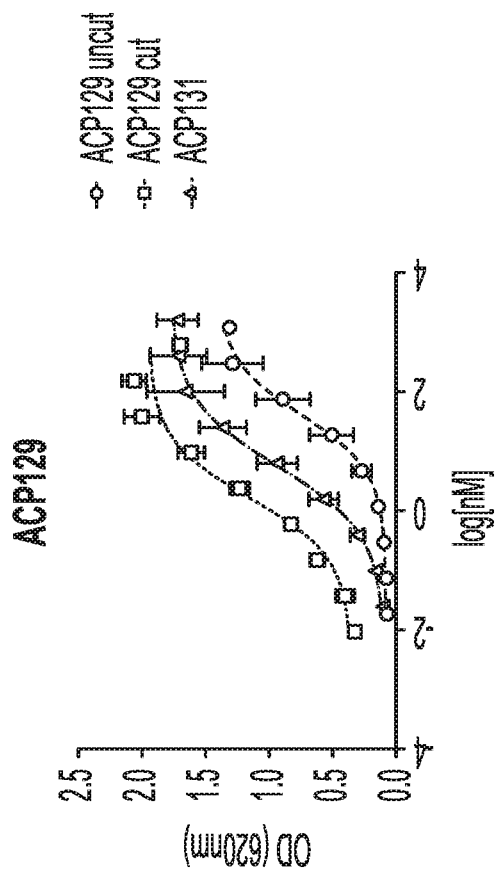


FIG. 27F

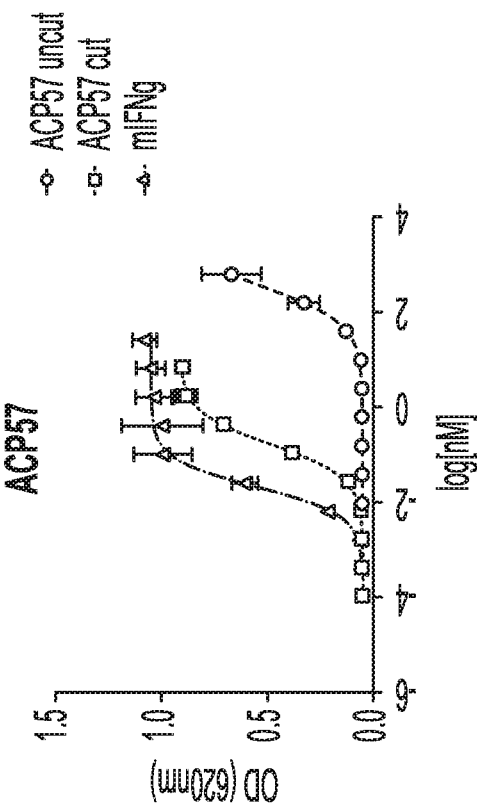


FIG. 28B

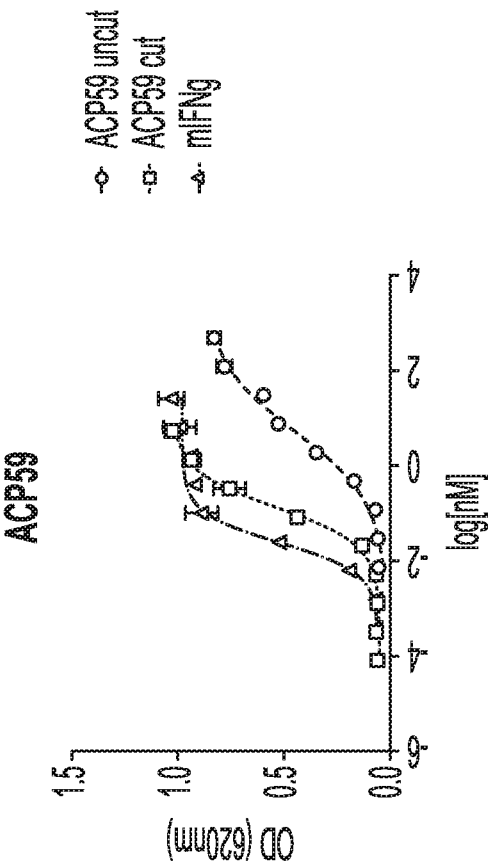


FIG. 28D

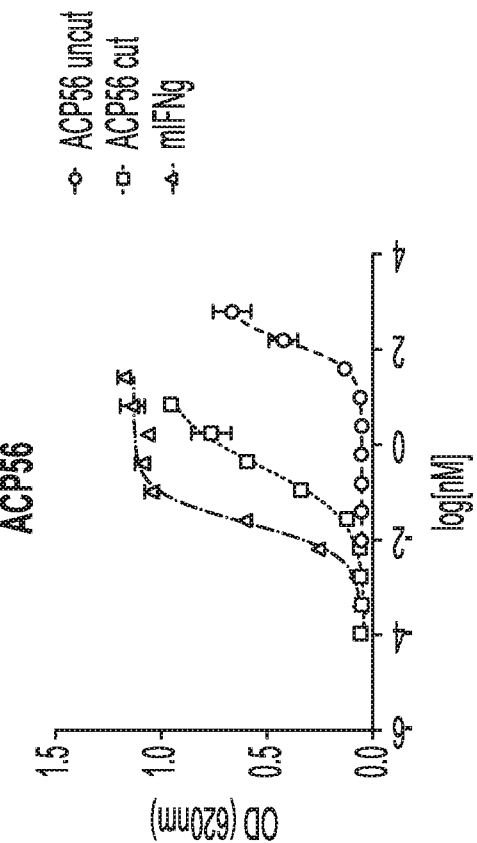


FIG. 28A

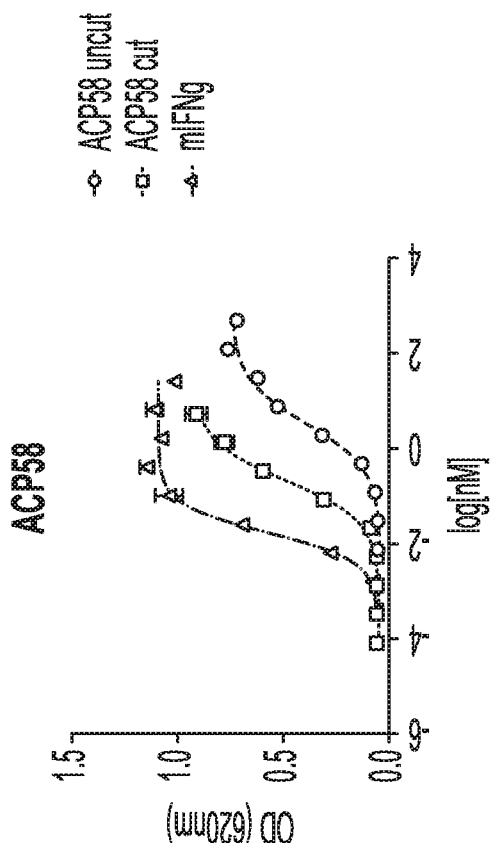


FIG. 28C

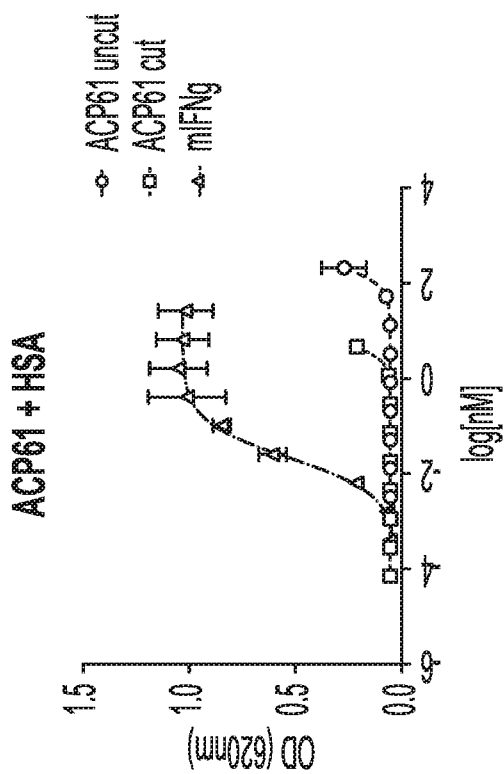


FIG. 28F

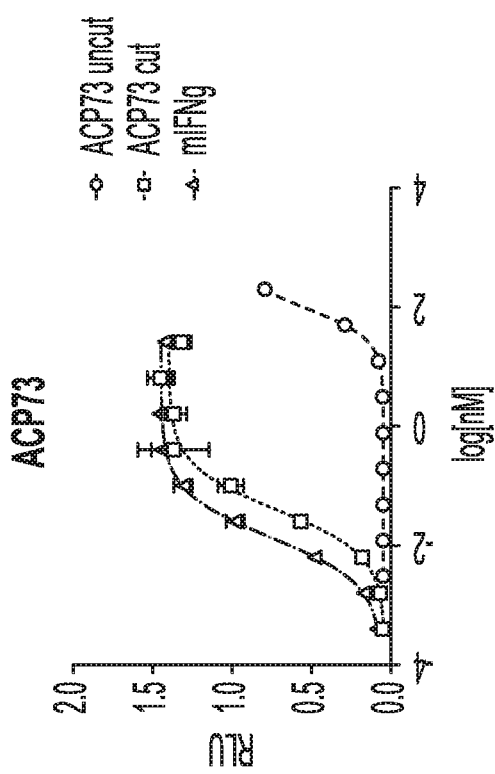


FIG. 28H

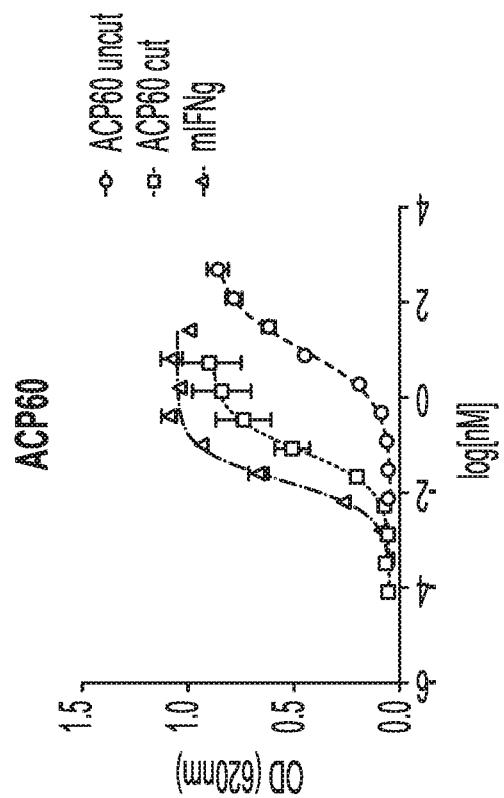


FIG. 28E

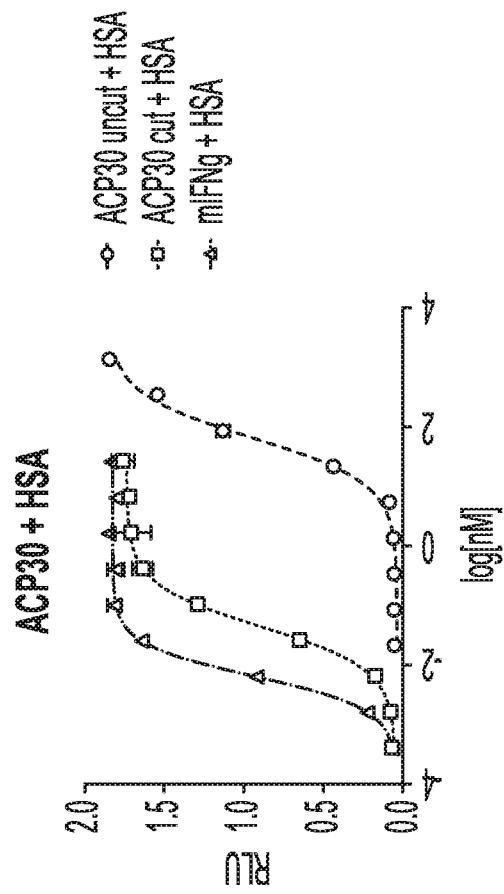


FIG. 28G

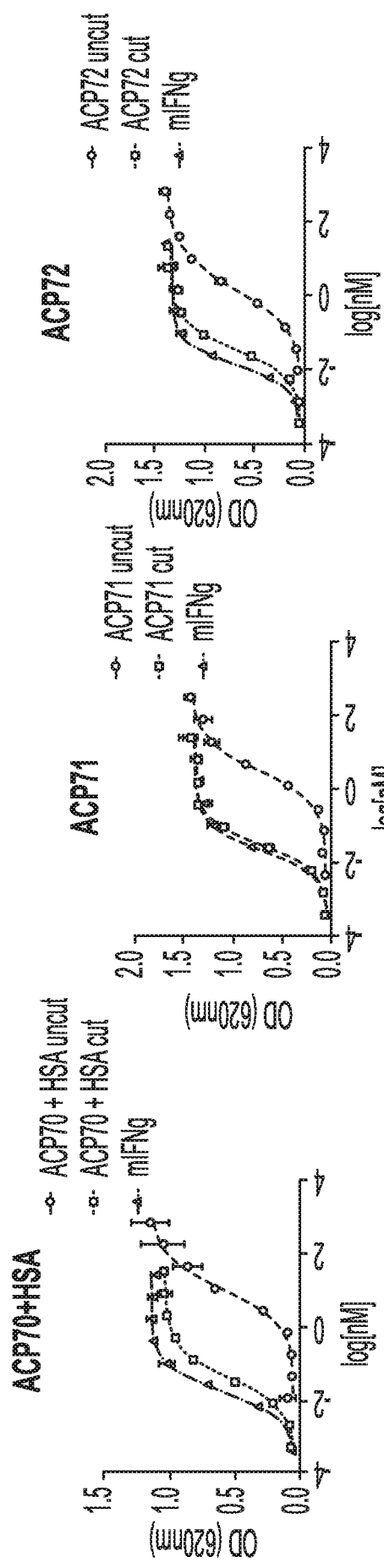


FIG. 28I

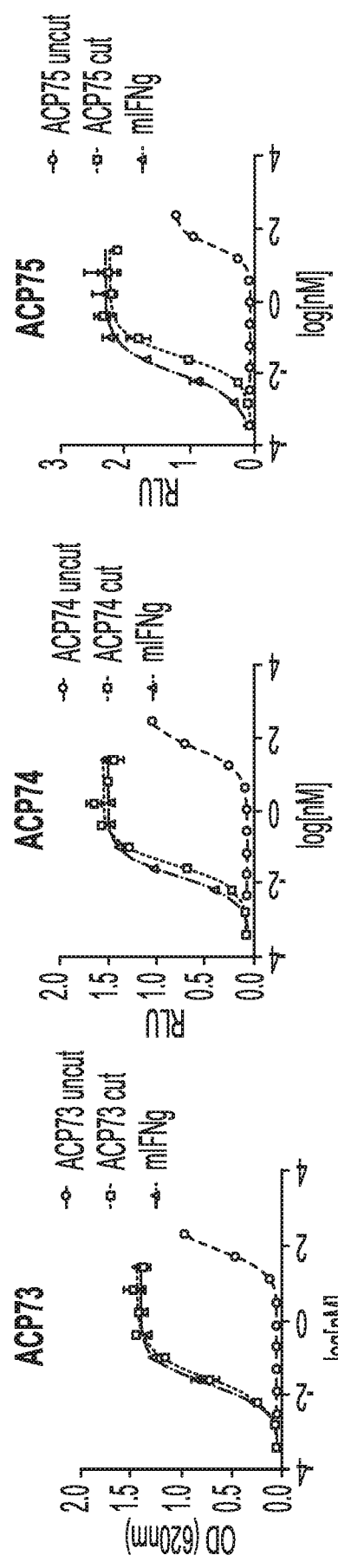


FIG. 28J

FIG. 28K

FIG. 28L

FIG. 28M

FIG. 28N

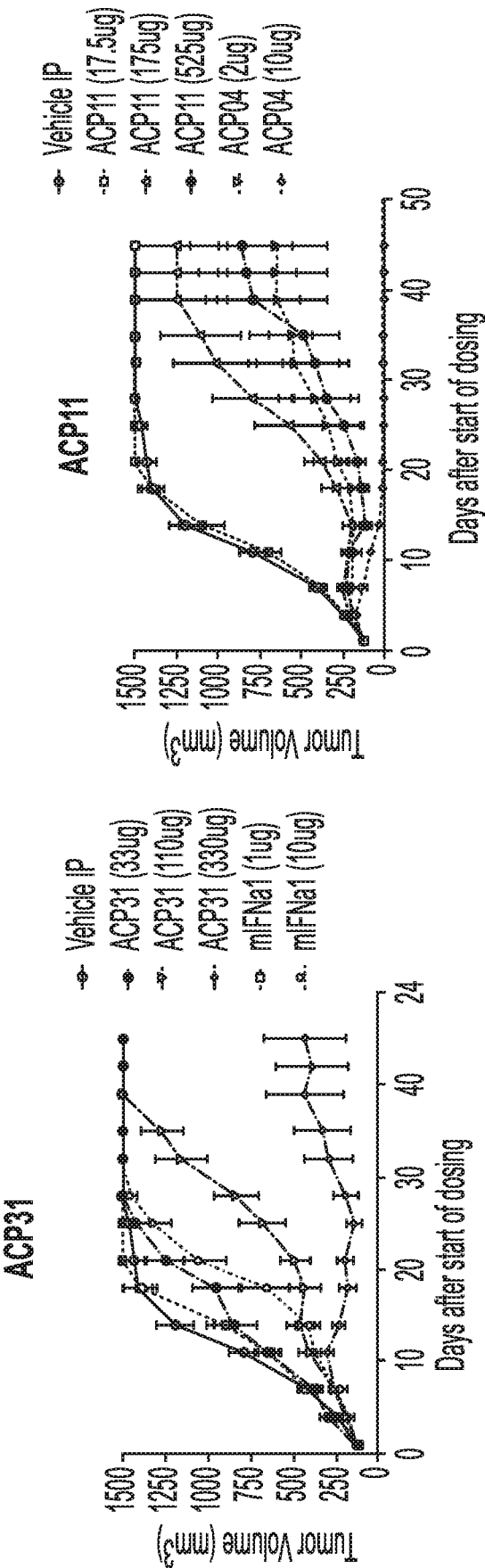


FIG. 29A

FIG. 29B

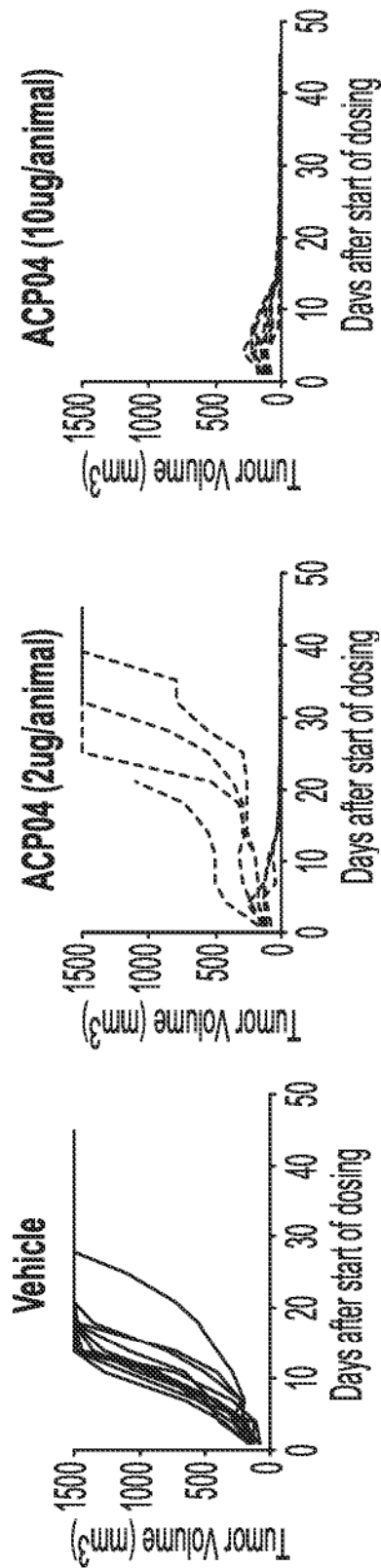


FIG. 30C

FIG. 30B

FIG. 30A

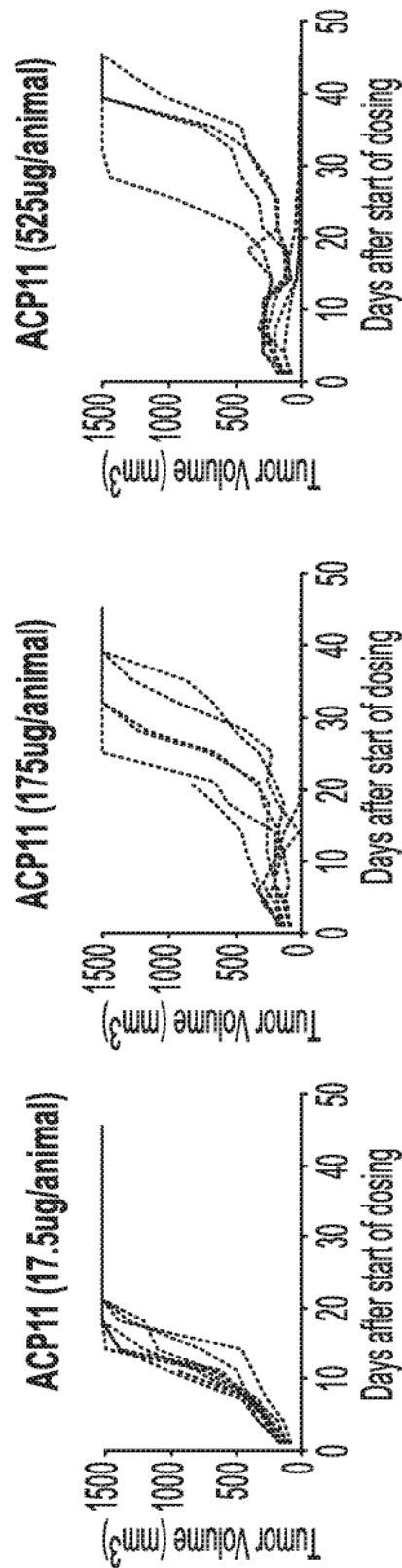


FIG. 30F

FIG. 30E

FIG. 30D

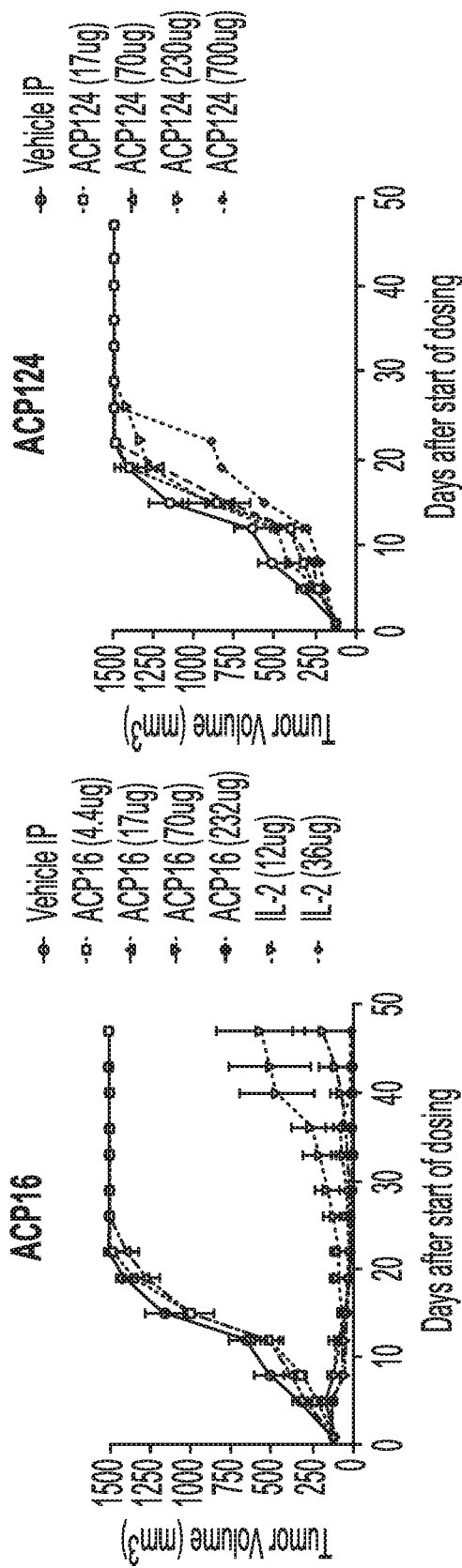


FIG. 31A

FIG. 31B

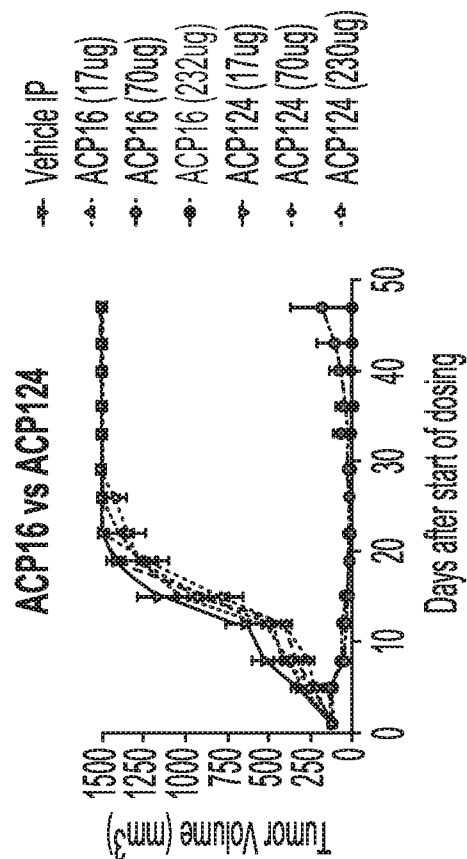


FIG. 31C

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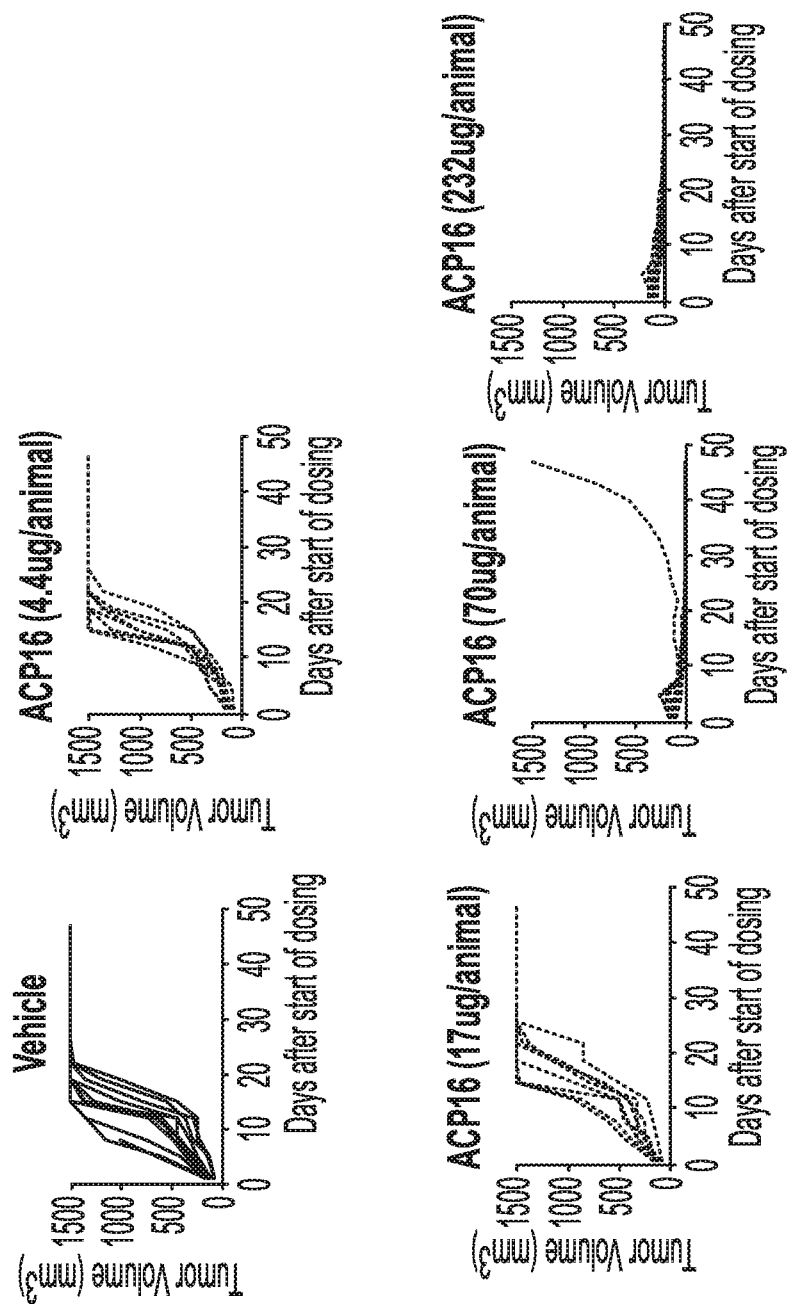


FIG. 32A

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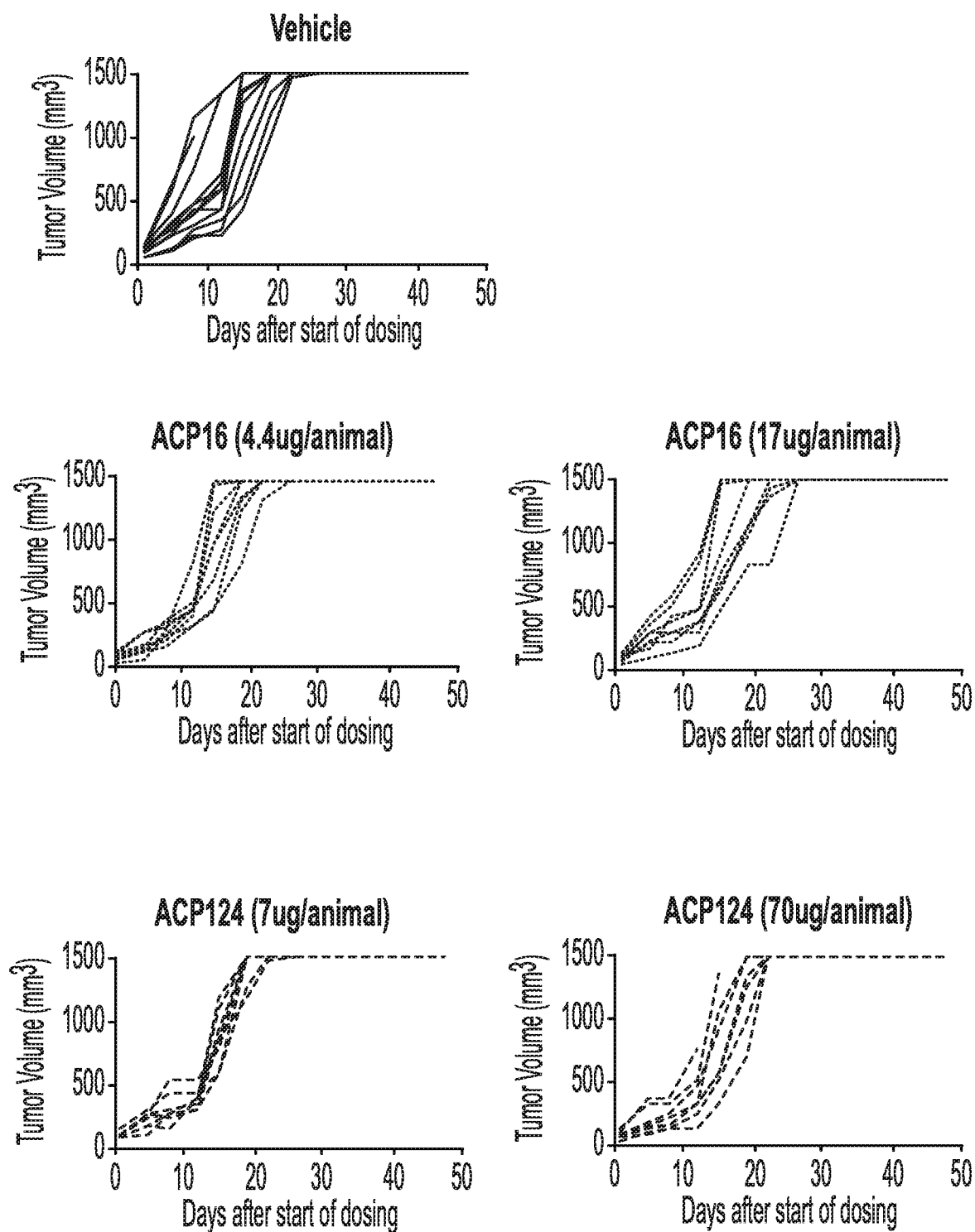


FIG. 32B

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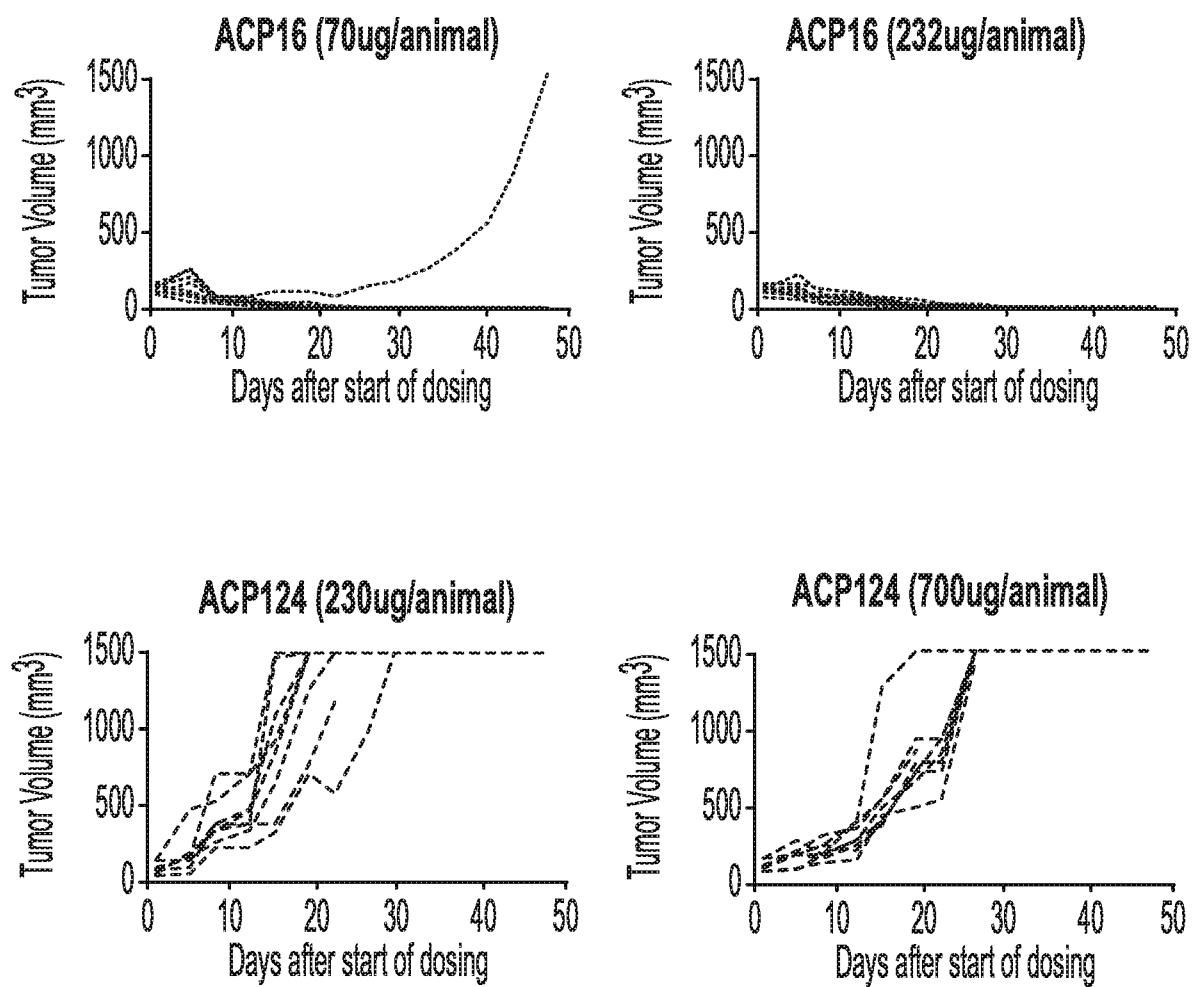


FIG. 32B
Continued

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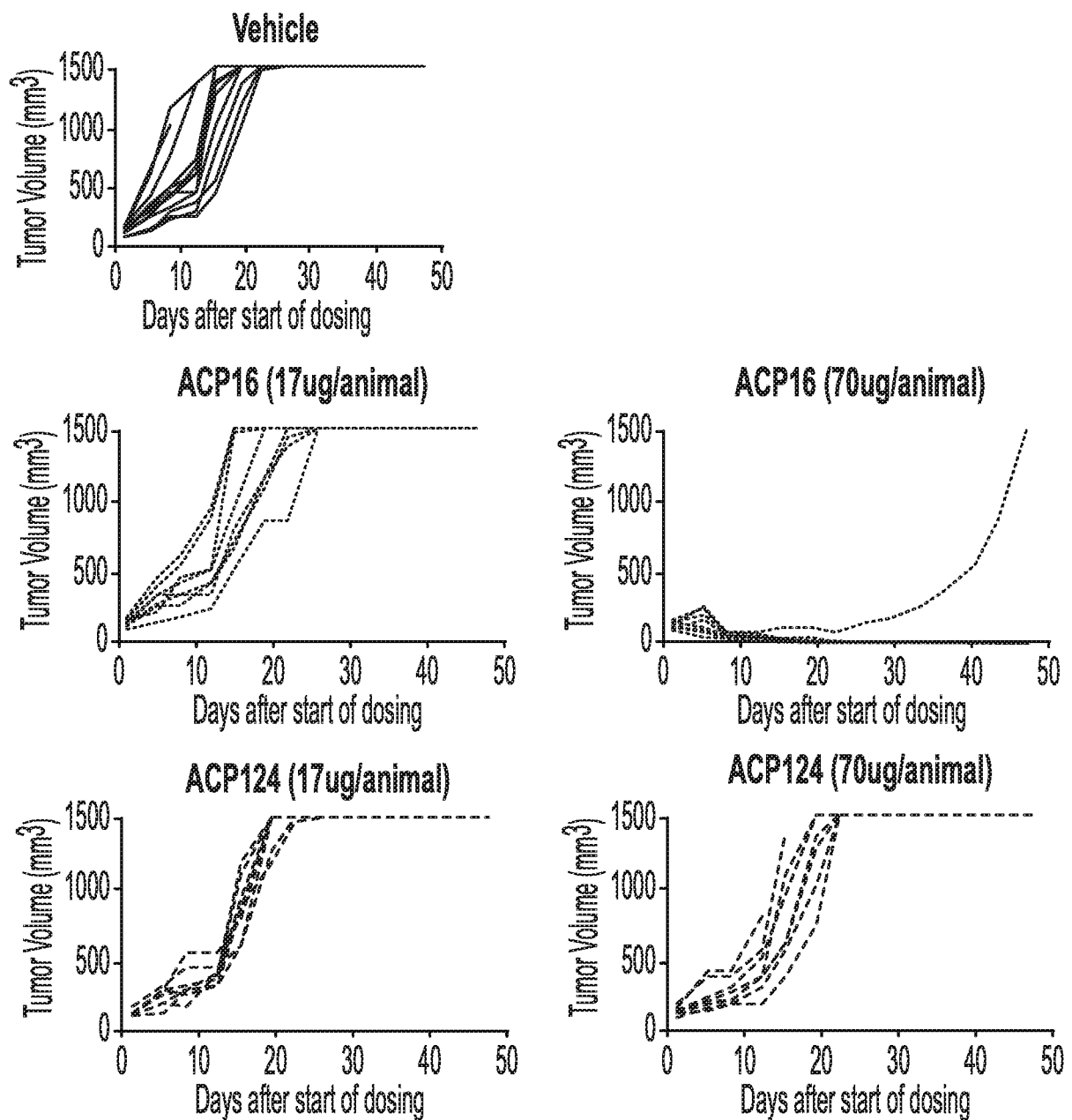


FIG. 32C

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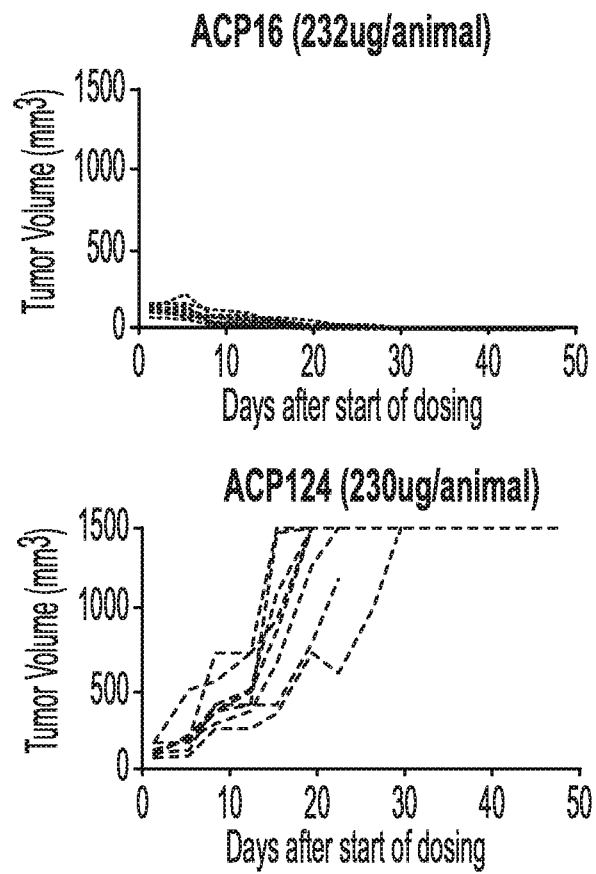
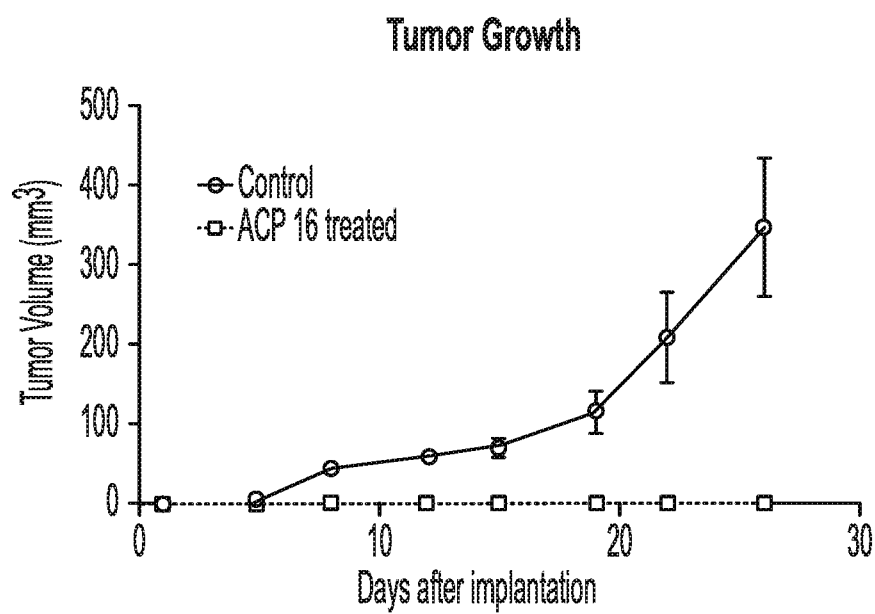


FIG. 32C
Continued

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**FIG. 33**

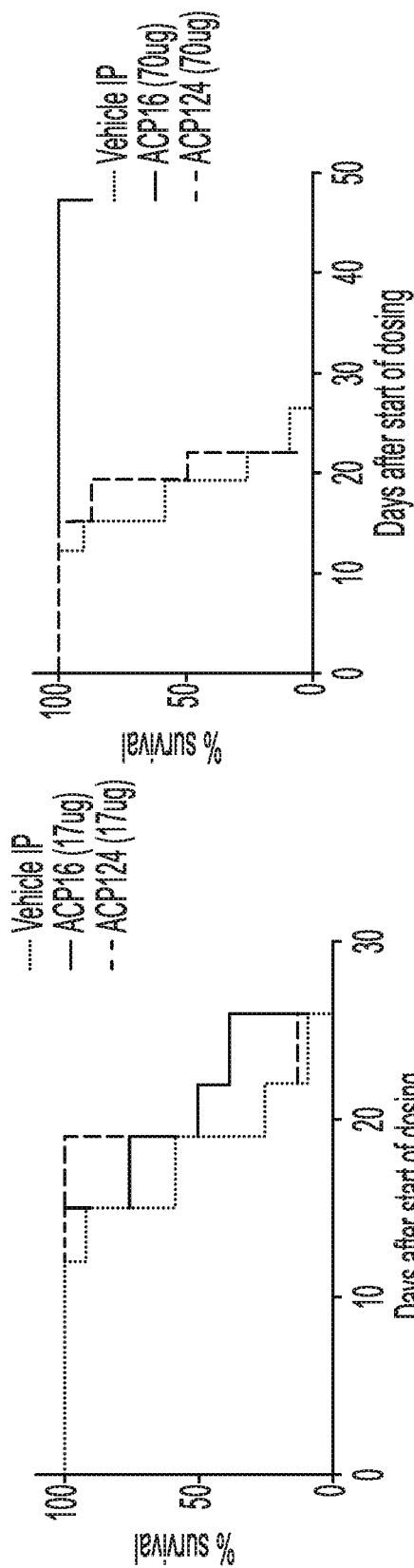


FIG. 34A

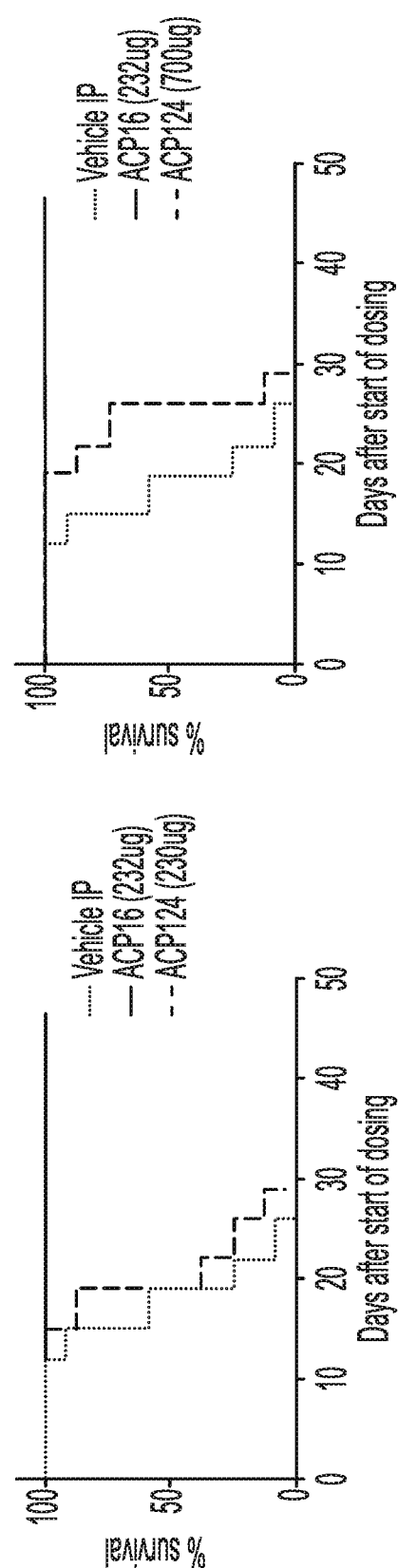


FIG. 34B

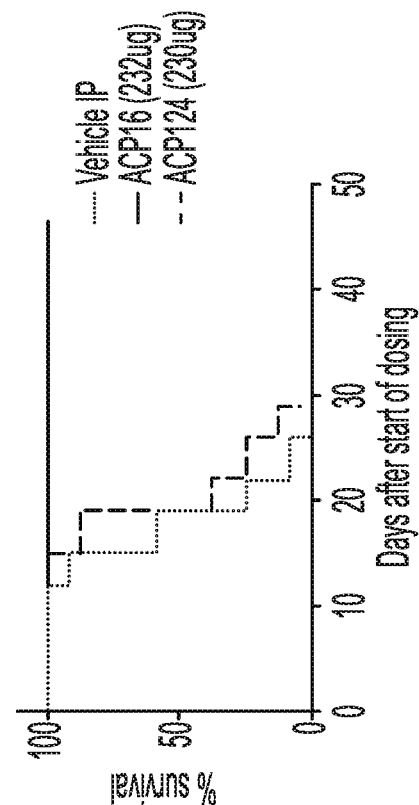


FIG. 34C

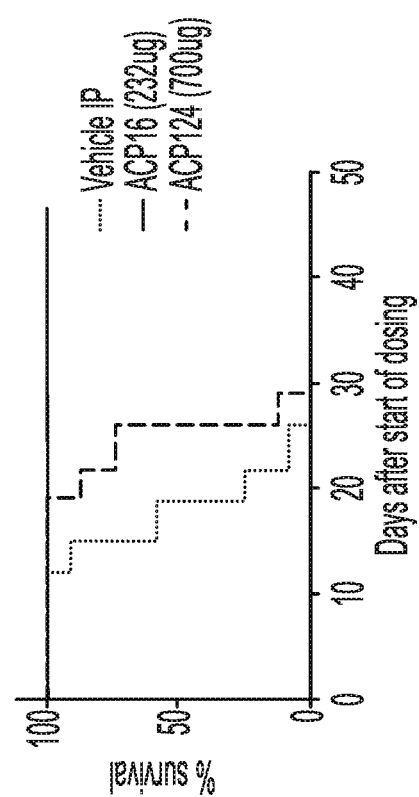


FIG. 34D

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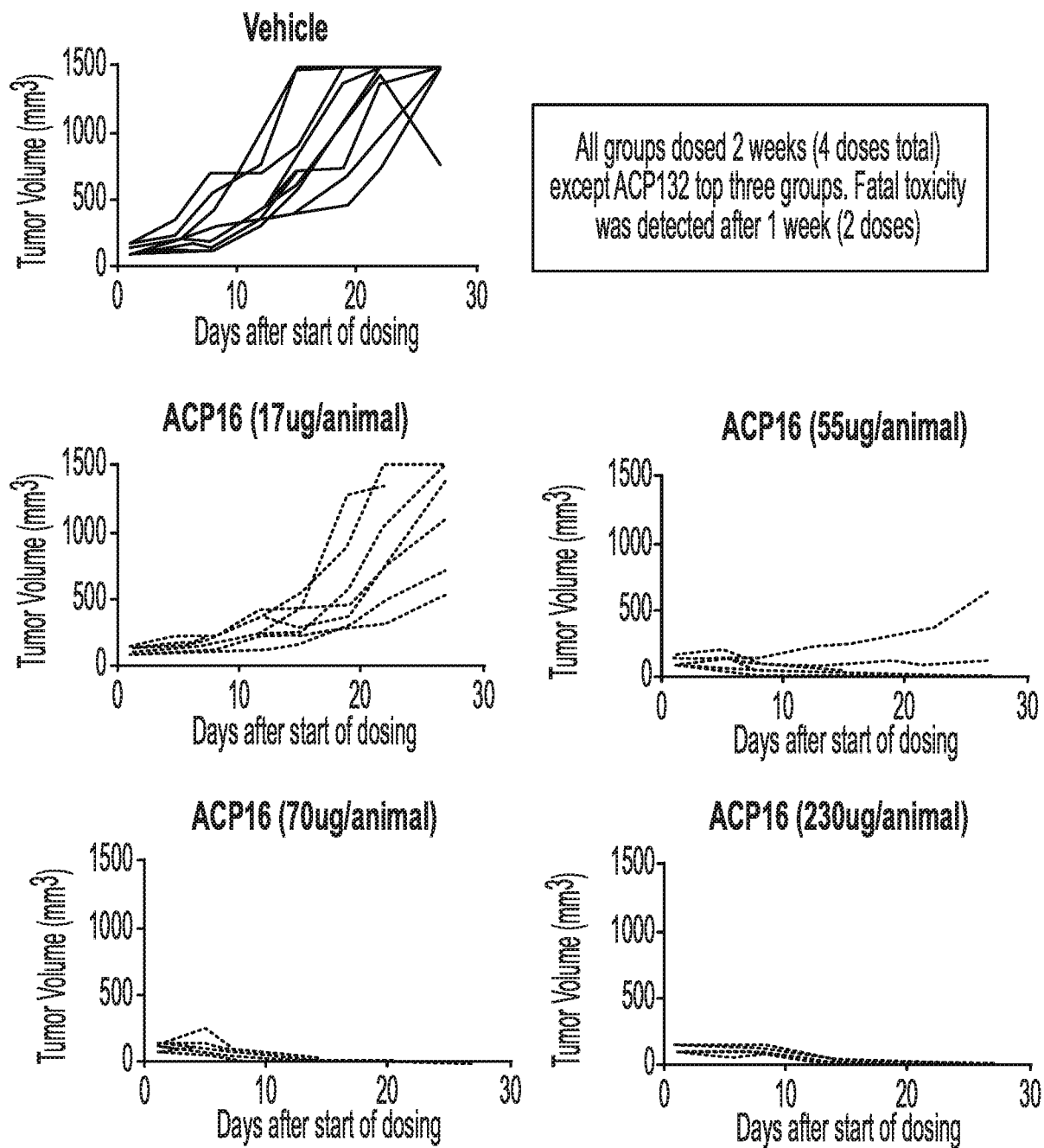


FIG. 35

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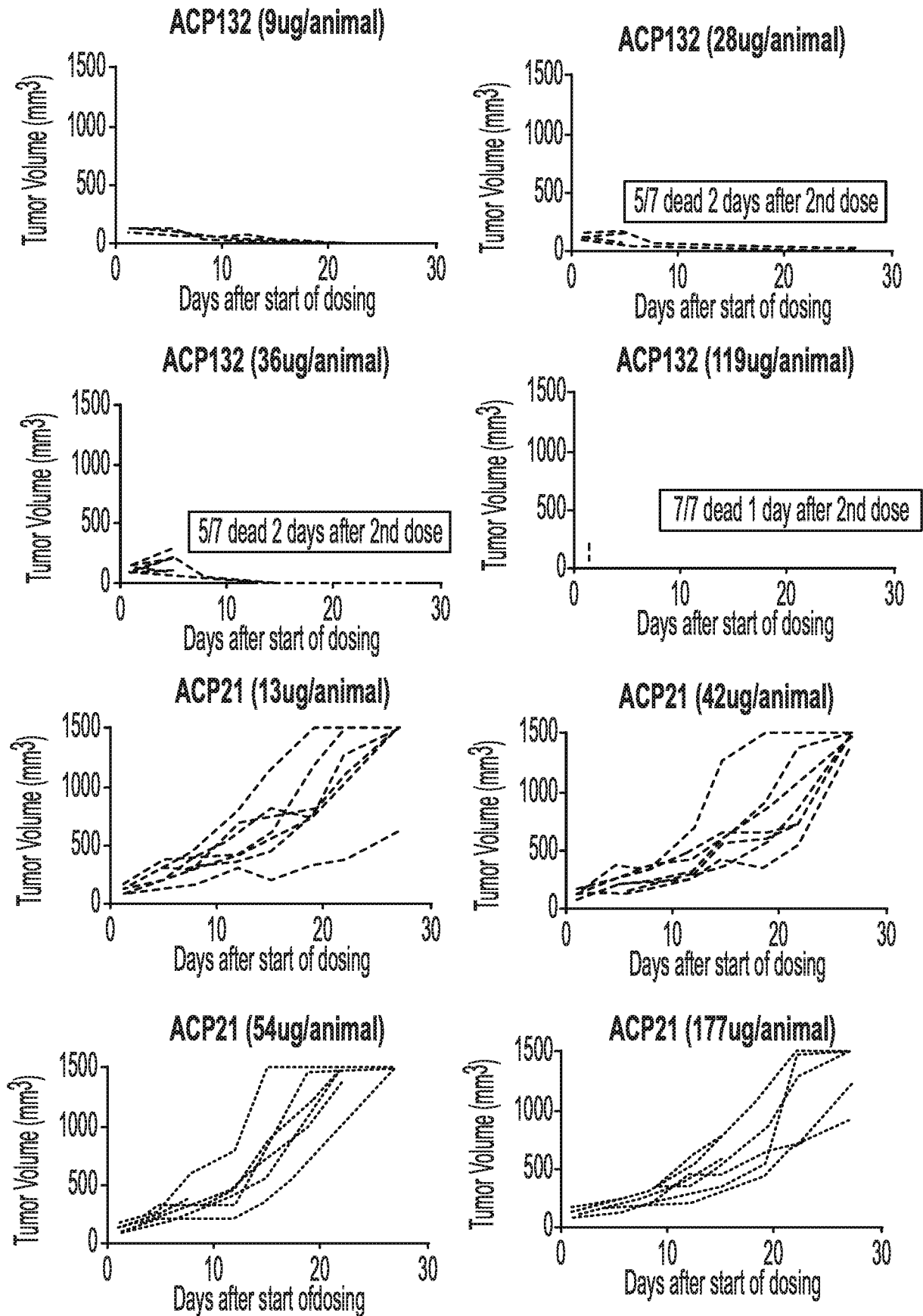


FIG. 35 Continued

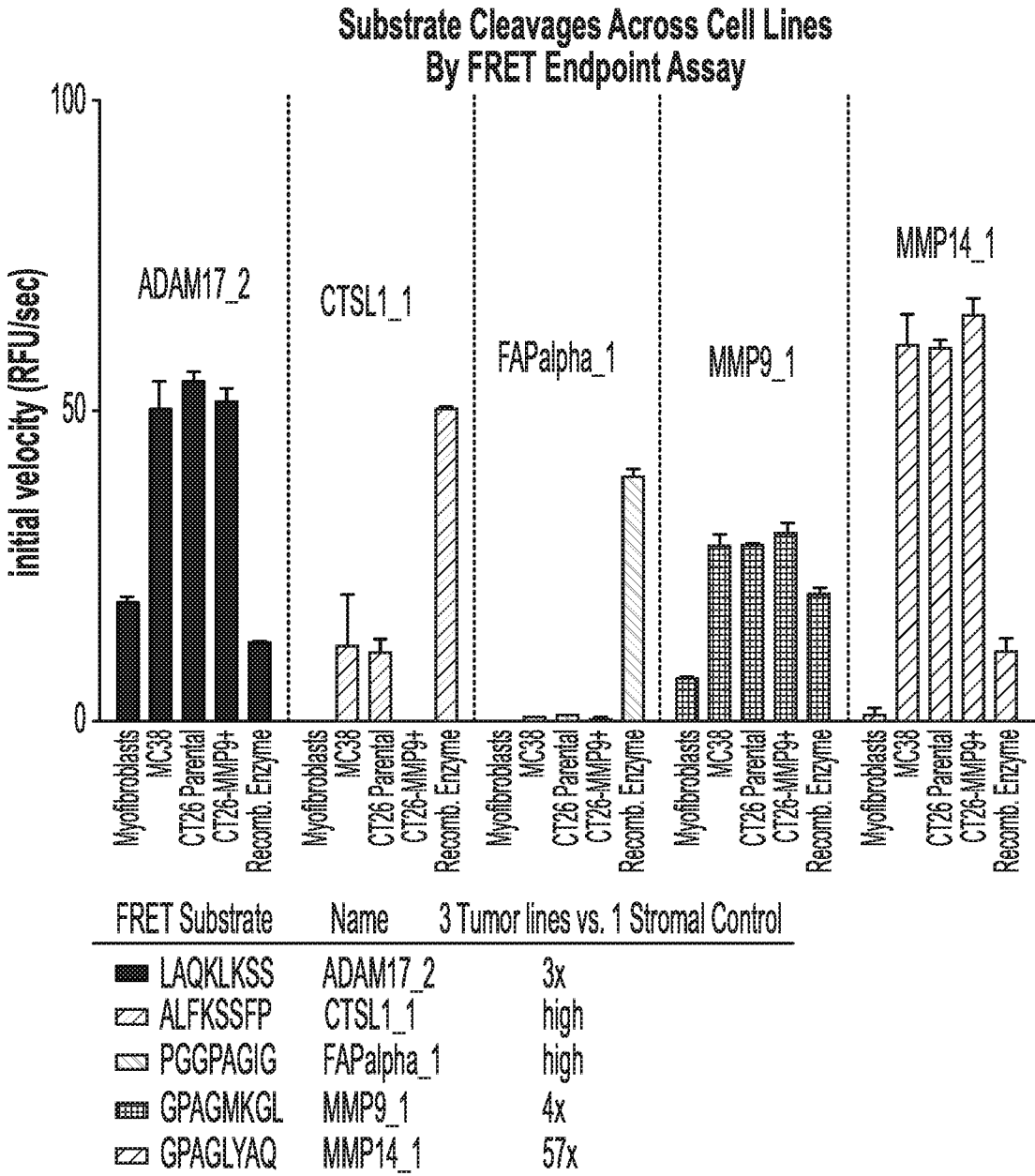


FIG. 36

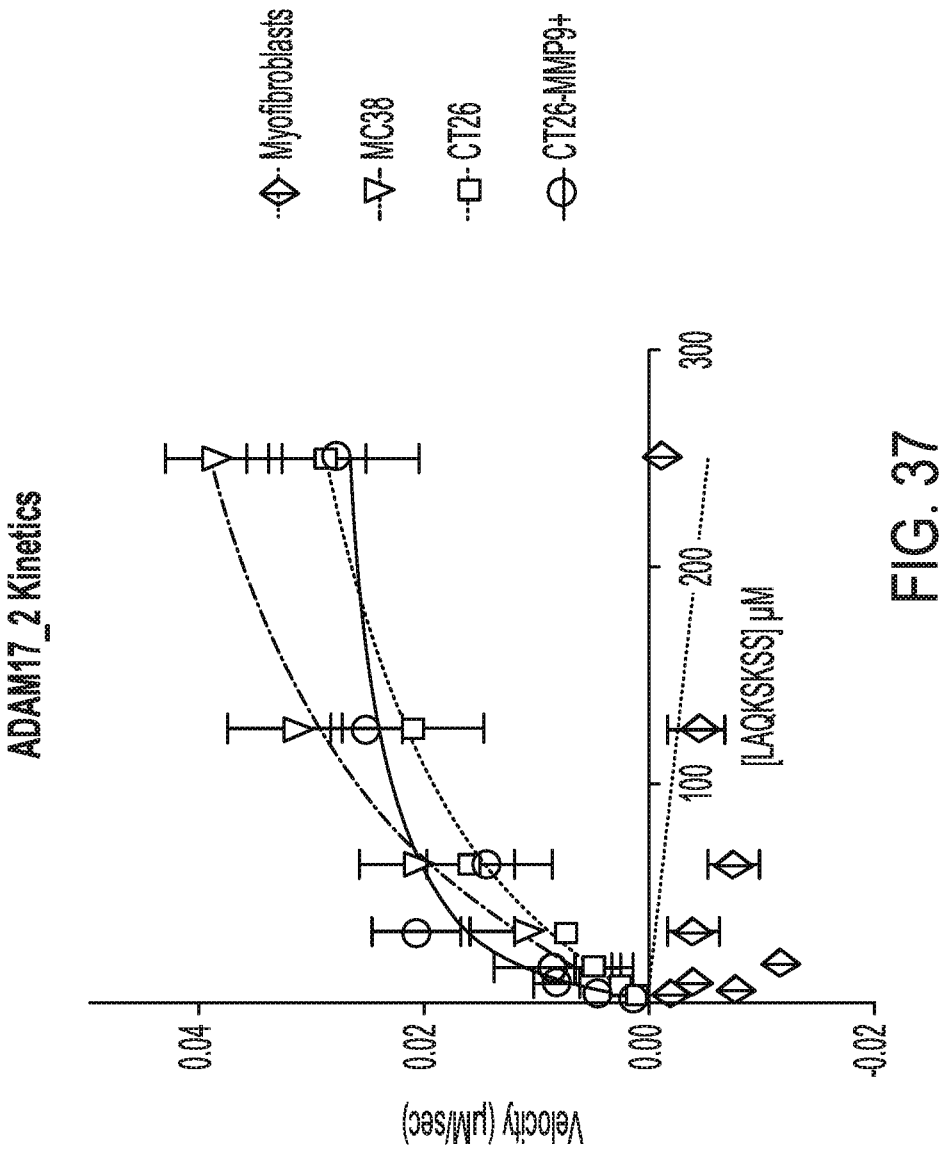


FIG. 37

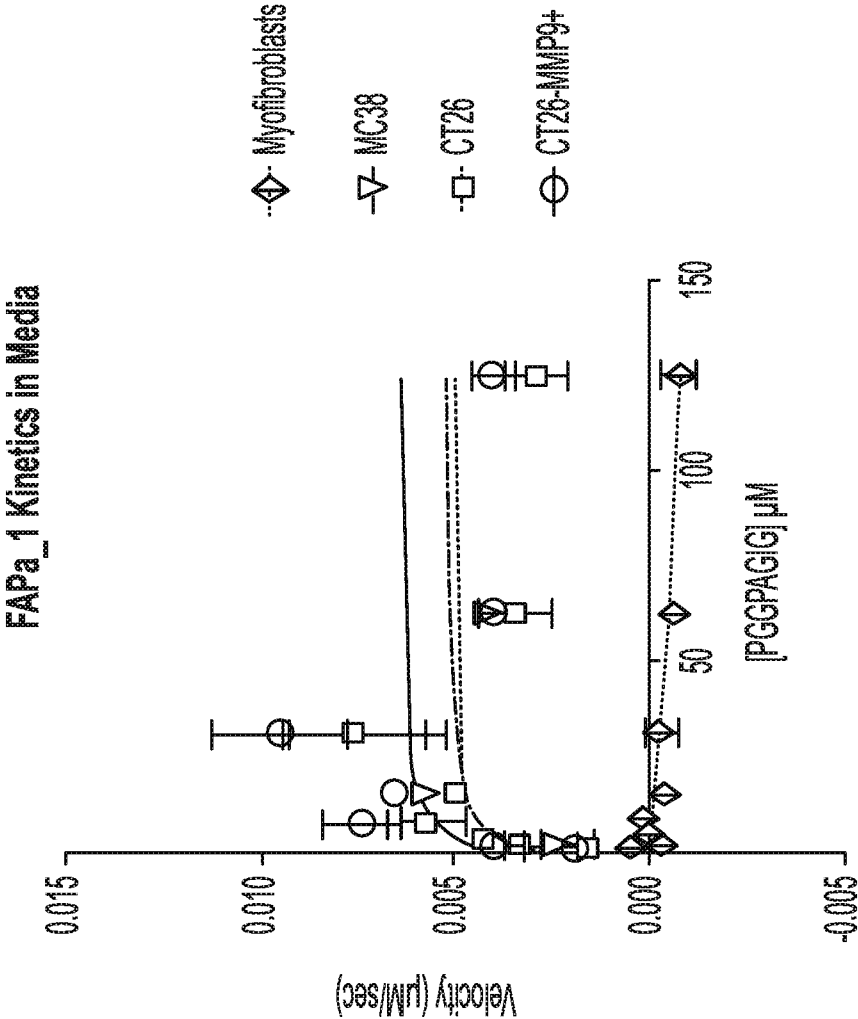


FIG. 38

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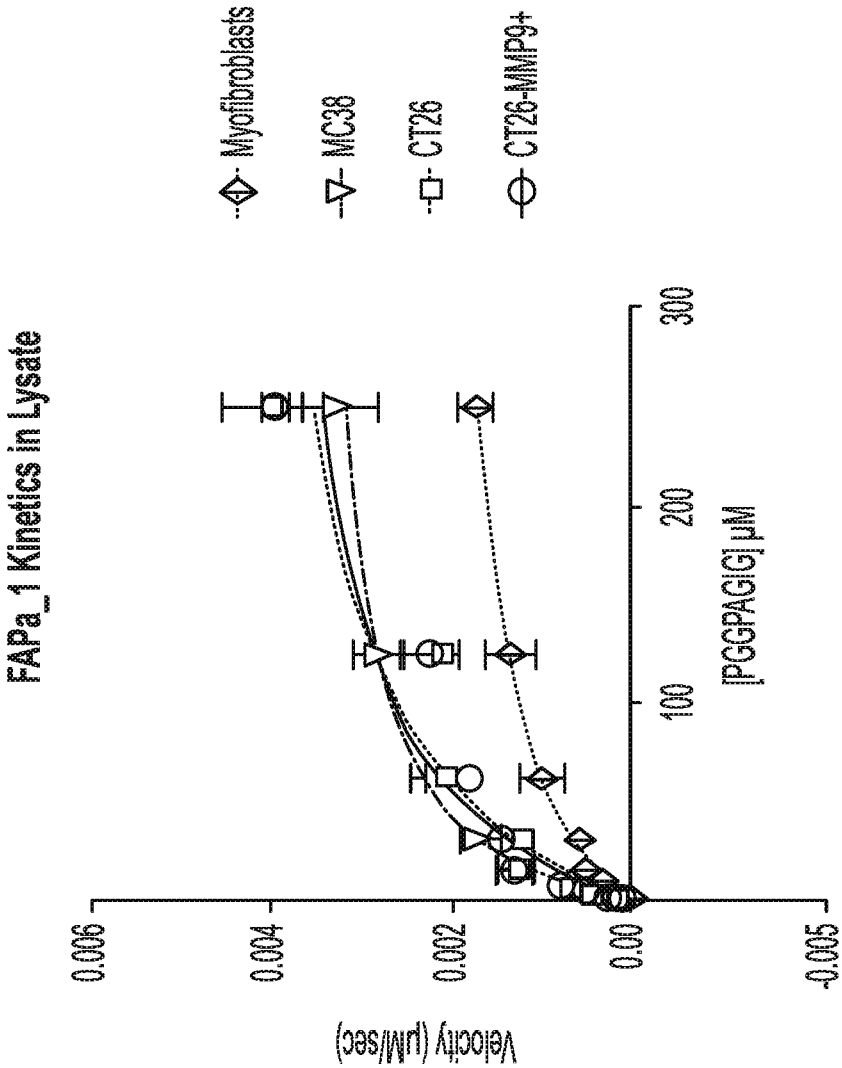


FIG. 39

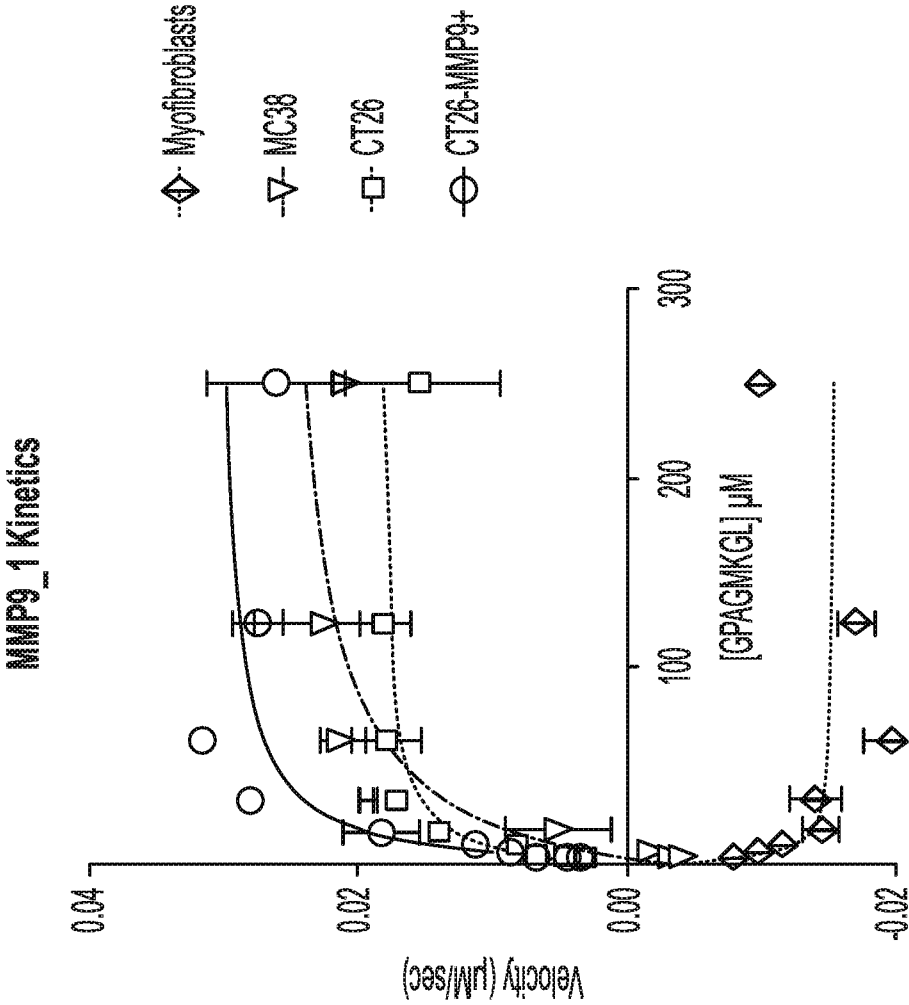


FIG. 40

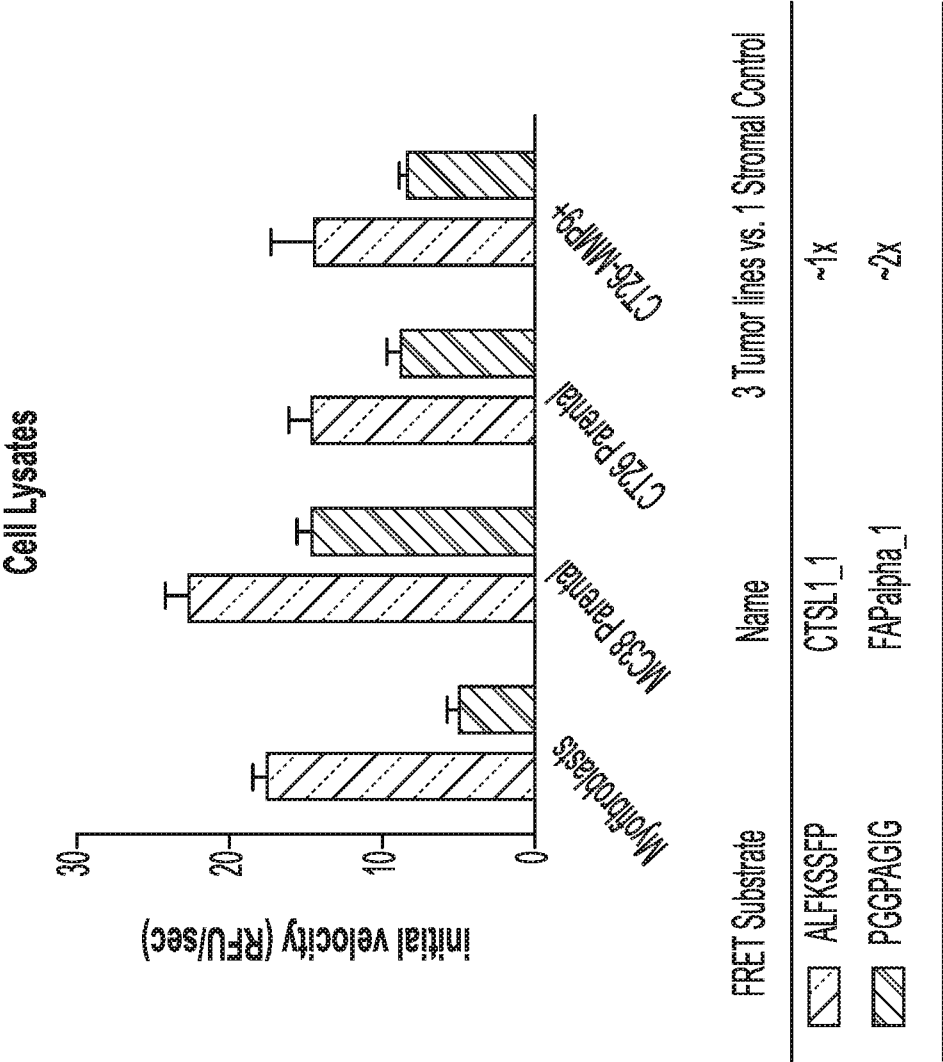


FIG. 41

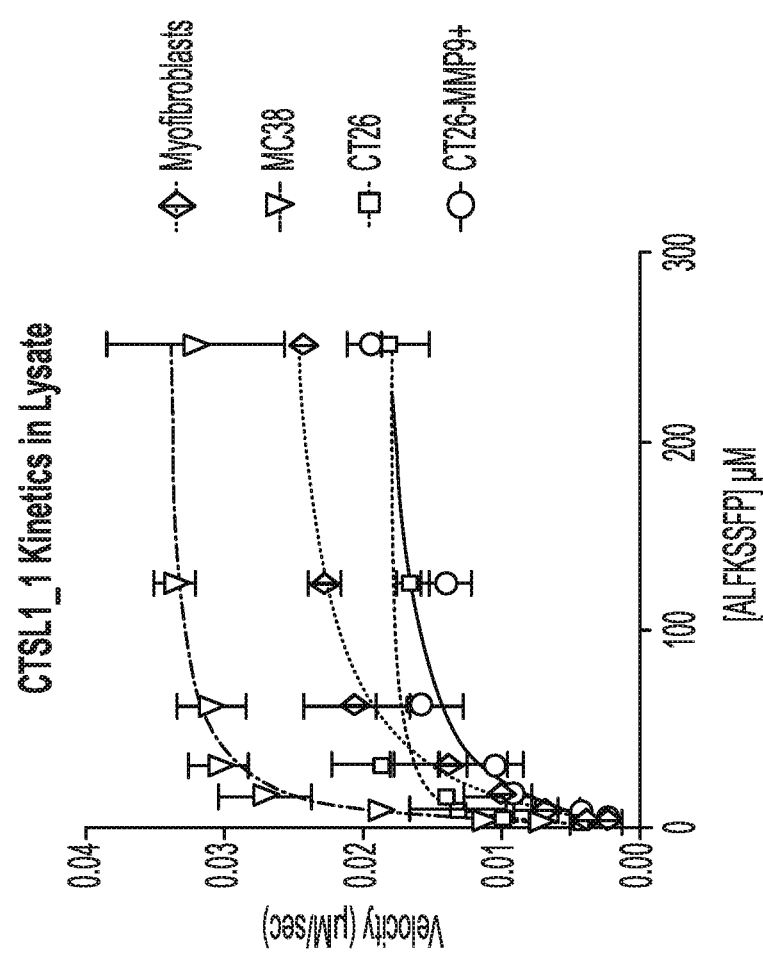


FIG. 42

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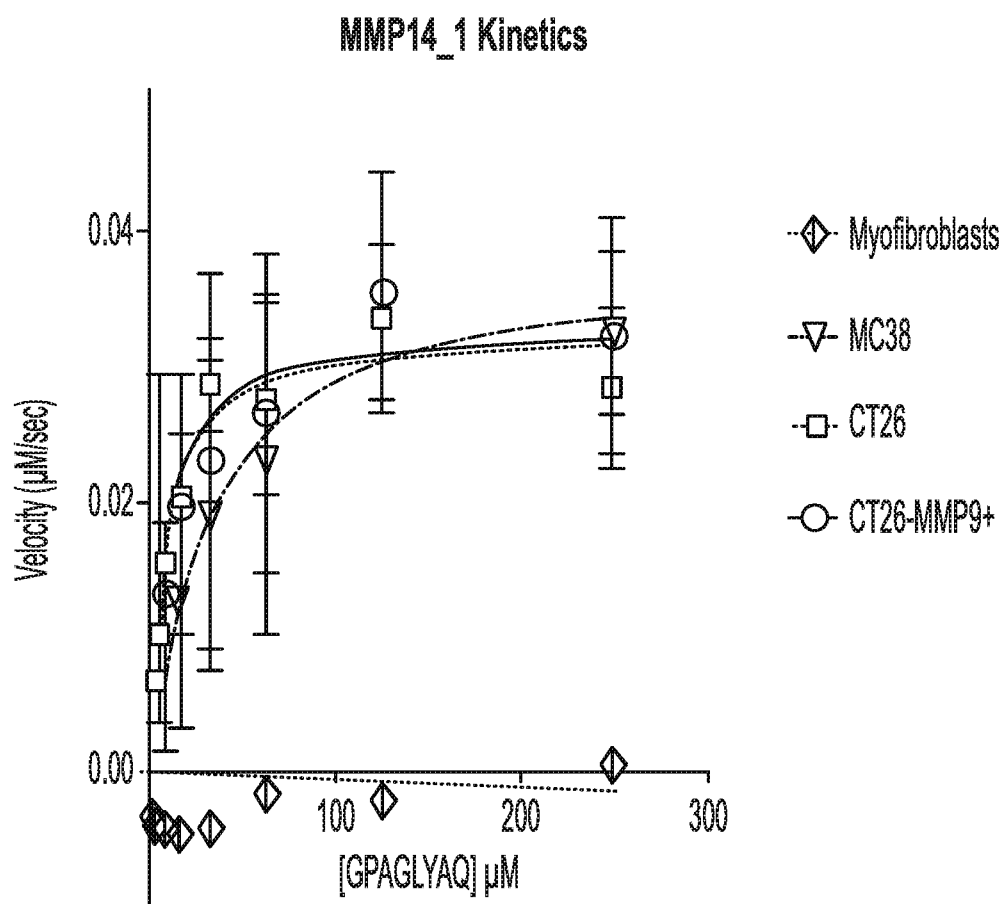
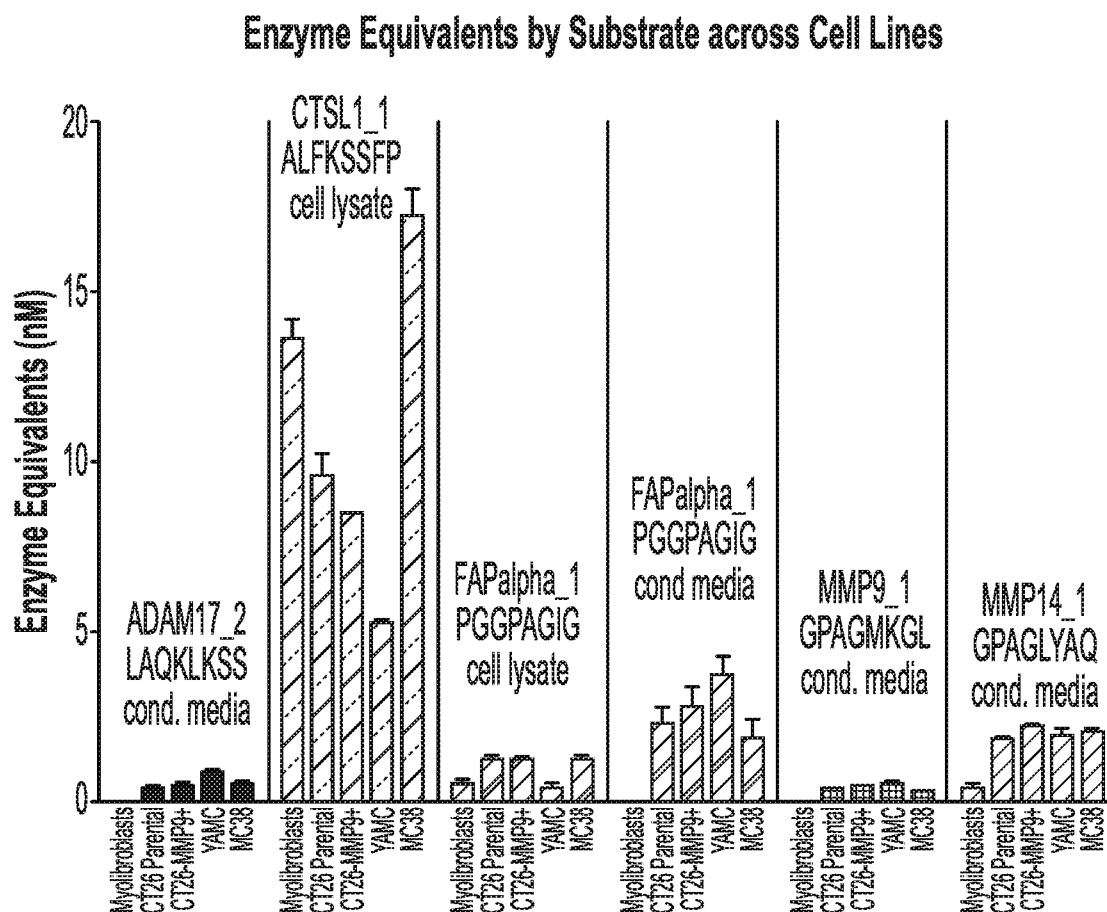


FIG. 43

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Substrate & Sample	ADAM17_2 cond media		CTSL1_1 cell lysate		FAPa_1 cell lysate		FAPa_1 cond media		MMP9_1 cond media		MMP14_1 cond media	
	Mean	SEM	Mean	SEM	Mean	SEM	Mean	SEM	Mean	SEM	Mean	SEM
Myofibroblasts	0.00	0.00	13.65	0.61	0.58	0.05	0.00	0.00	0.00	0.00	0.21	0.11
CT26 Parental	0.26	0.02	9.63	0.64	1.22	0.11	1.42	0.24	0.21	0.01	1.10	0.05
CT26-MMP9+	0.30	0.02	8.55	0.65	1.23	0.09	1.71	0.30	0.28	0.01	1.34	0.05
YAMC	0.52	0.03	5.29	0.05	0.45	0.06	2.27	0.32	0.34	0.01	1.19	0.10
MC38	0.32	0.03	17.34	0.82	1.26	0.08	1.10	0.35	0.21	0.01	1.23	0.07

FIG. 44

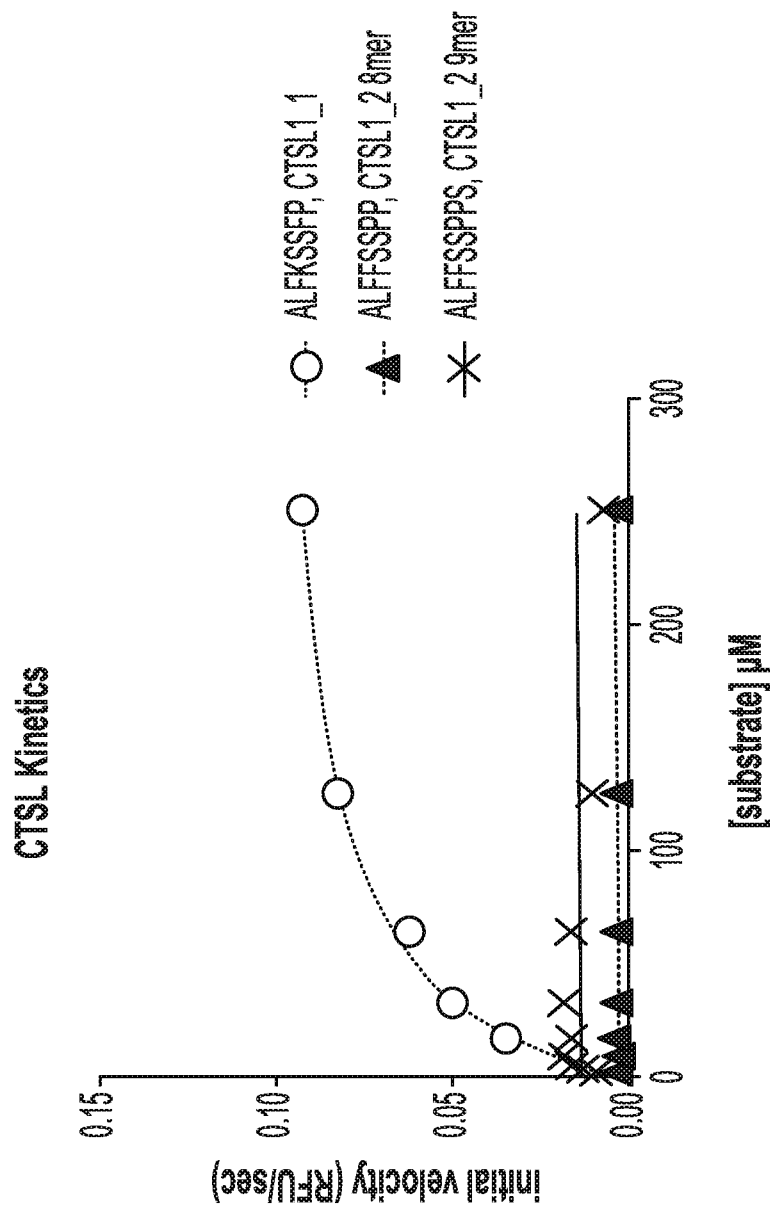


FIG. 45

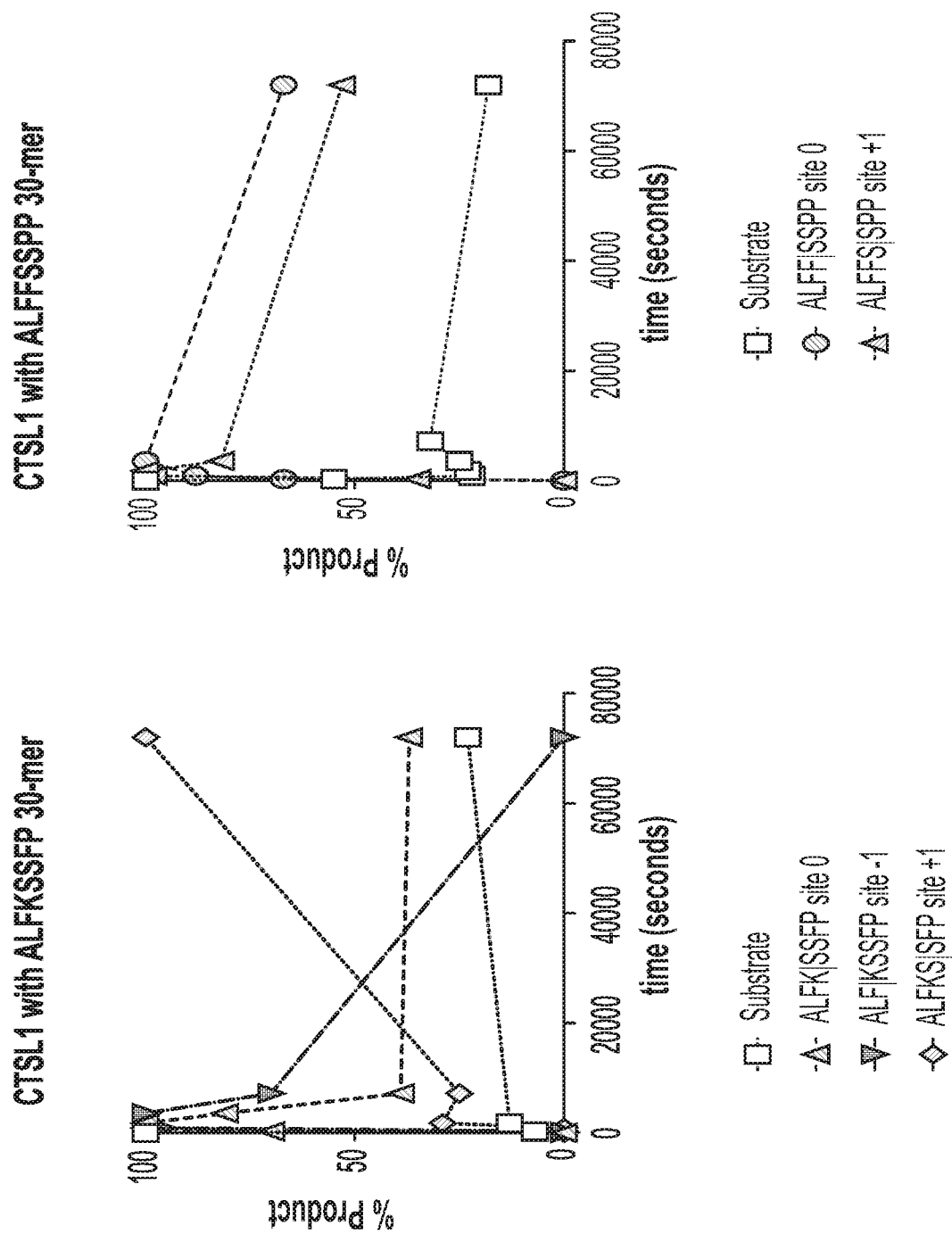


FIG. 46

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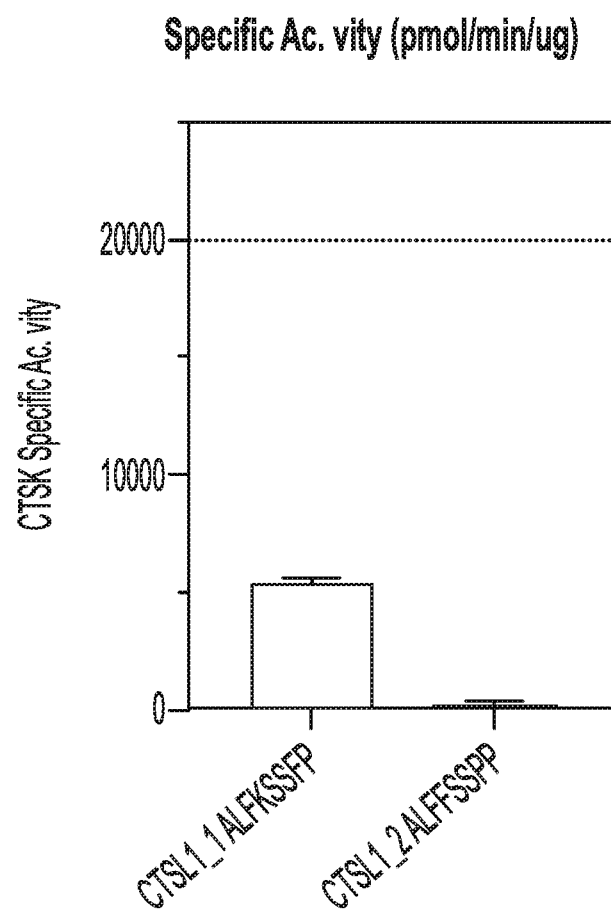


FIG. 47

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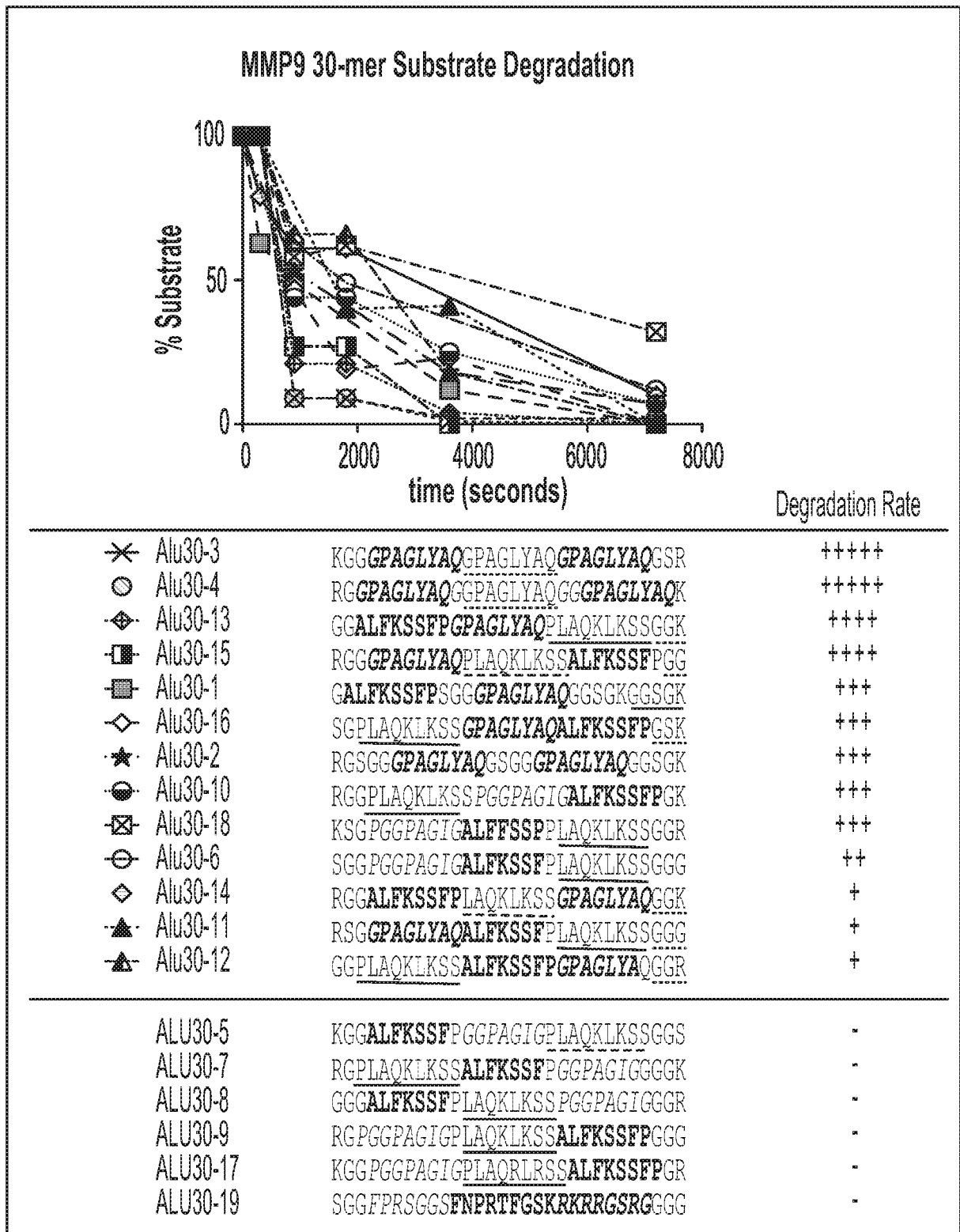


FIG. 48

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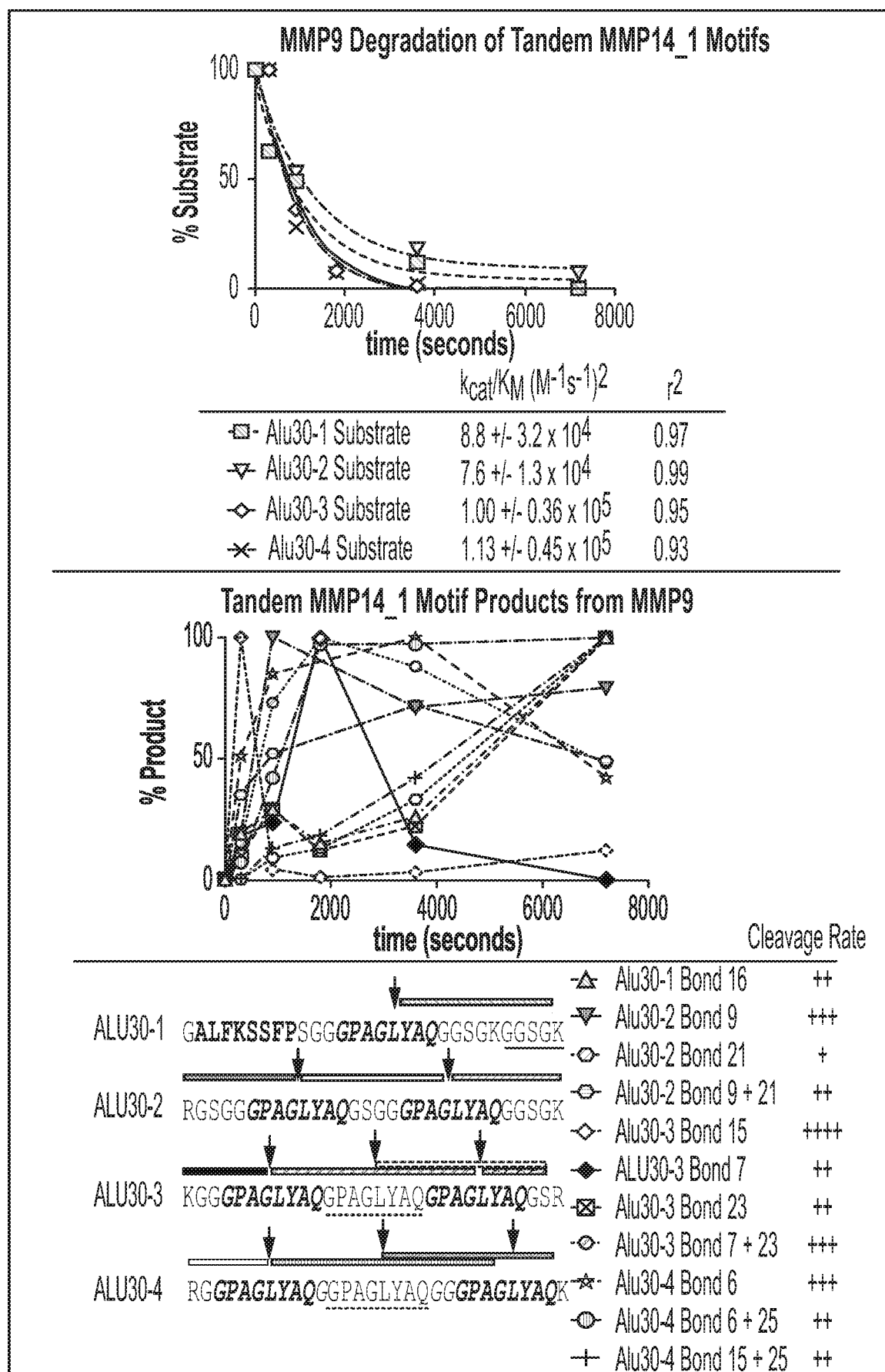


FIG. 49

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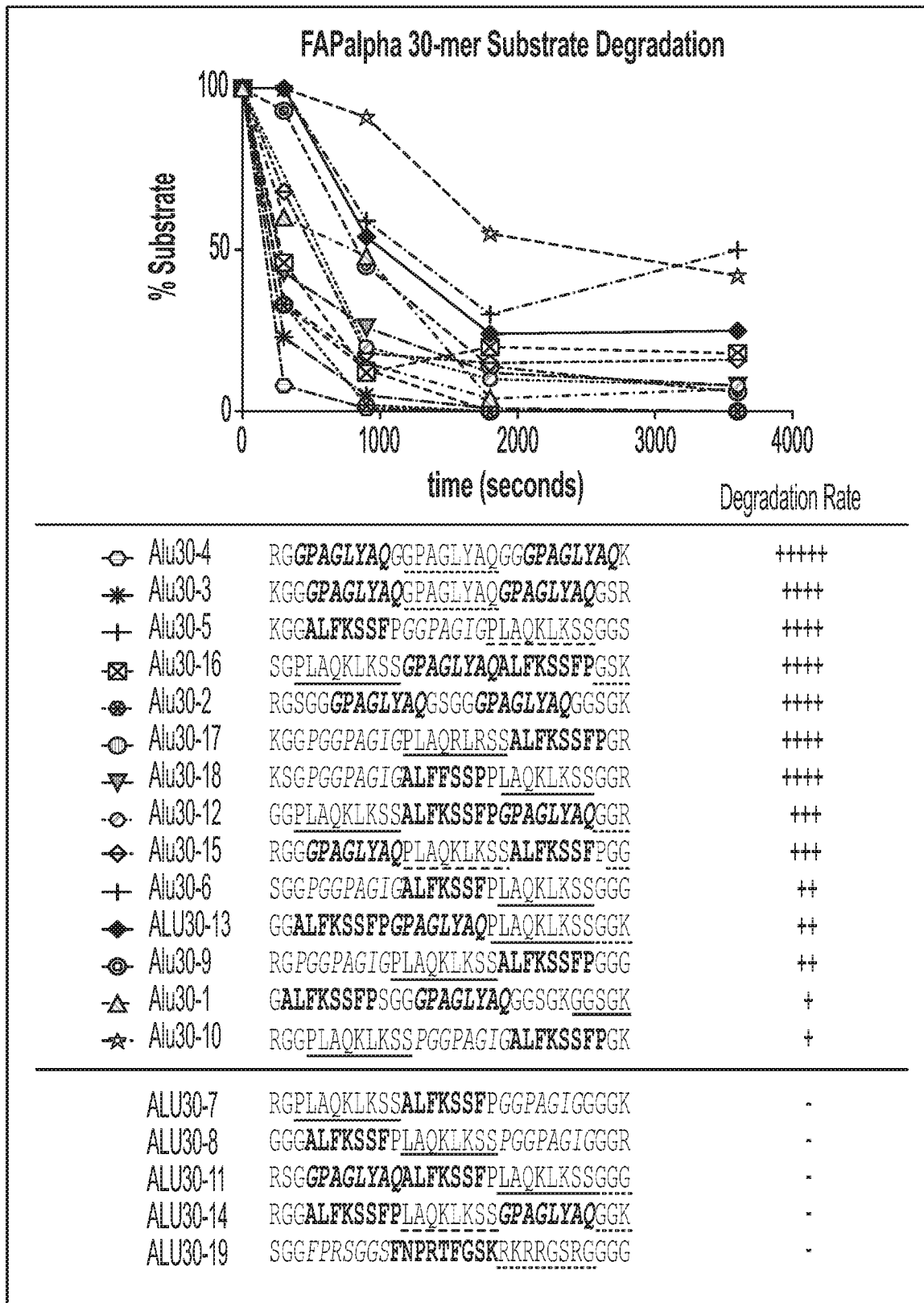


FIG. 50

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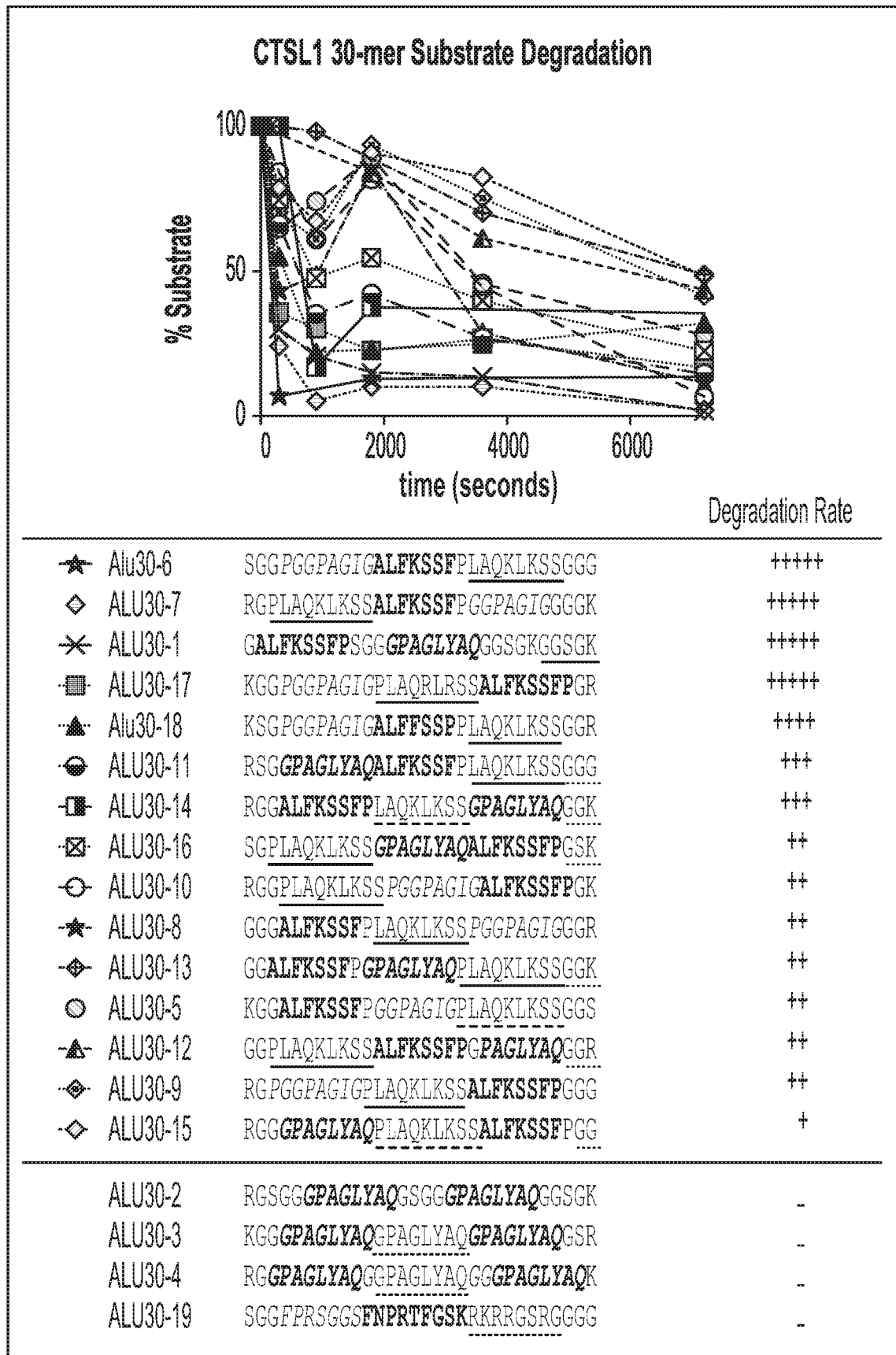


FIG. 51

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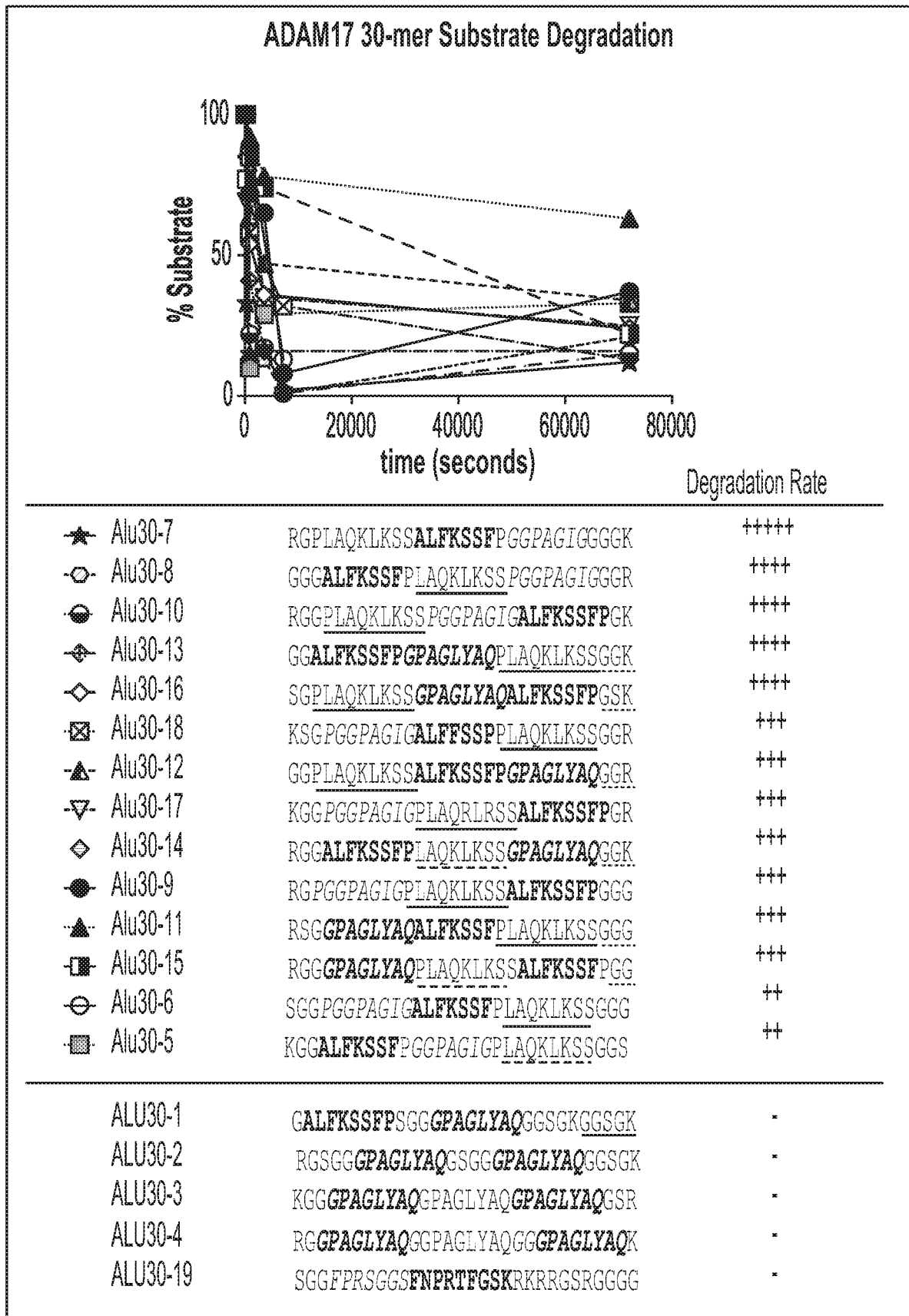


FIG. 52

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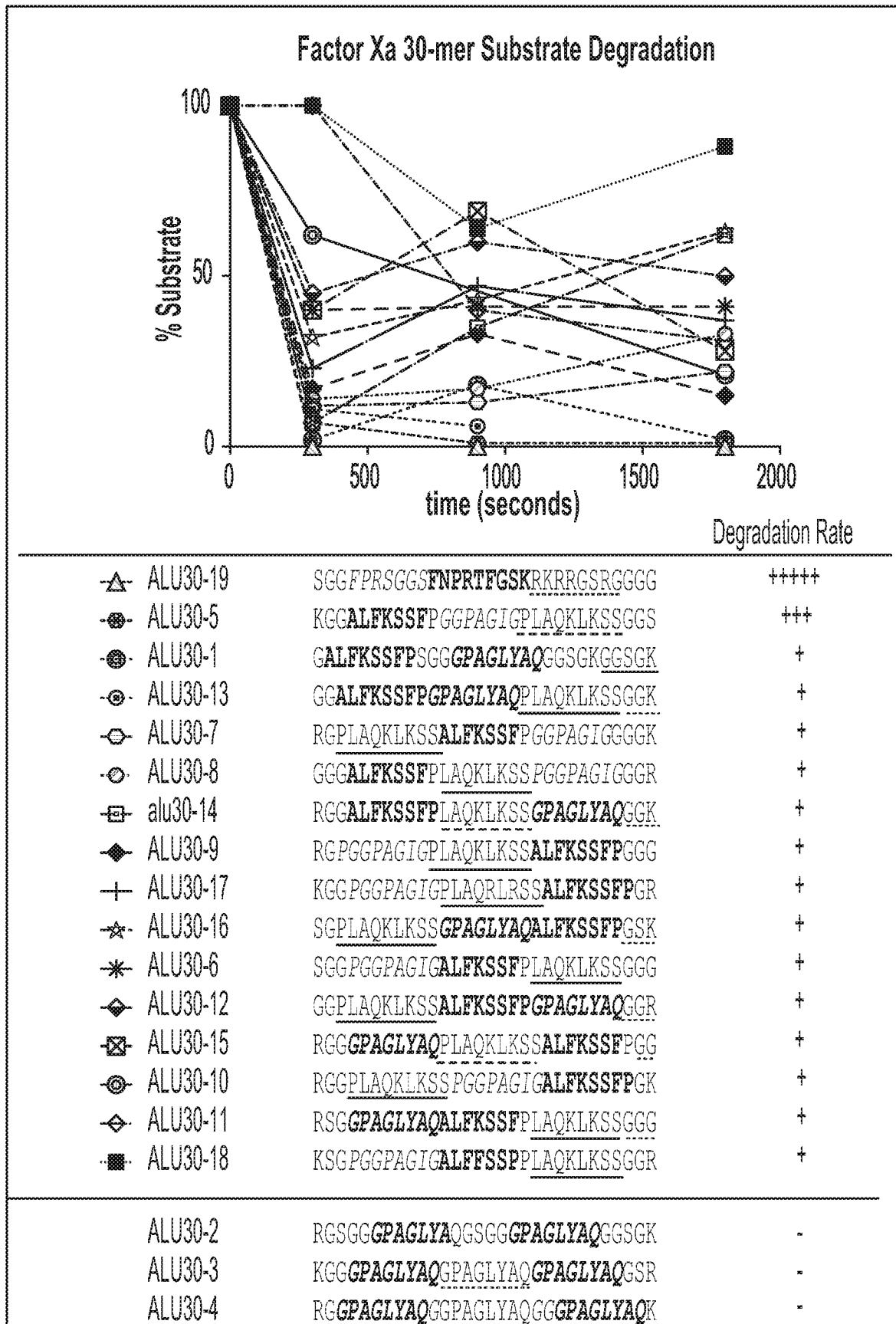


FIG. 53

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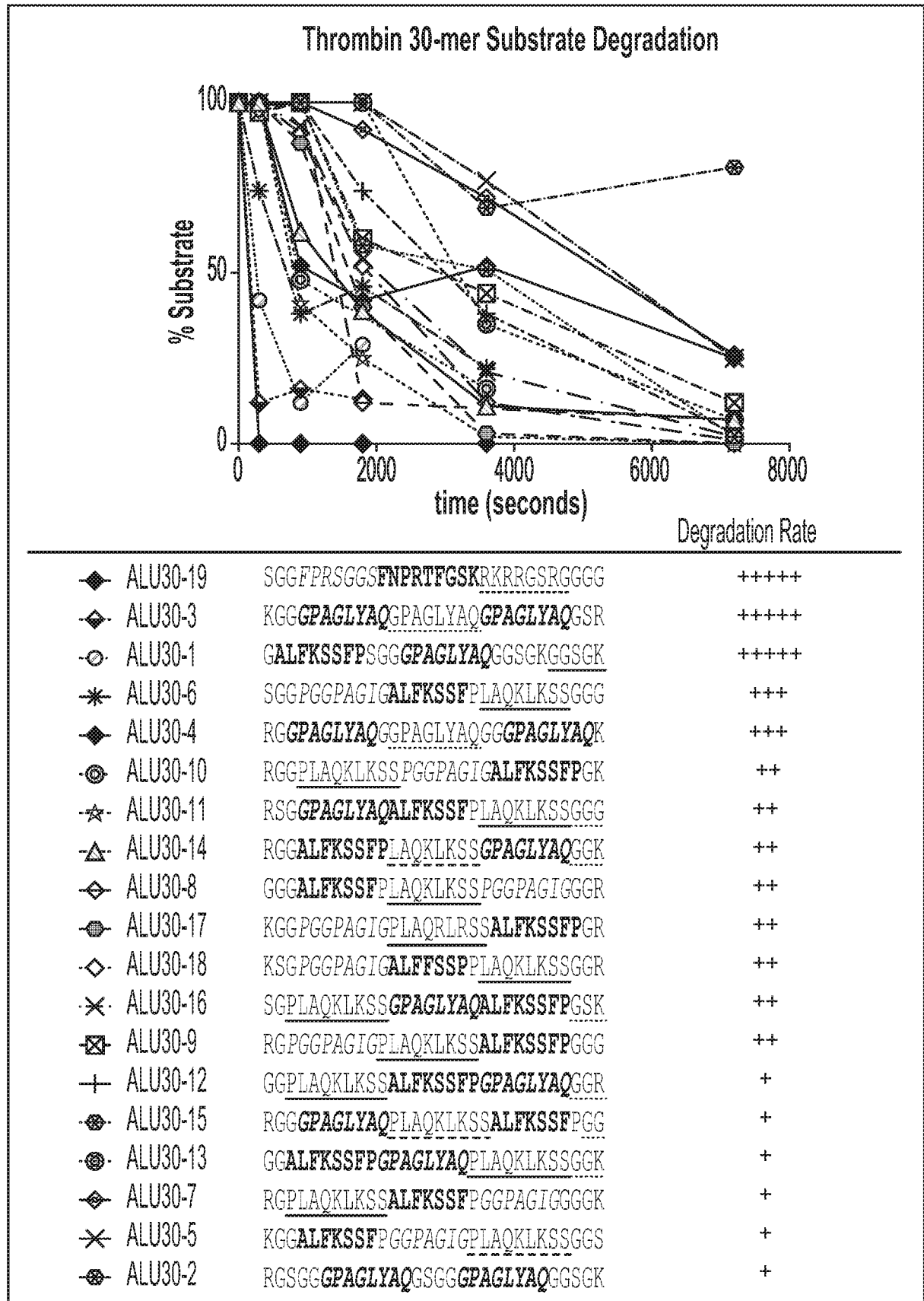


FIG. 54

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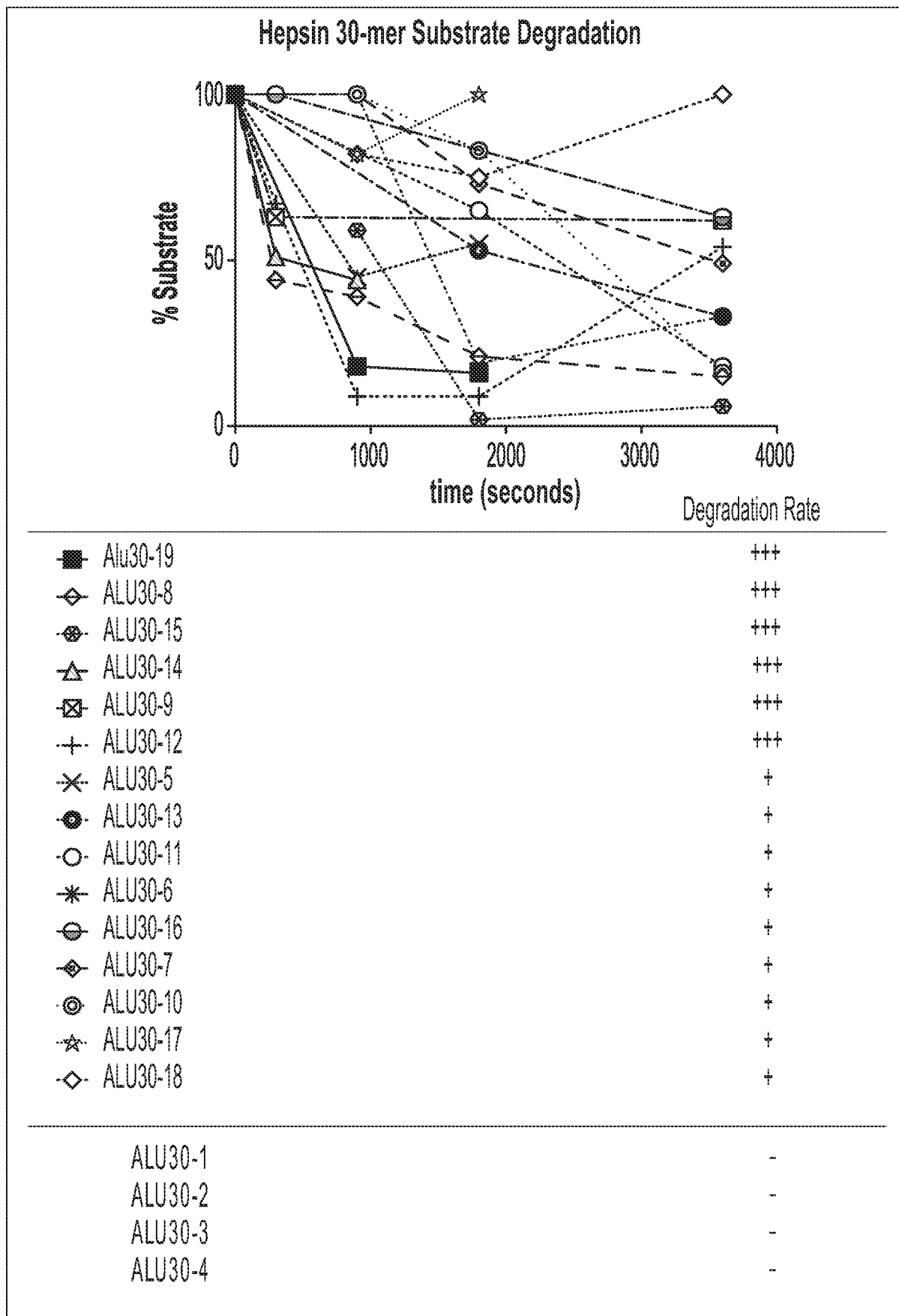


FIG. 55

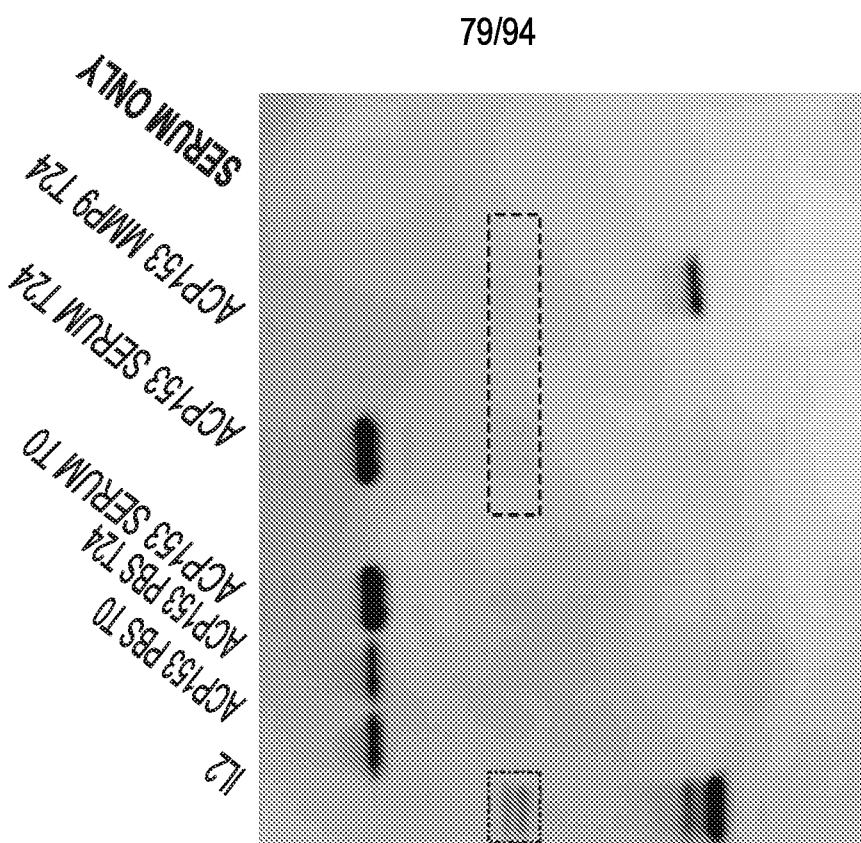


FIG. 56B

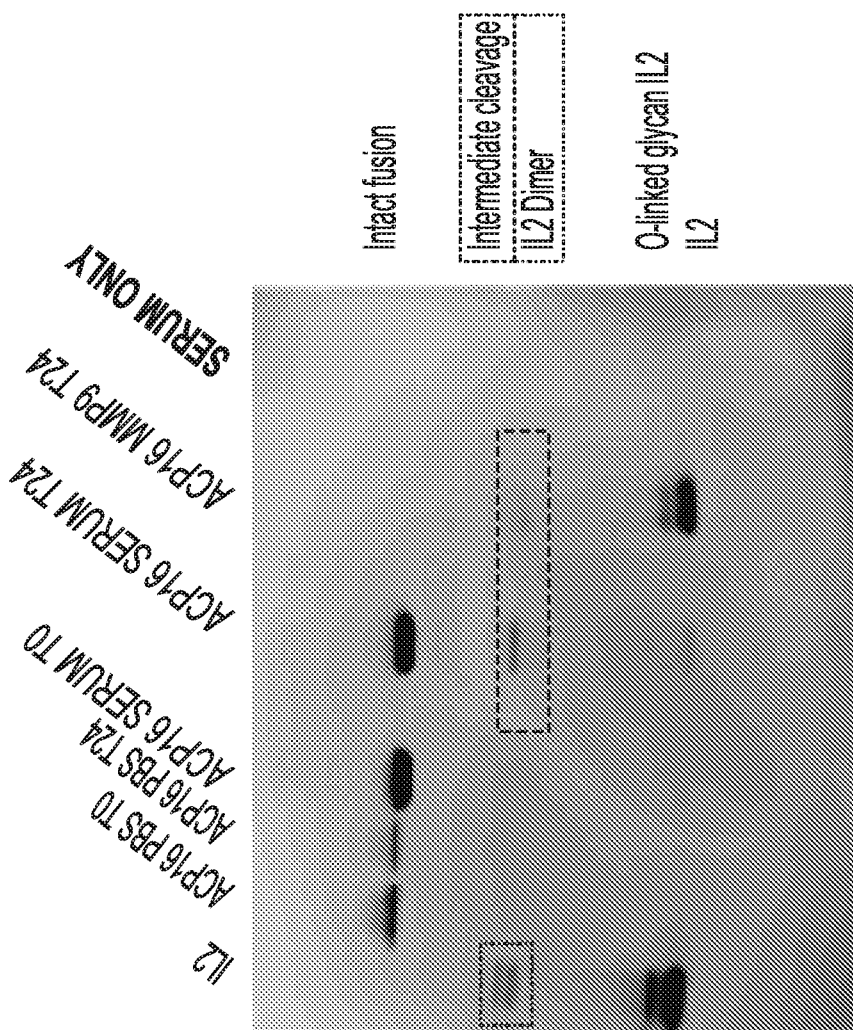


FIG. 56A

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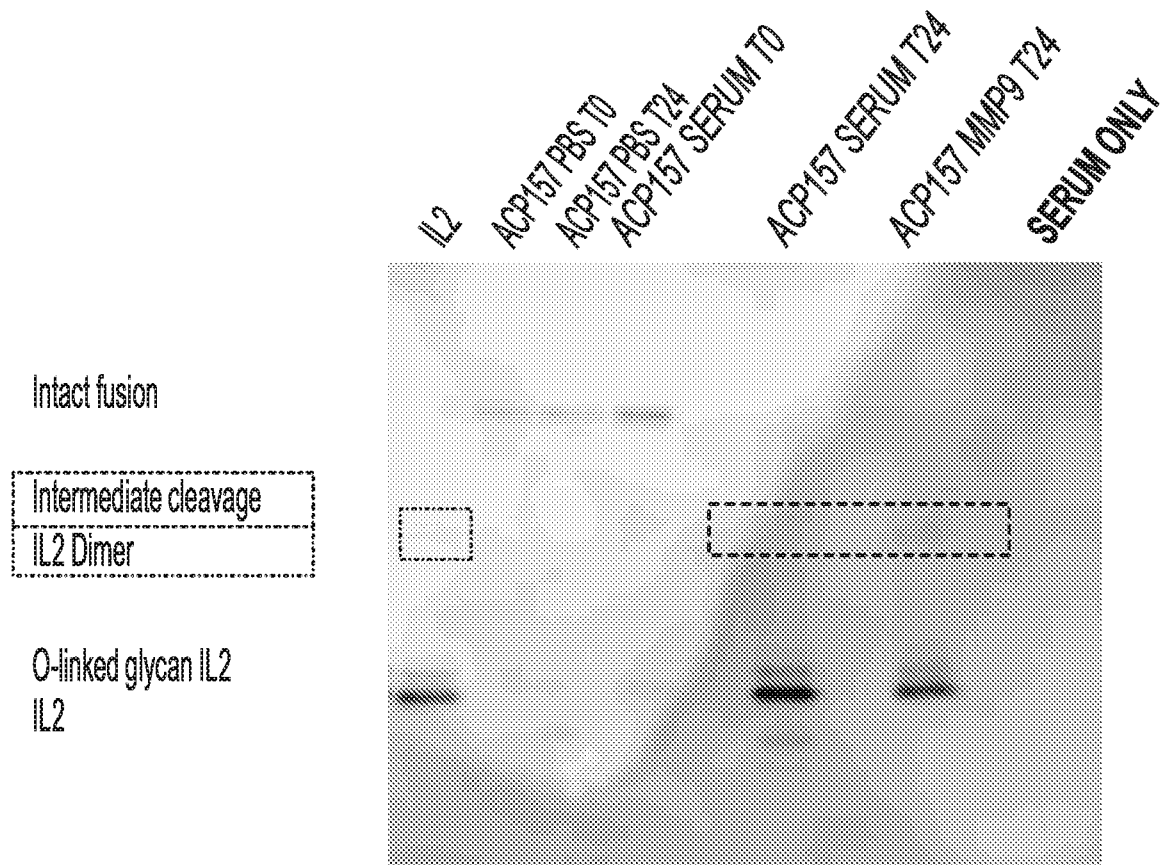
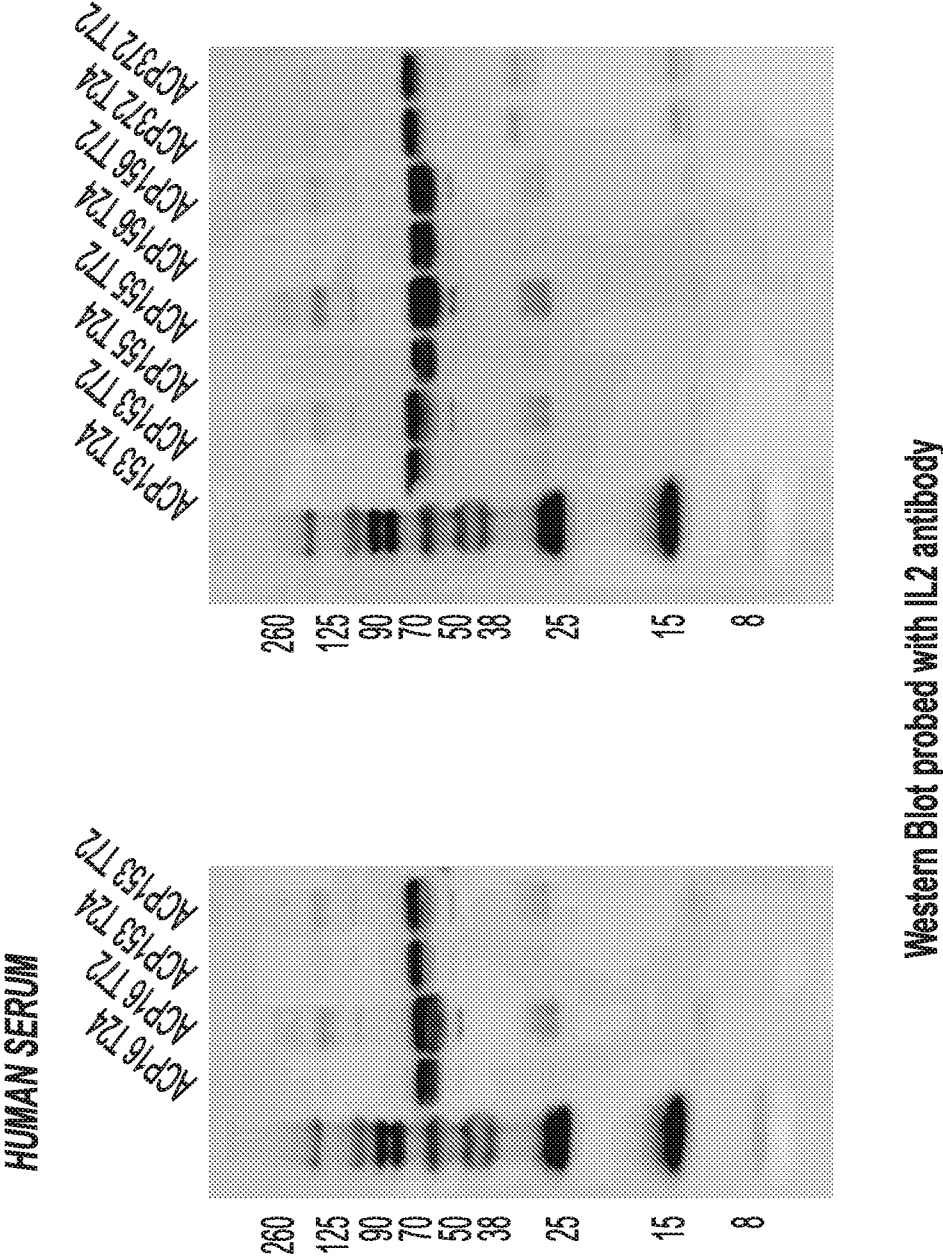
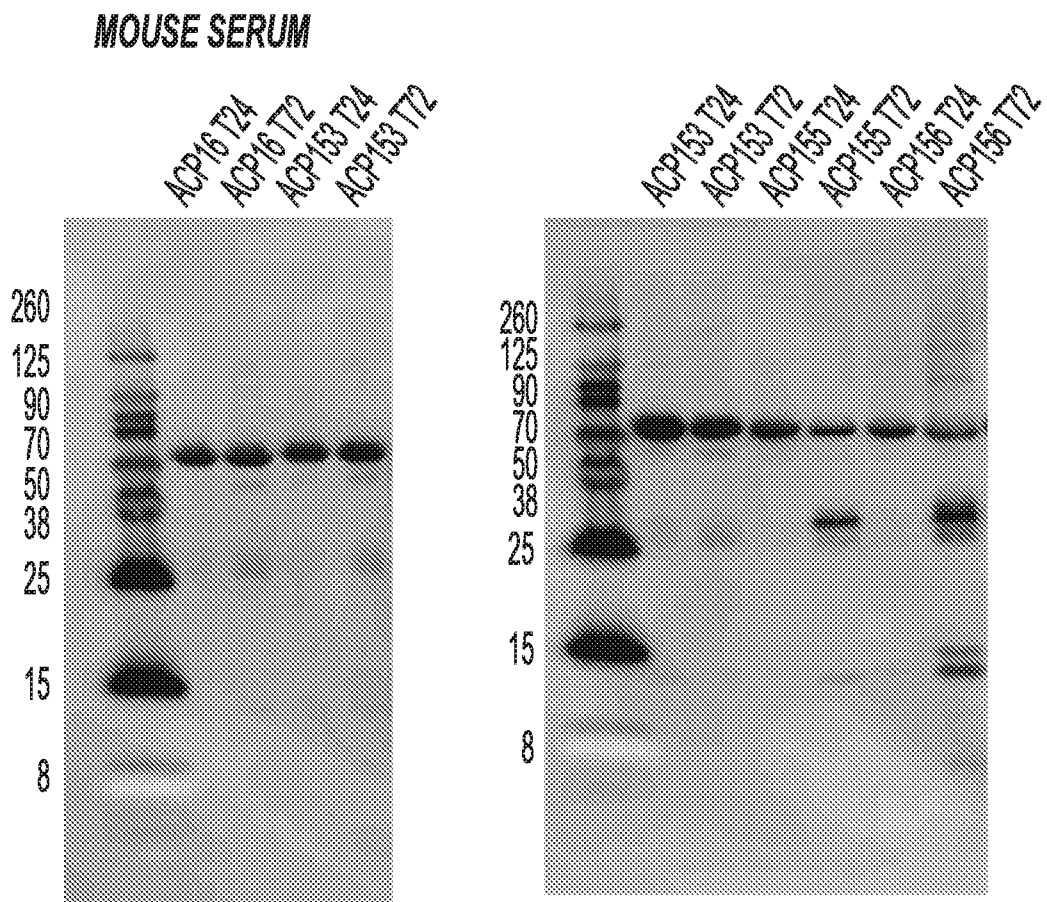


FIG. 56C



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Western Blot probed with IL2 antibody

FIG. 57B

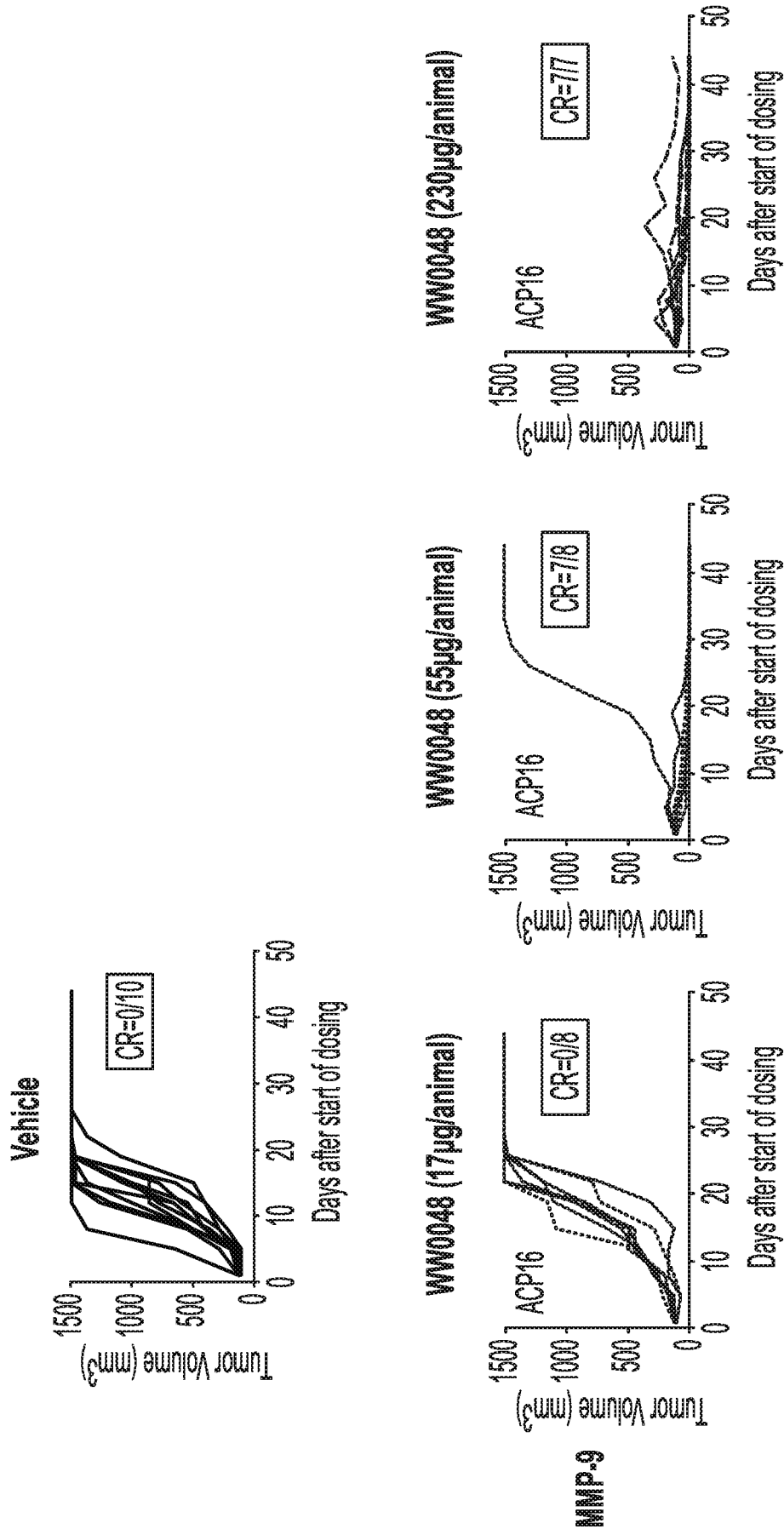


FIG. 58A

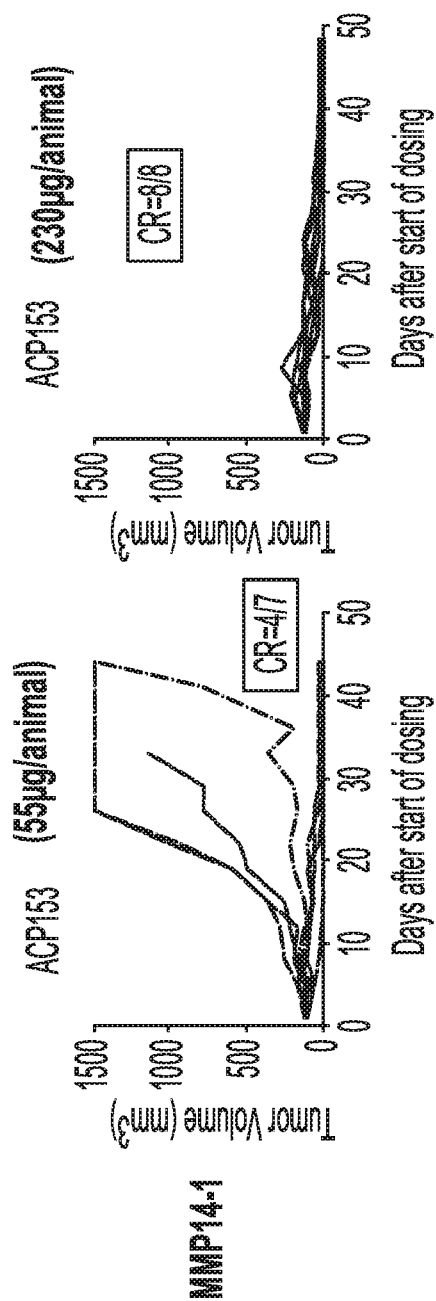


FIG. 58B

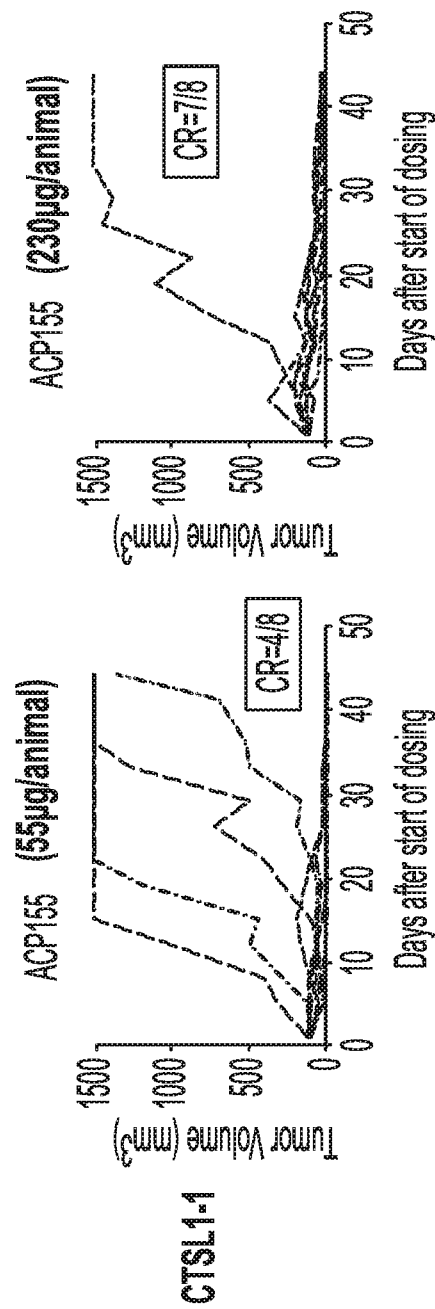


FIG. 58C

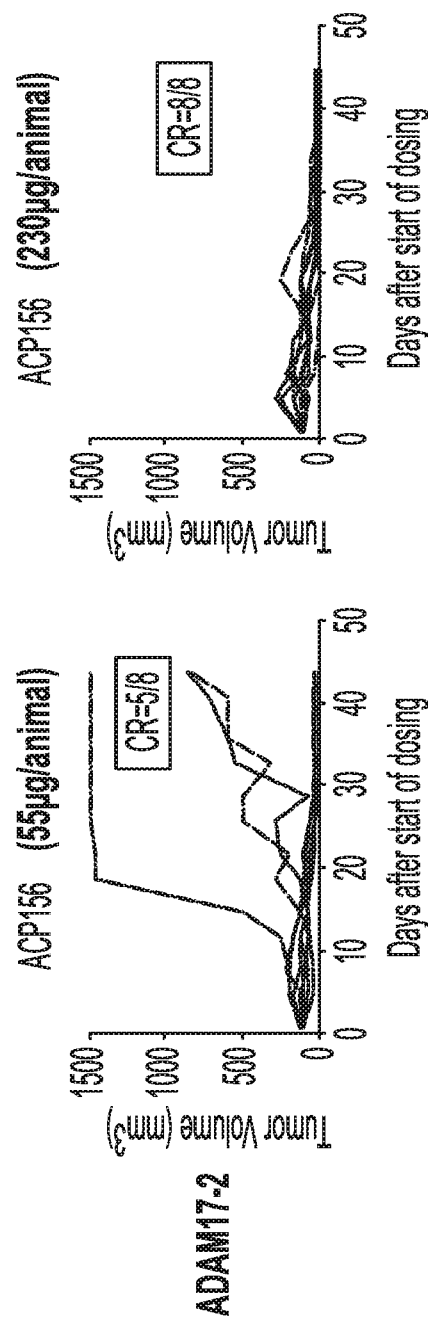


FIG. 58D

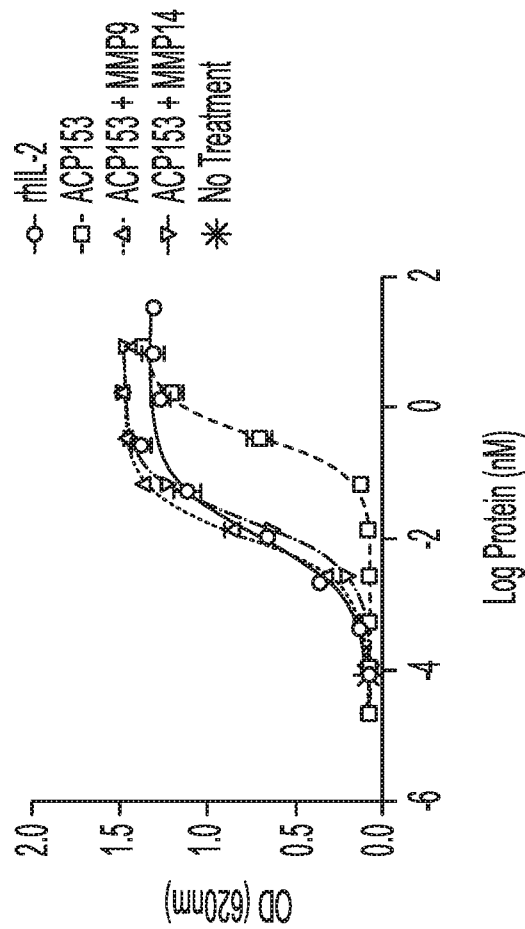
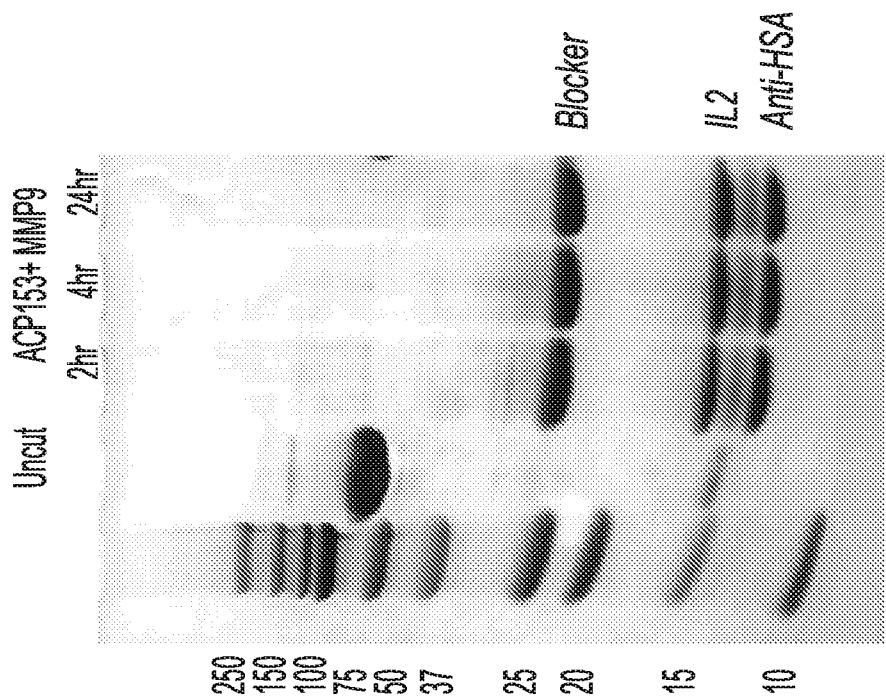


FIG. 59

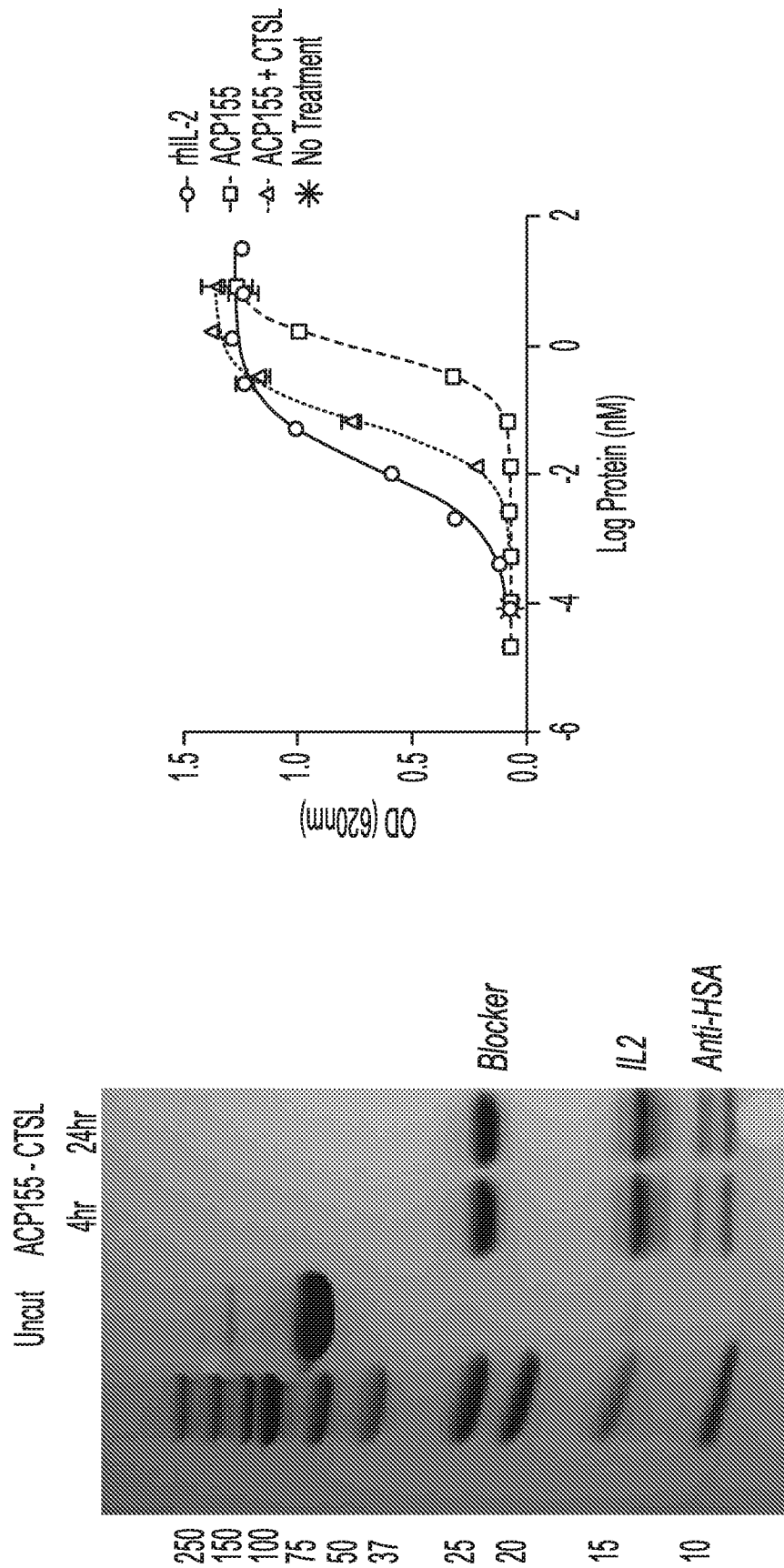


FIG. 60

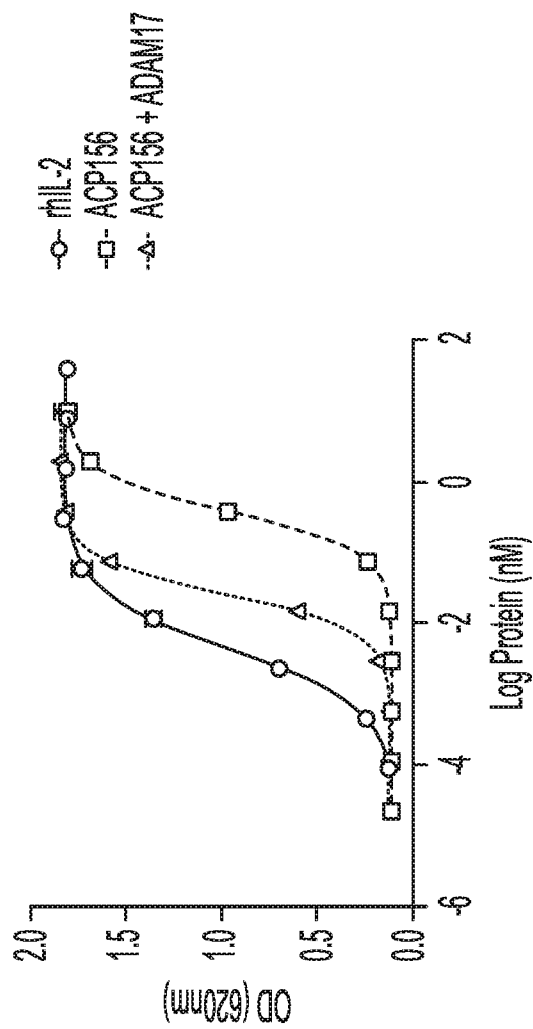
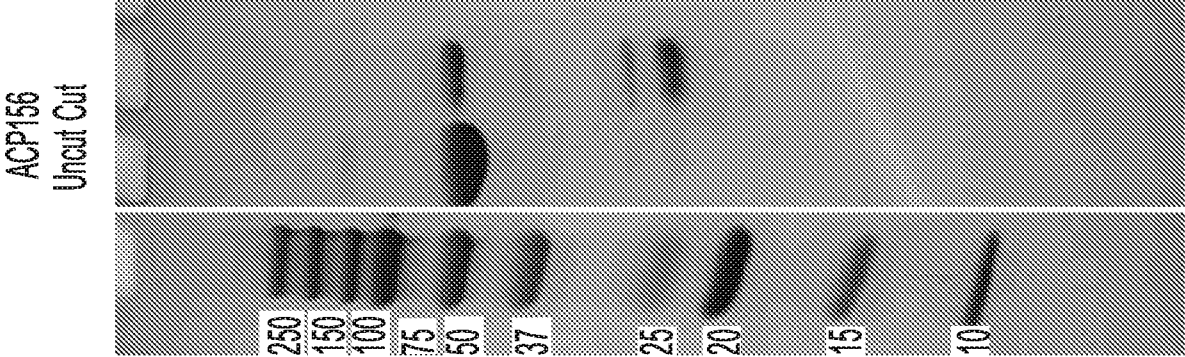


FIG. 61

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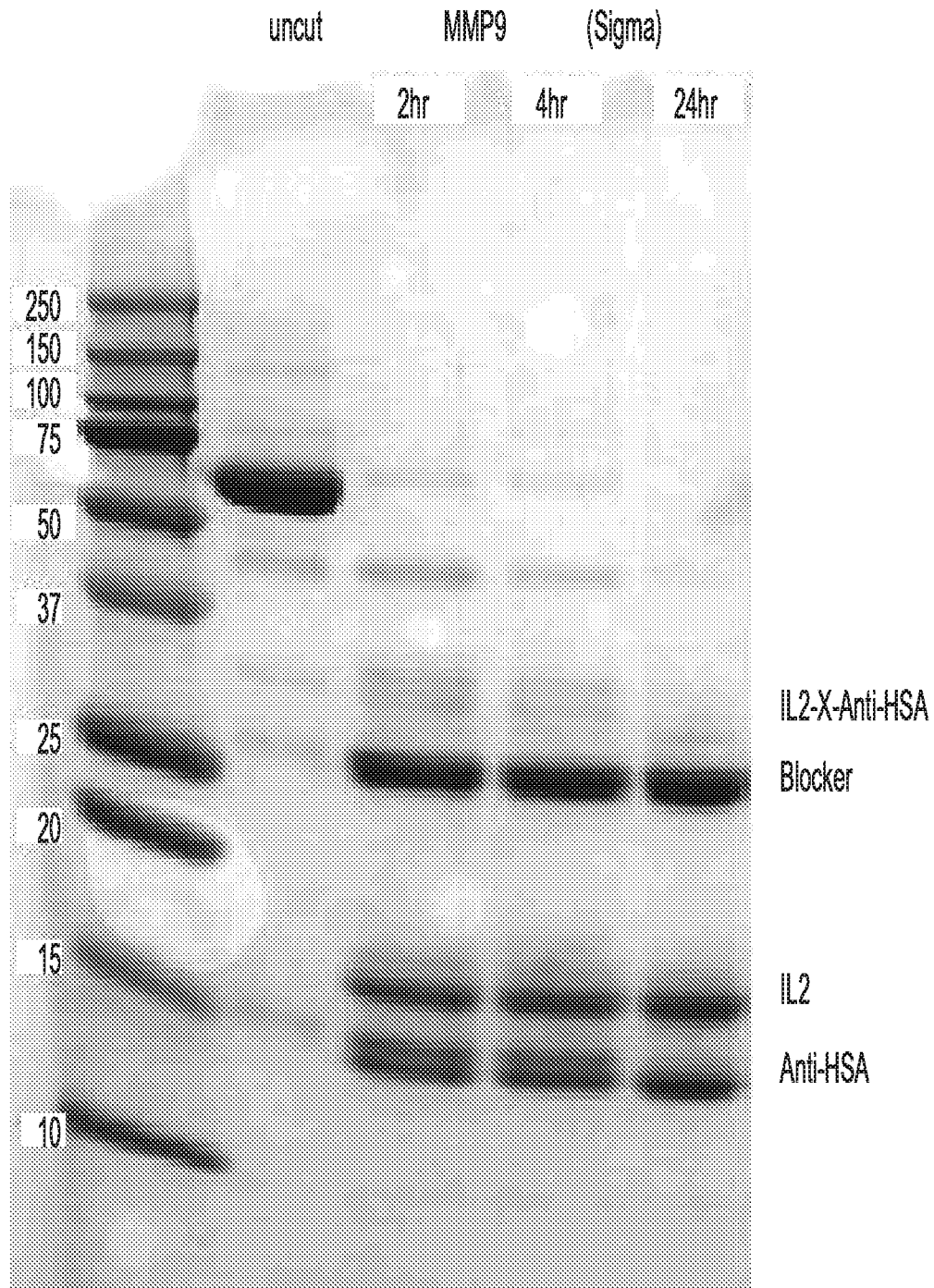


FIG. 62

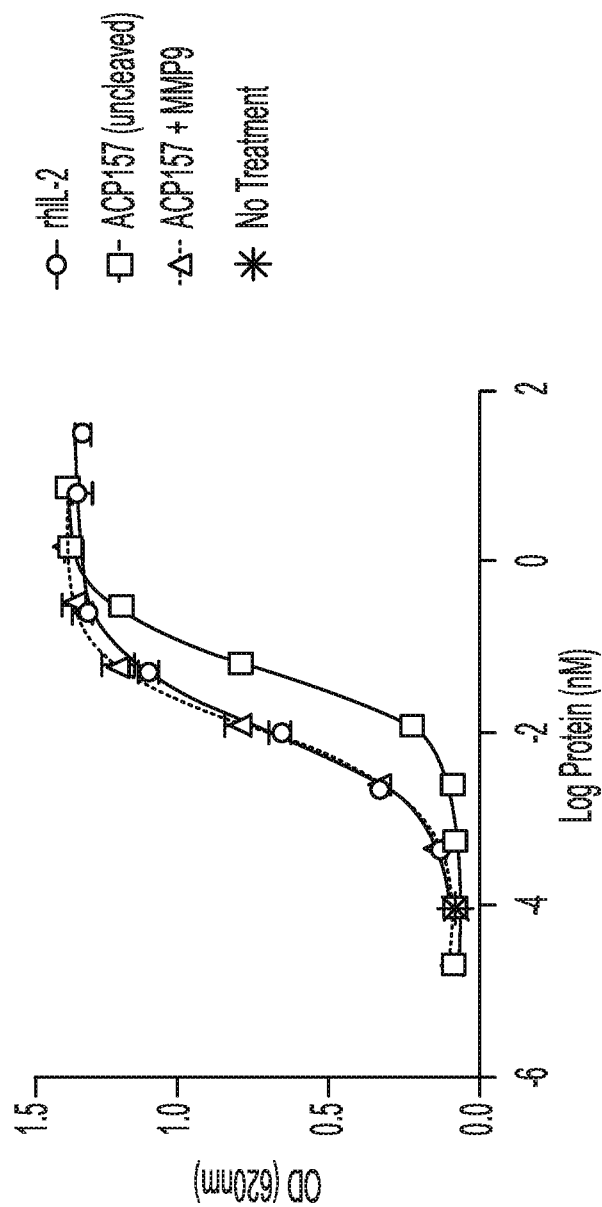


FIG. 62
Continued

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SUBSTRATE				
NAME	SEQUENCE	motif #1	motif #2	motif #3
ALU30-1	gALFKSSFPsgg GPALYAQ ggsgkggsgk	CTSL1_1	MMP14_1	-
ALU30-2	rgsggGPAGLYAQgsgg GPAGLYAQ ggsgk	MMP14_1	MMP14_1	-
ALU30-3	kggGPAGLYAQ GPAGLYAQ GPAGLYAQgsr	MMP14_1	MMP14_1	MMP14_1
ALU30-4	rgGPAGLYAQg GPAGLYAQ ggGPAGLYAQk	MMP14_1	MMP14_1	MMP14_1
ALU30-5	kggALFKSSFP PGGPAGIGPLAQKLKSS ggs	CTSL1_1	FAPa_1	ADAM17_2
ALU30-6	sggPGGPAGIG ALFKSSFPPLAQKLKSS ggg	FAPa_1	CTSL1_1	ADAM17_2
ALU30-7	rgPLAQKLKSS ALFKSSFP GGPAGIGgggk	ADAM17_2	CTSL1_1	FAPa_1
ALU30-8	gggALFKSSFP PLAQKLKSS PGGPAGIGggr	CTSL1_1	ADAM17_2	FAPa_1
ALU30-9	rgPGGPAGIG PLAQKLKSSALFKSSFP ggg	FAPa_1	ADAM17_2	CTSL1_1
ALU30-10	rggPLAQKLKSS PGGPAGIGALFKSSFP gk	ADAM17_2	FAPa_1	CTSL1_1
ALU30-11	rsGPGAGLYAQ ALFKSSFPPLAQKLKSS ggg	MMP14_1	CTSL1_1	ADAM17_2
ALU30-12	ggPLAQKLKSS ALFKSSFP GPAGLYAQggr	ADAM17_2	CTSL1_1	MMP14_1
ALU30-13	ggALFKSSEF GPAGLYAQPLAQKLKSS ggk	CTSL1_1	MMP14_1	ADAM17_2
ALU30-14	rggALFKSSFP PLAQKLKSS GPAGLYAQgk	CTSL1_1	ADAM17_2	MMP14_1
ALU30-15	rggGPAGLYAQ PLAQKLKSSALFKSSFP gg	MMP14_1	ADAM17_2	CTSL1_1
ALU30-16	sgPLAQKLKSS GPAGLYAQALFKSSFP gsk	ADAM17_2	MMP14_1	CTSL1_1
ALU30-17	kggPGGPAGIG PLAQRLRSSALFKSSFP gr	FAPa_1	ADAM17_1	CTSL1_1
ALU30-18	ksgPGGPAGIG ALFFSSPPLAQKLKSS ggr	FAPa_1	CTSL1_2	ADAM17_2
ALU30-19	sggFPRSGGS FNPRTFGSKRKRRGSRG ggg	thrombin	factor Xa	hepsin

FIG. 63

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CLEAVAGE ENZYME							
MMP9	MMP14	FAPa	CTSL1	ADAM17	Factor Xa	Thrombin	Hepsin
+++	++	+	+++++	-	+	+++++	-
+++	+	++++	-	-	-	+	-
+++++	++	++++	-	-	-	+++++	-
+++++	++	+++++	-	-	-	+++	-
-	-	++++	++	+	+++	+	+
++	-	++	+++++	++	+	+++	+
+	-	-	+++++	+++++	+	+	+
-	-	-	++	++++	+	++	+++
-	-	++	++	+++	+	++	+++
+++	-	++	++	++++	+	++	+
+	++++	-	+++	+++	+	++	+
+	++	+++	++	+++	+	+	+++
++++	++	++	++	++++	+	+	+
+	+++++	-	+++	+++	+	++	+++
++++	++++	+++	+	++	+	+	+++
+++	+++++	++++	++	++++	+	++	+
-	-	++++	+++++	+++	+	++	+
+++	-	++++	++++	+++	+	++	+
-	-	-	-	-	+++++	+++++	+++

FIG. 63
Continued

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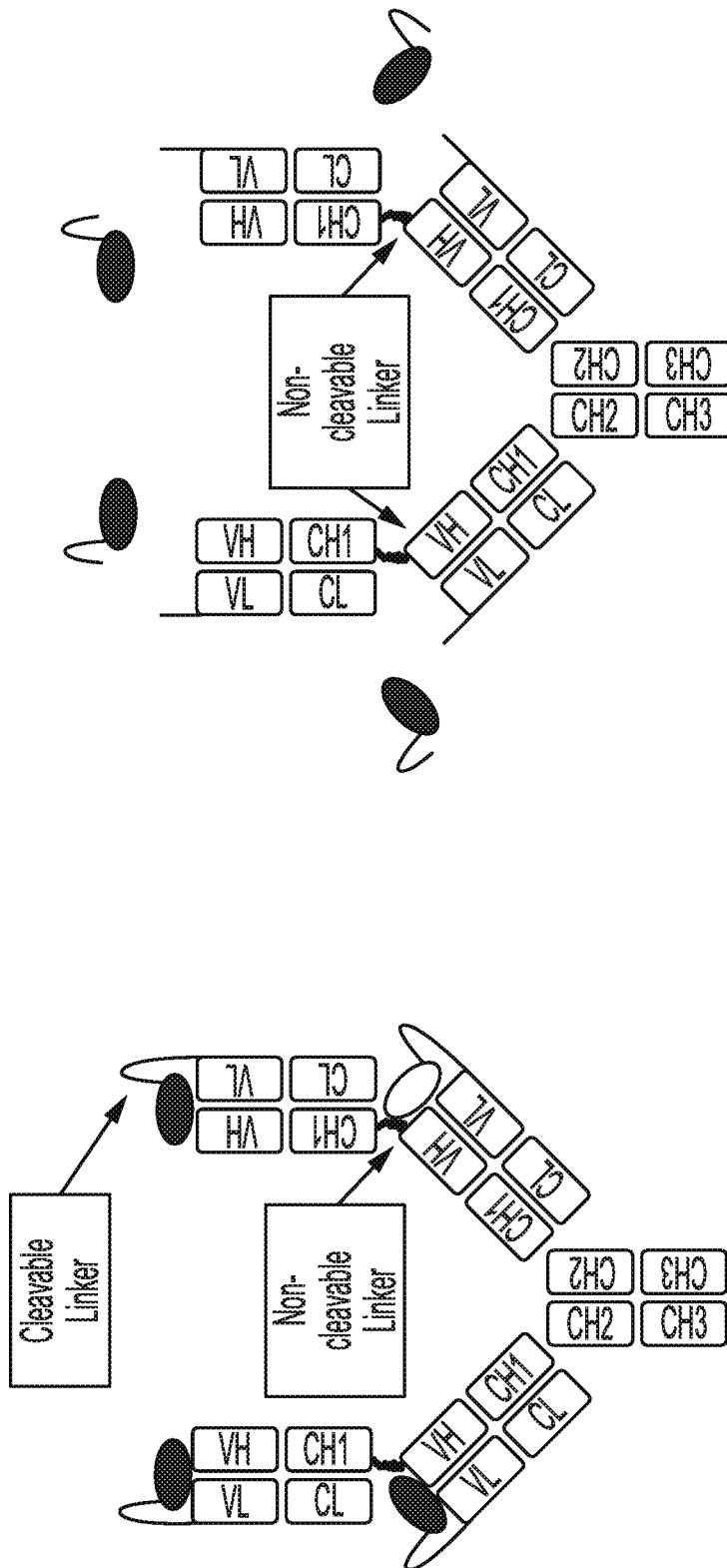


FIG. 64

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Human 4-1BB HT-1080

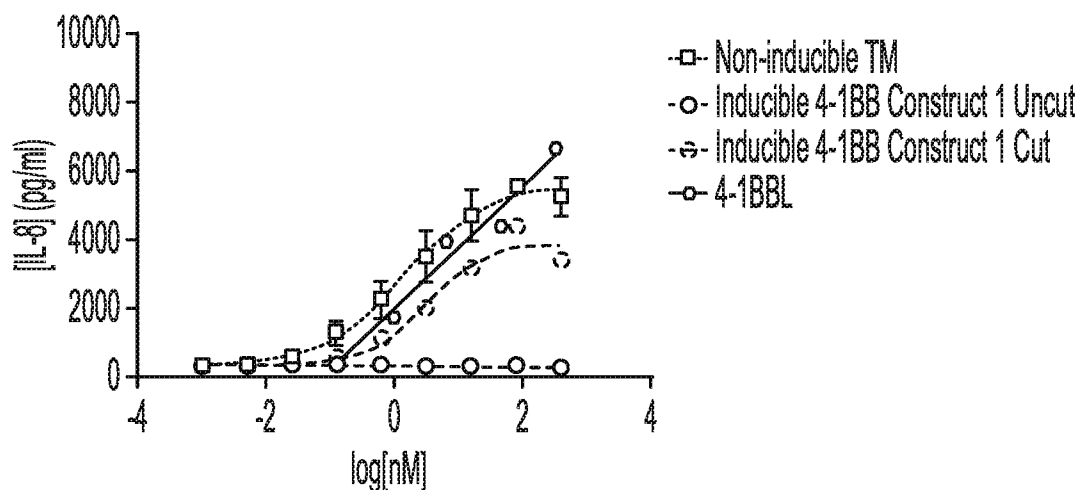


FIG. 65A

Human 4-1BB HT-1080

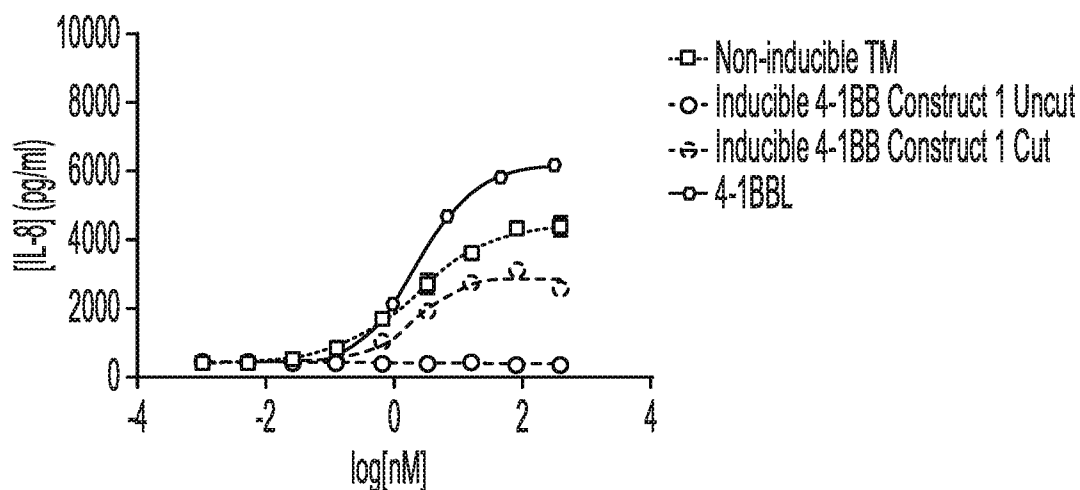


FIG. 65B