

FIG. 1A

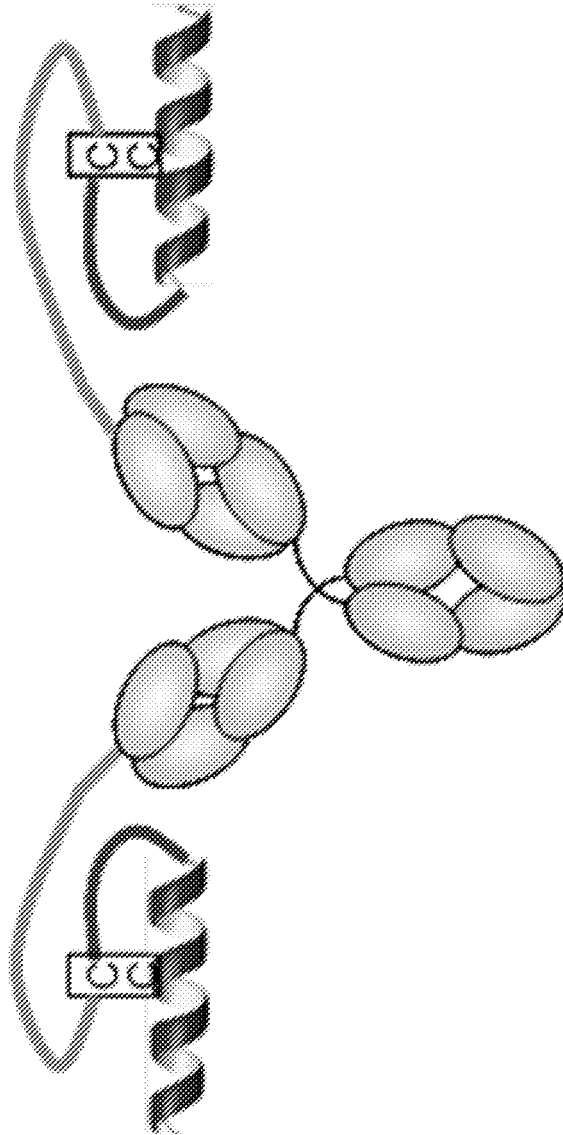


FIG. 1B-D

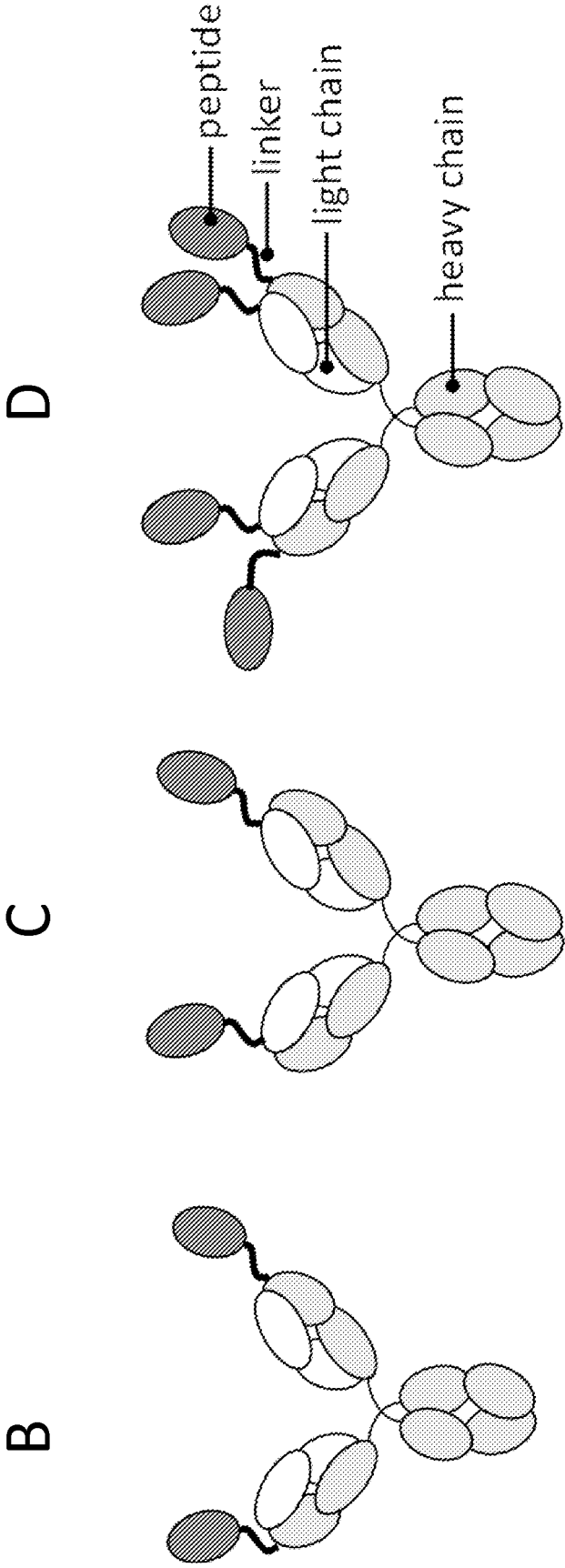
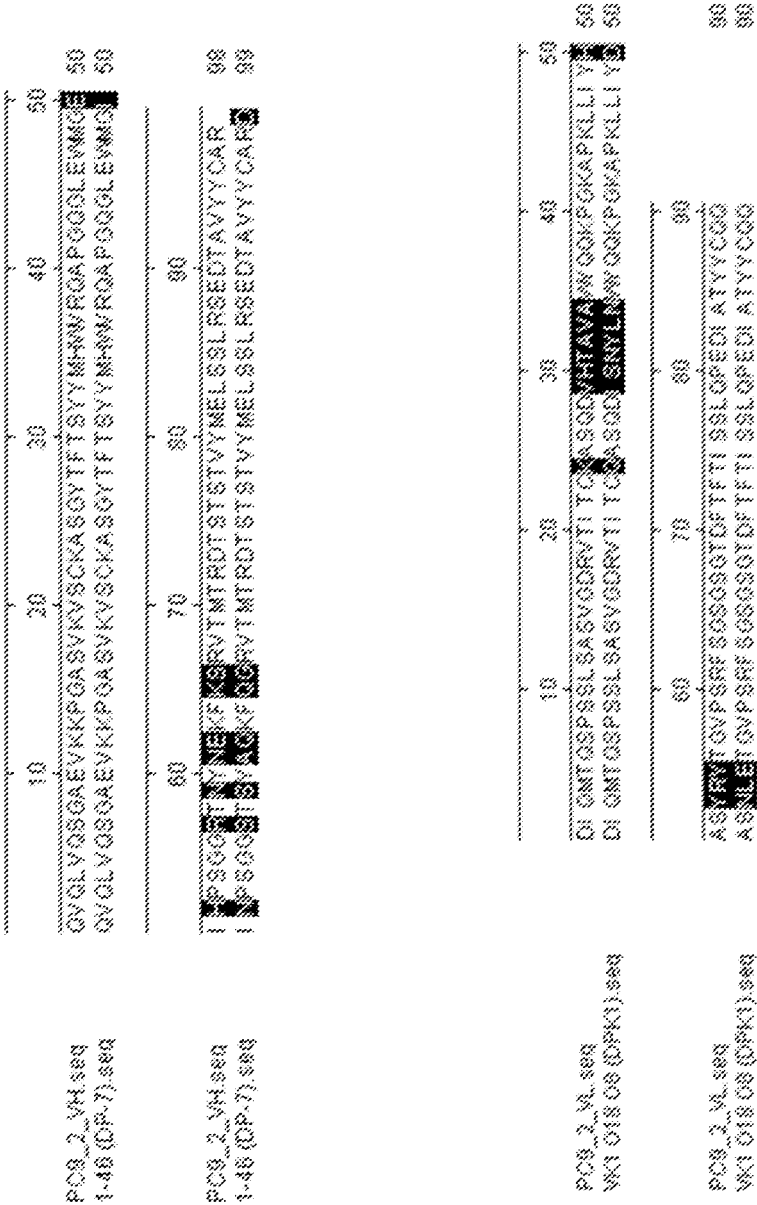


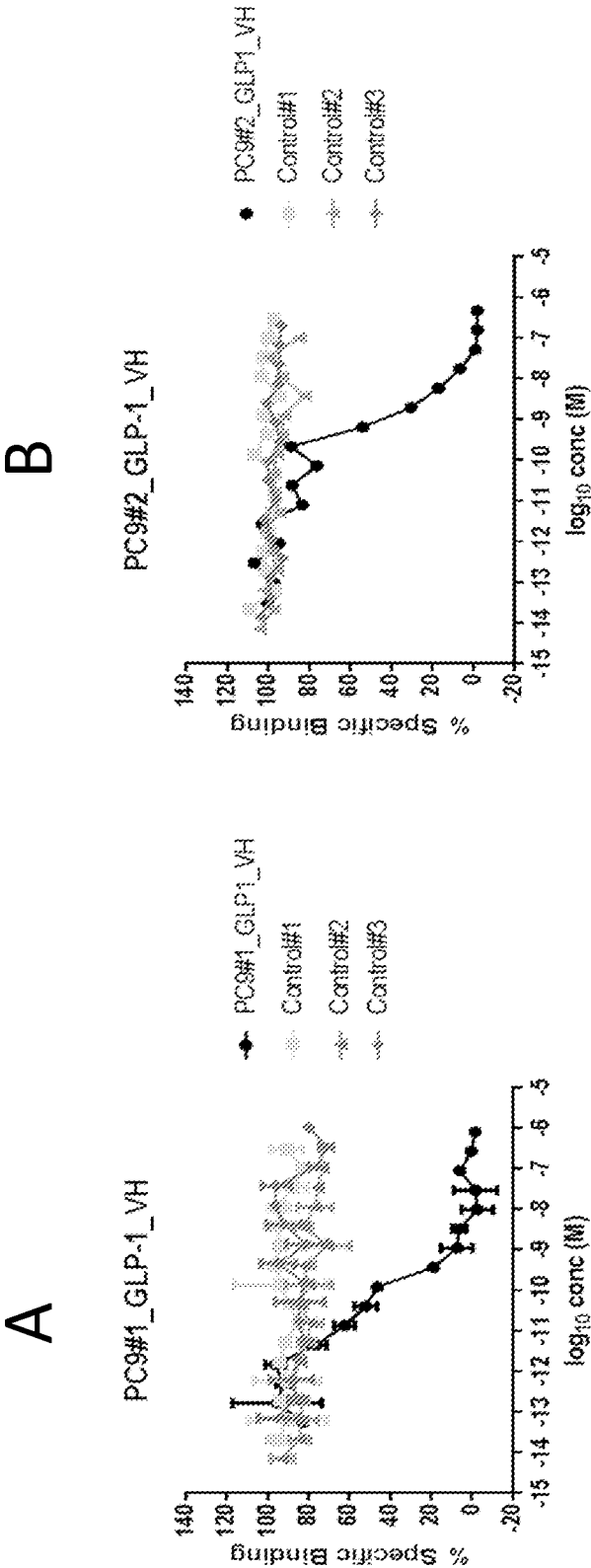
FIG. 1E-F



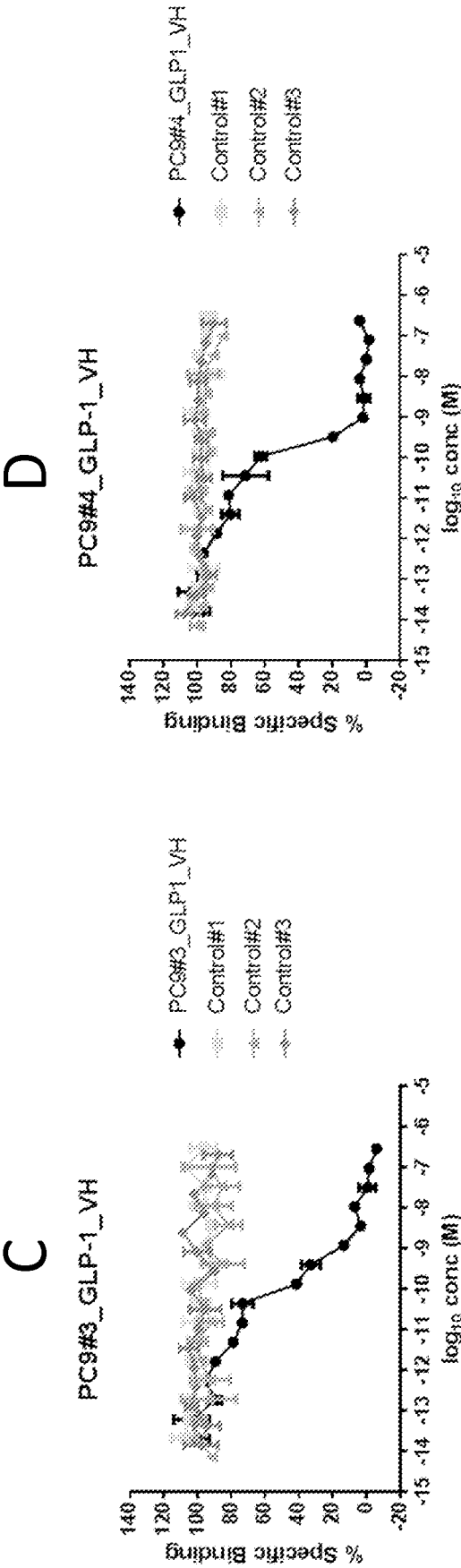
E

F

FIGS. 2A-B

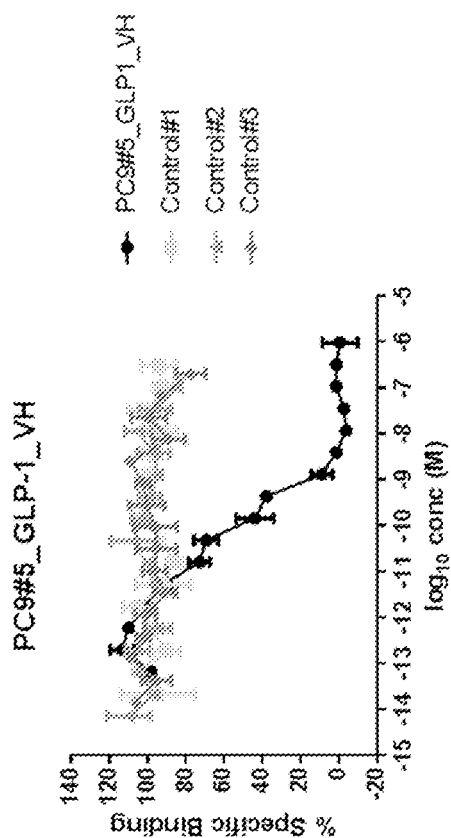


FIGS. 2C-D



FIGS. 2E-F

E



F

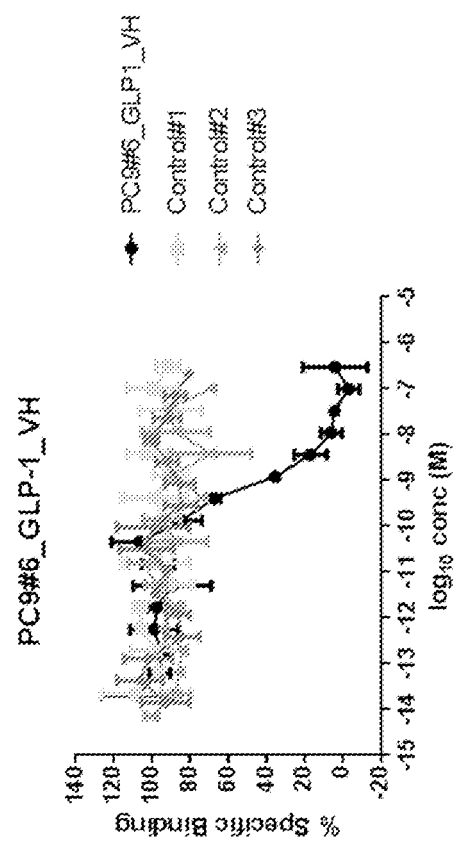
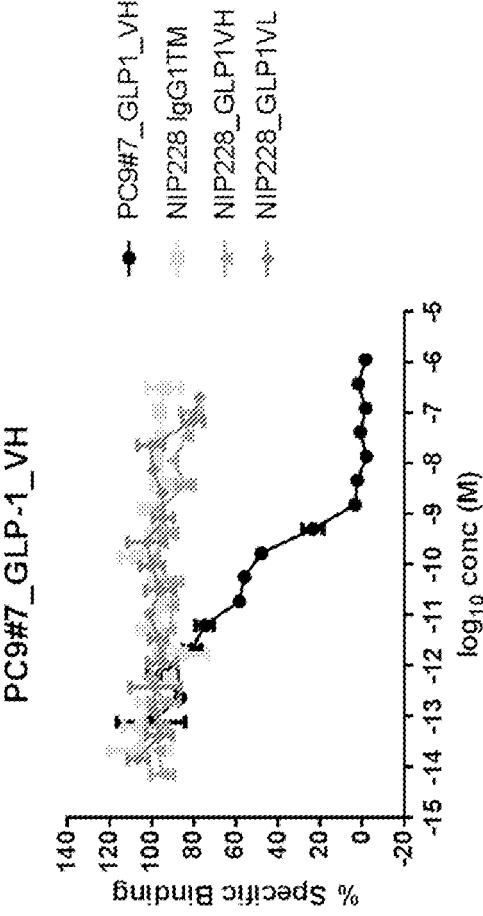
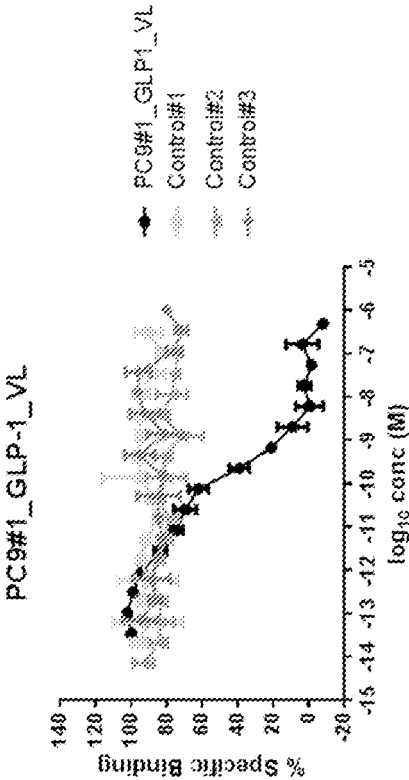


FIG. 2G

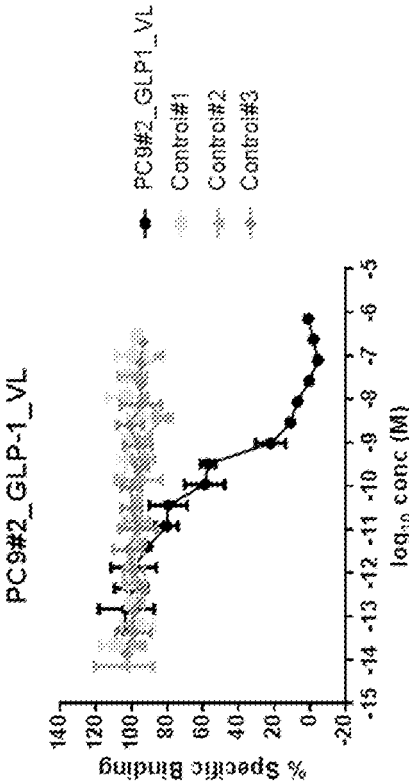


FIGS. 3A-B

A

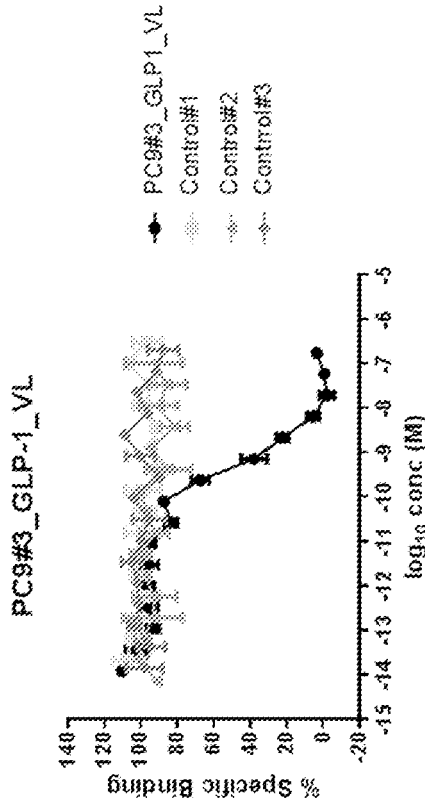


B

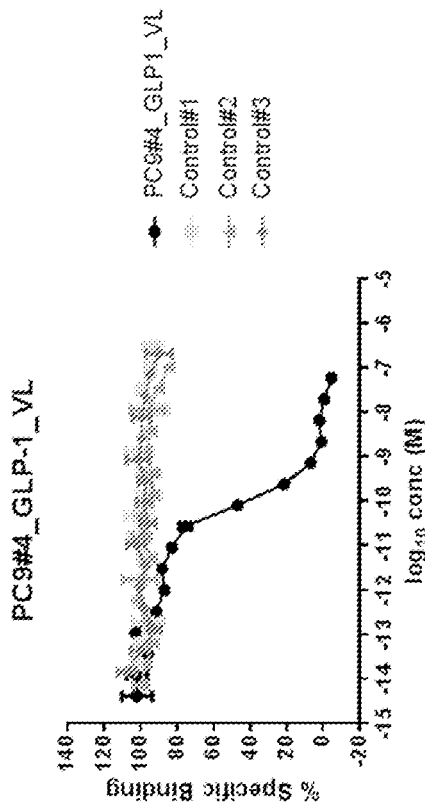


FIGS. 3C-D

C

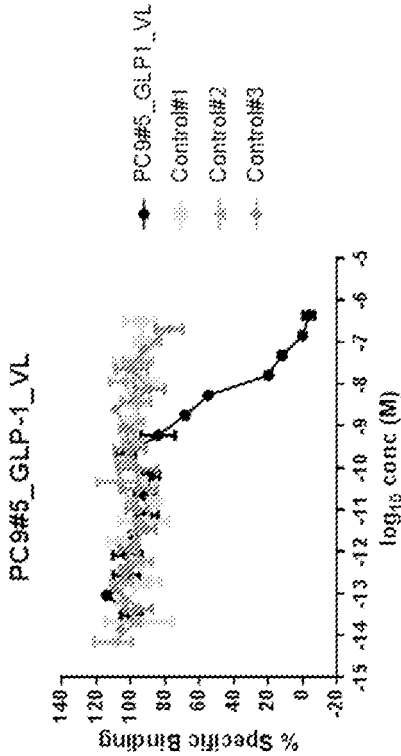


D



FIGS. 3E-F

E



F

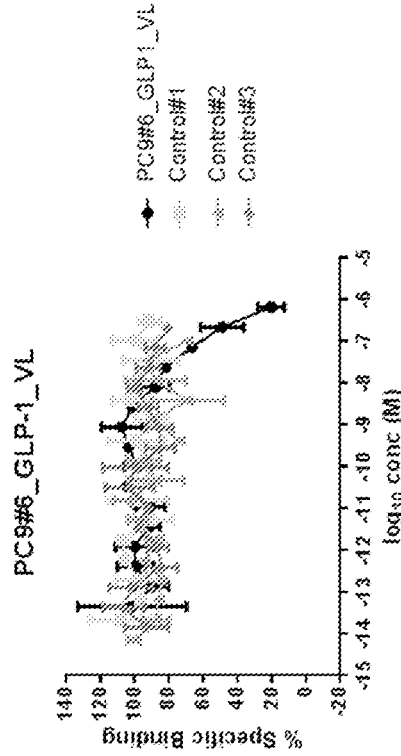
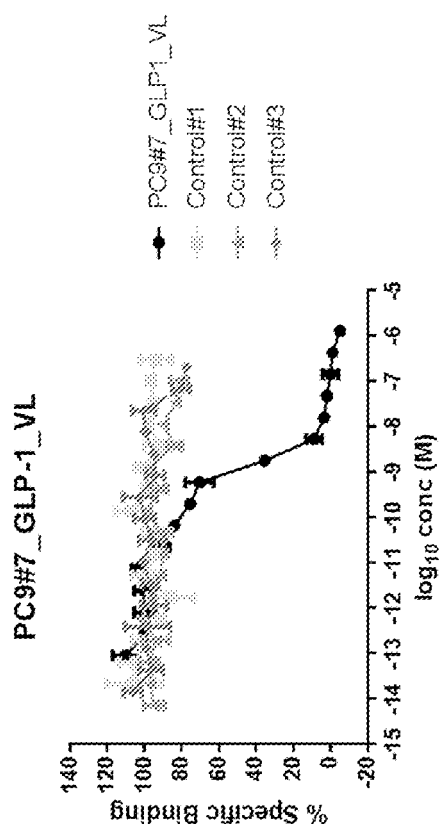


FIG. 3G



FIGS. 4A-B

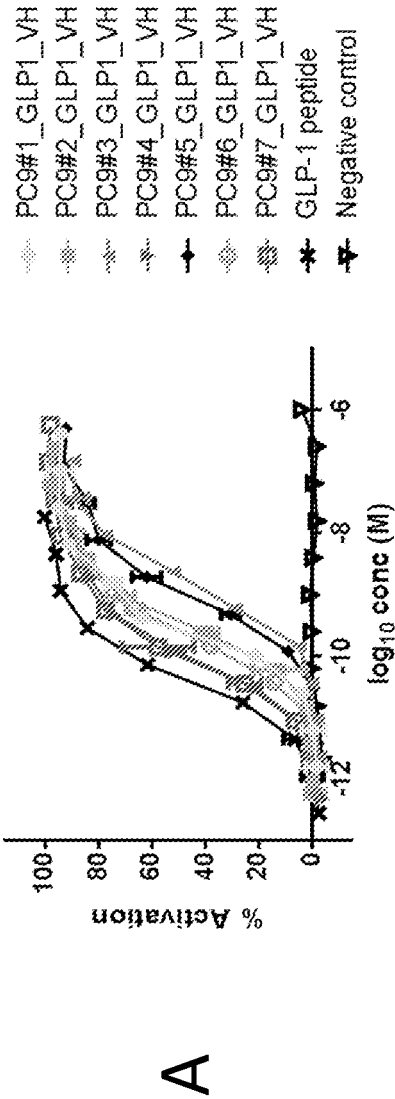
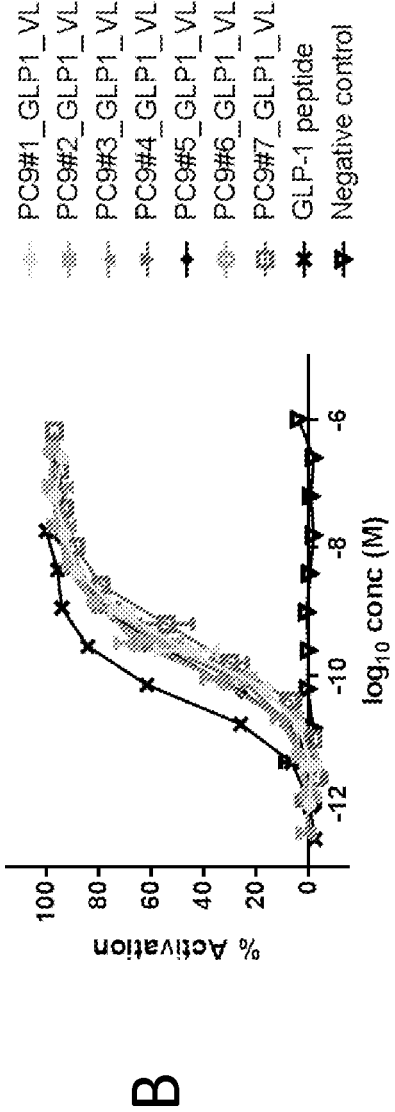


FIG. 5A

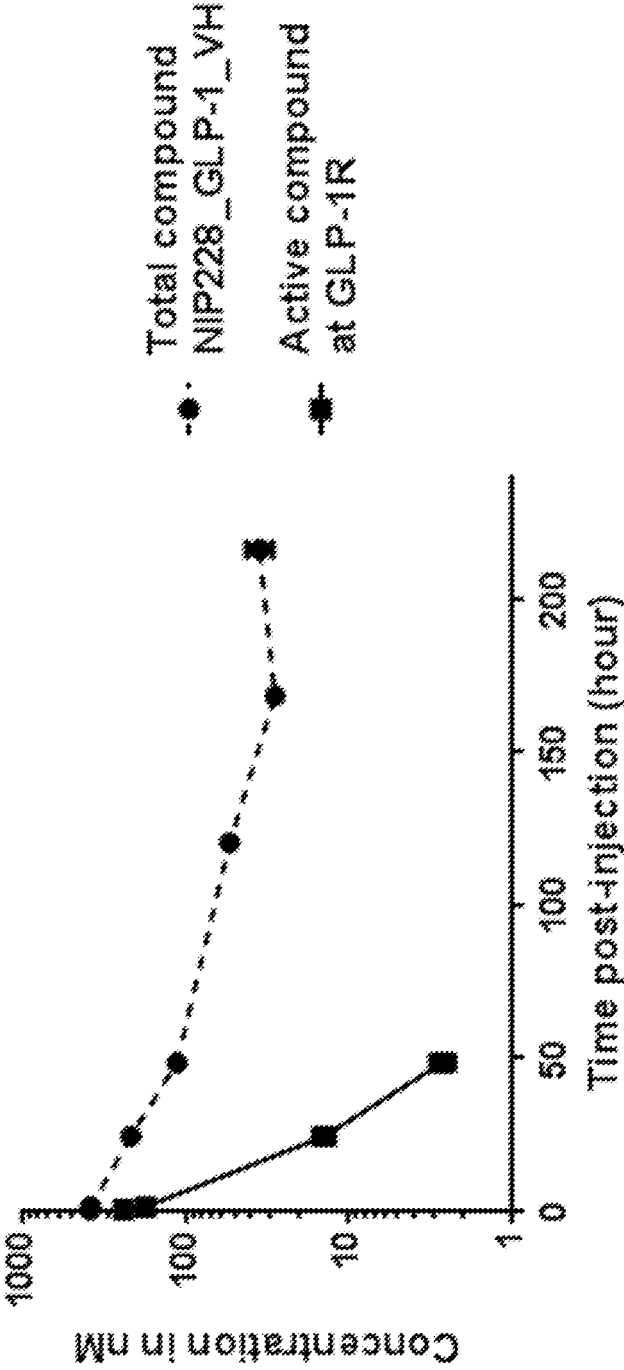


FIG. 5B

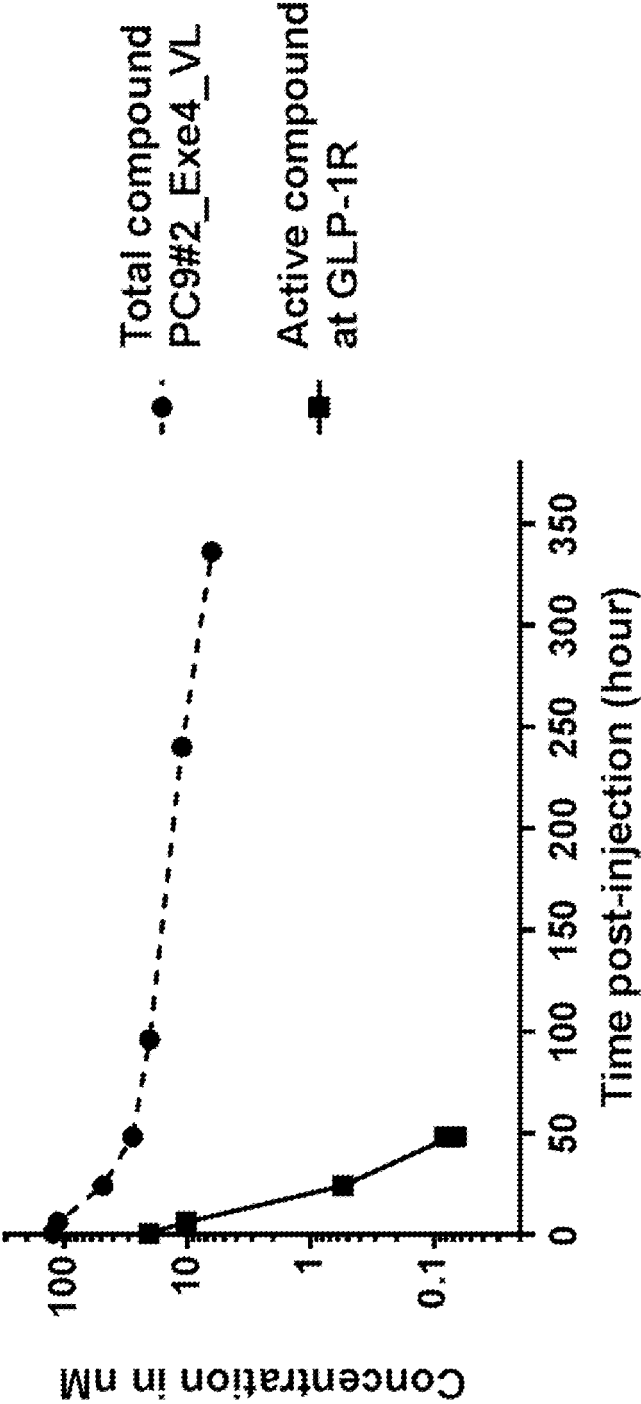


FIG. 5C

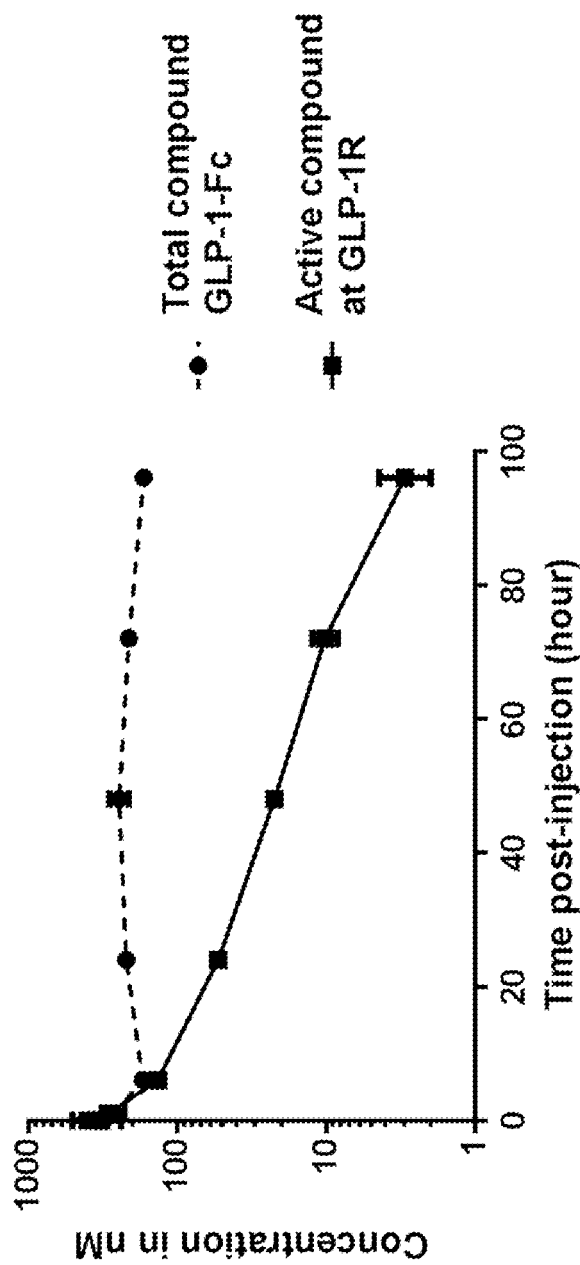


FIG. 5D

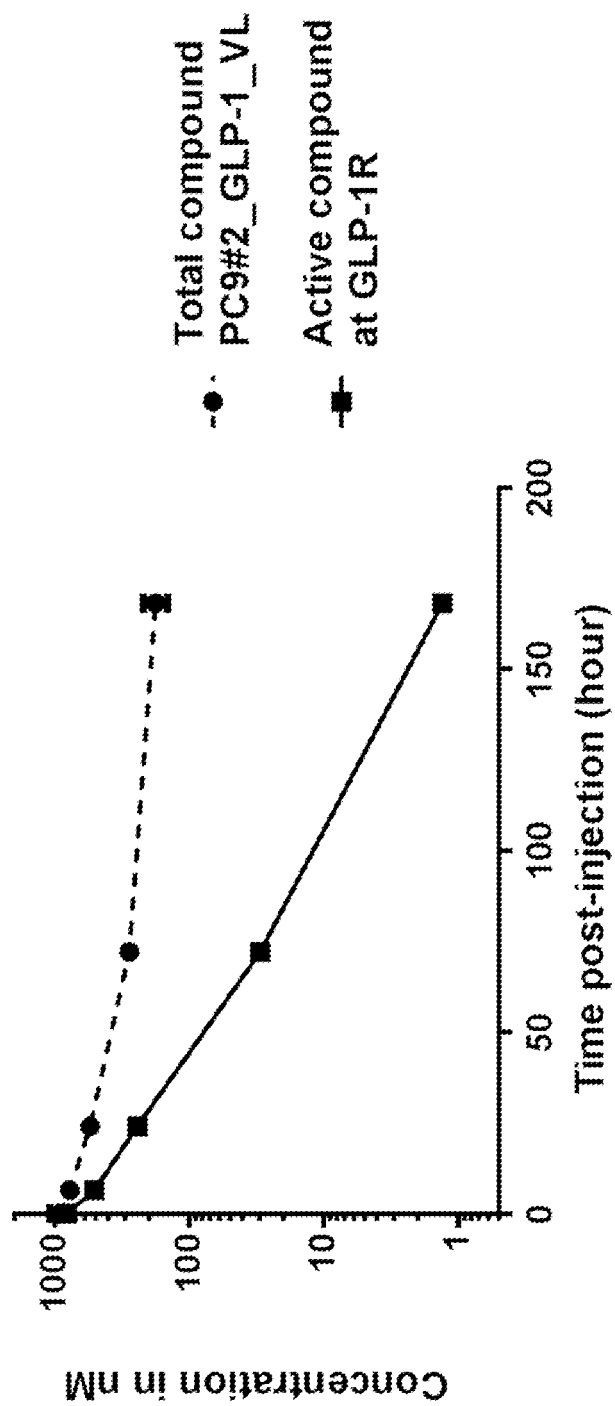
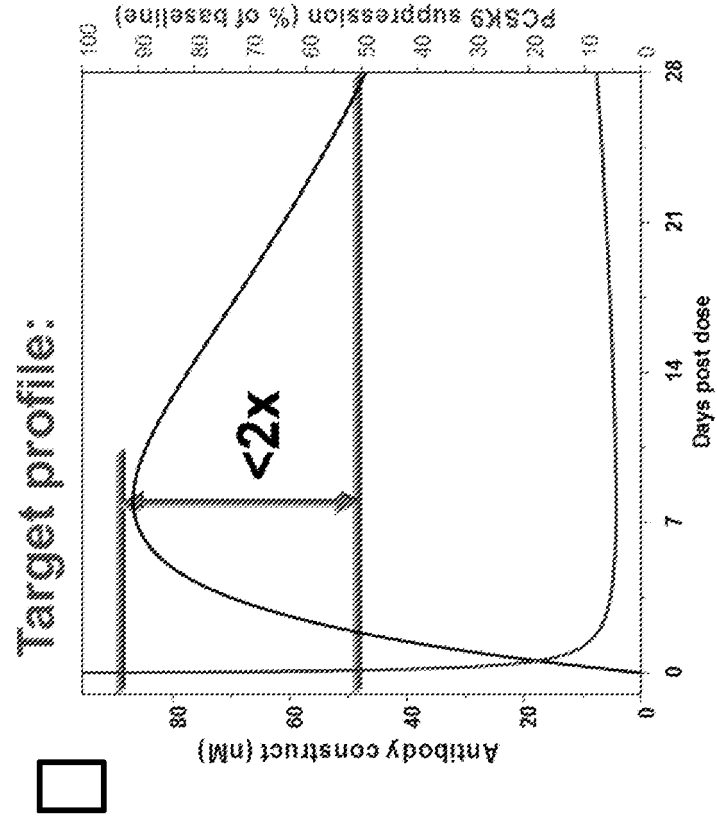


FIG. 6



FIGS. 7A-B

	Peptide sequence	Linker sequence	SEQ ID NO.
GLP-1 analogue	HGEGTFTSDVSSYLEEQAAKEFIAWLVKGG	GGGGSGGGSGGGGSA	
NGS#1	HGEGTFTSDVSSYLEEQNASEFIAWLVKGG	GGGGSGGGSGGGGSA	
NGS#2	HGEGTFTSDVSSYLEEQAAKEFIAWLVNGS	GGGGSGGGSGGGGSA	
NGS#3	HGEGTFTSDVSSYLEEQAAKEFIAWLVKNG	SGGGSGGGSGGGGSA	
NGS#4	HGEGTFTSDVSSYLEEQAAKEFIAWLVKGN	GGGGSGGGSGGGGSA	
NGS#5	HGEGTFTSDVSSYLEEQAAKEFIAWLVKGG	NGSGSGGGSGGGGSA	
NGS#6	HGEGTFTSDVSSYLEEQAAKEFIAWLVKGG	GNSGSGGGSGGGGSA	
NGS#7	HGEGTFTSDVSSYLEEQAAKEFIANLSKGG	GGGGSGGGSGGGGSA	
NGS#8	HGEGTFTSDVSSYLEEQAAKEFIANLTKGG	GGGGSGGGSGGGGSA	

A

Peptide name	1	11	21	31	41	51	SEQ ID NO.
Exendin-4	H G E G T F T S D L S	K Q M E E E A V R L F I E W L K N G G P S S G A P P P S					12
DSB#1	H G E G T F T S D L S	K Q M E E E A V R L F I E W L K N G G P S S G A P P P S S G G G G G G G G G G C					30
DSB#2	H G E C T F T S D L S	K Q M E E E A V R L F I E W L K N G G P S S G A P P P S S G G G G G G G G G G C					31
DSB#3	H G E G T F T S D L S	K Q M E E E C V R L F I E W L K N G G P S S G A P P P G C					32

B

FIG. 8A-B

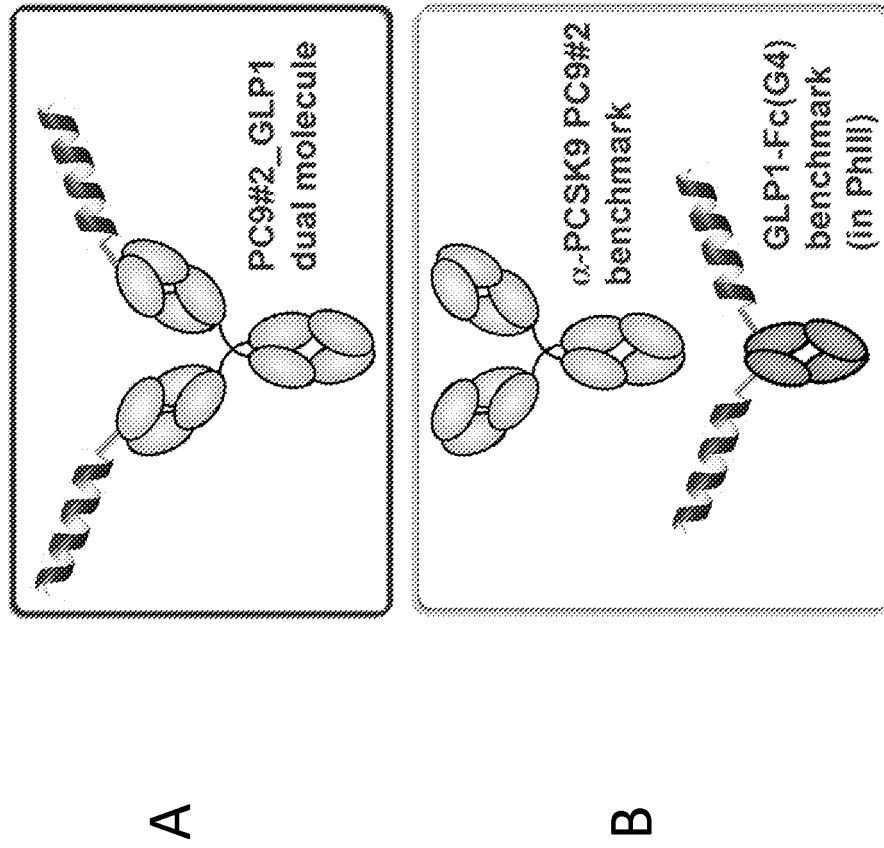


FIG. 9

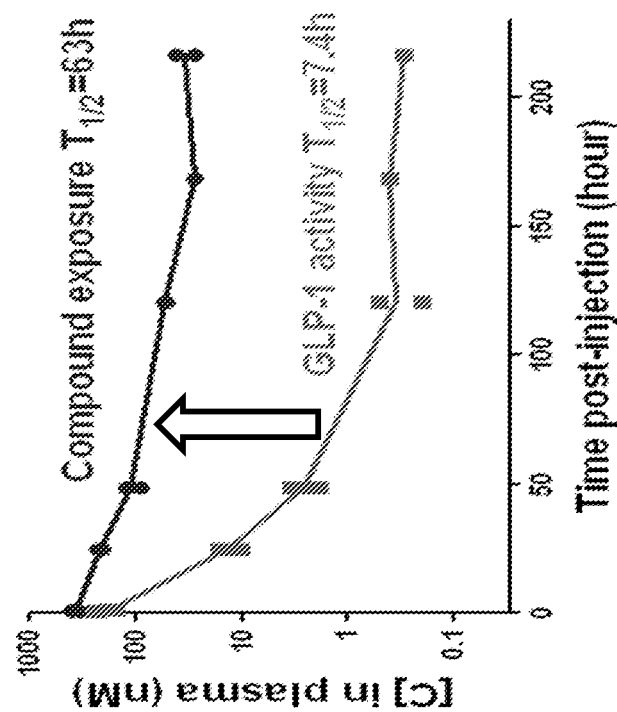


FIG. 10

PC9#2_GLP-1_VL

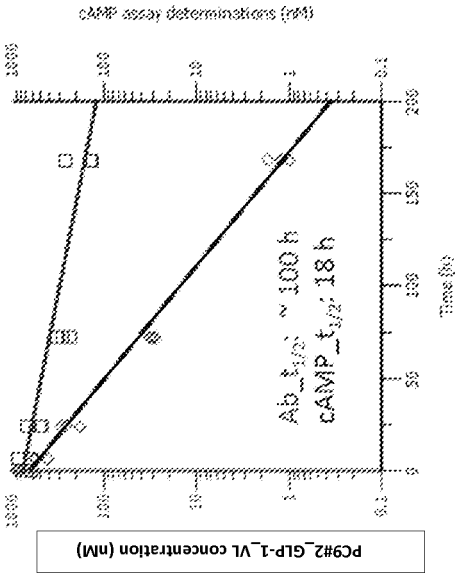
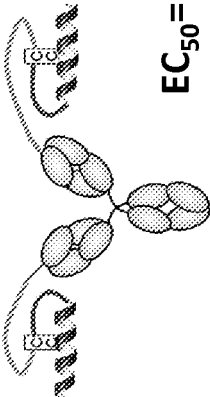


FIG. 11

Disulphide bridged variant
(PC9_2_DSB#3)



$EC_{50} = 340\text{pM}$

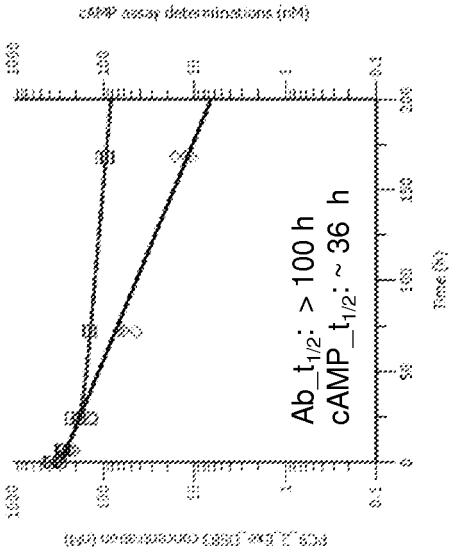


FIG. 12

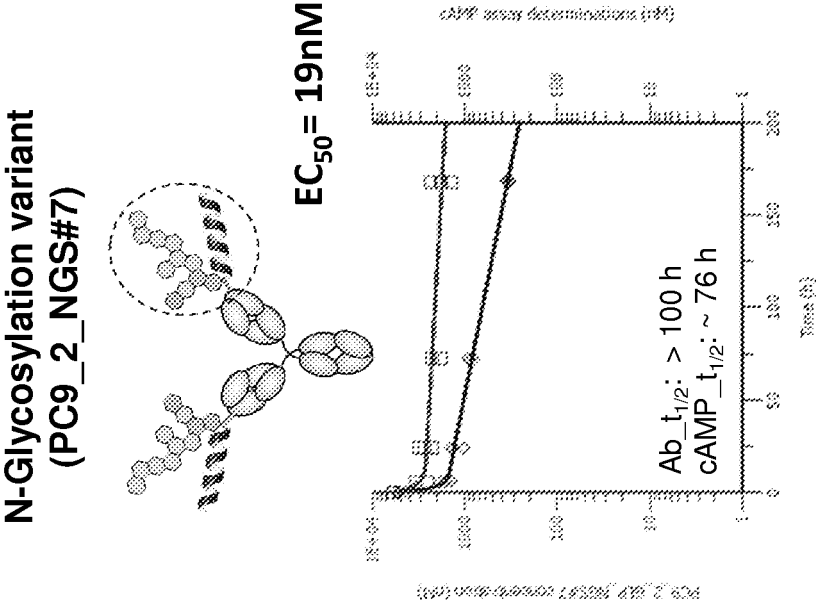


FIG. 13A

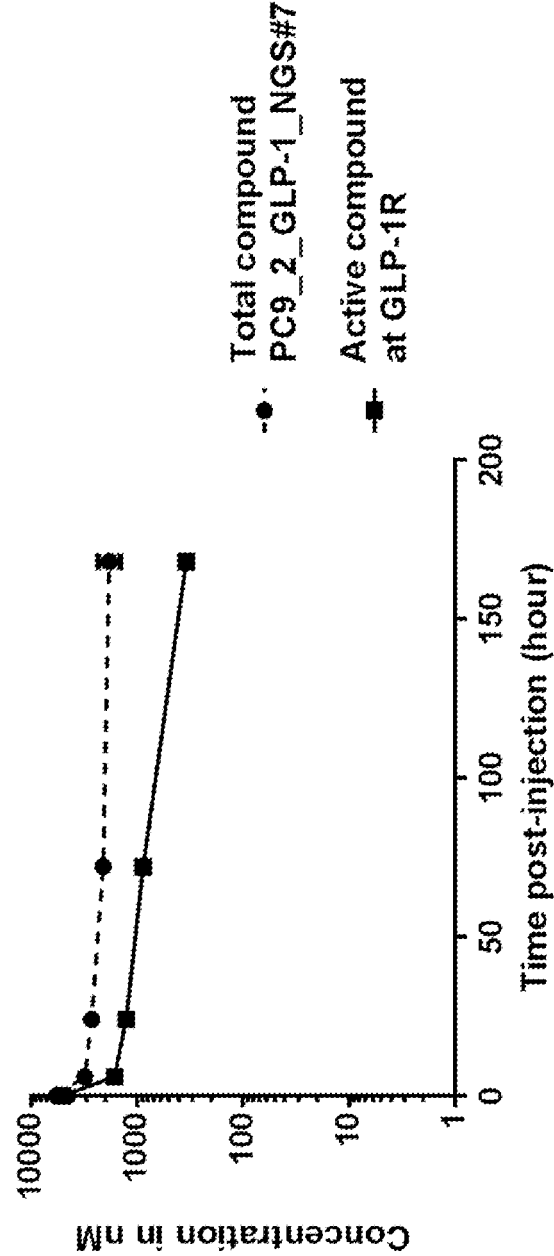


FIG. 13B

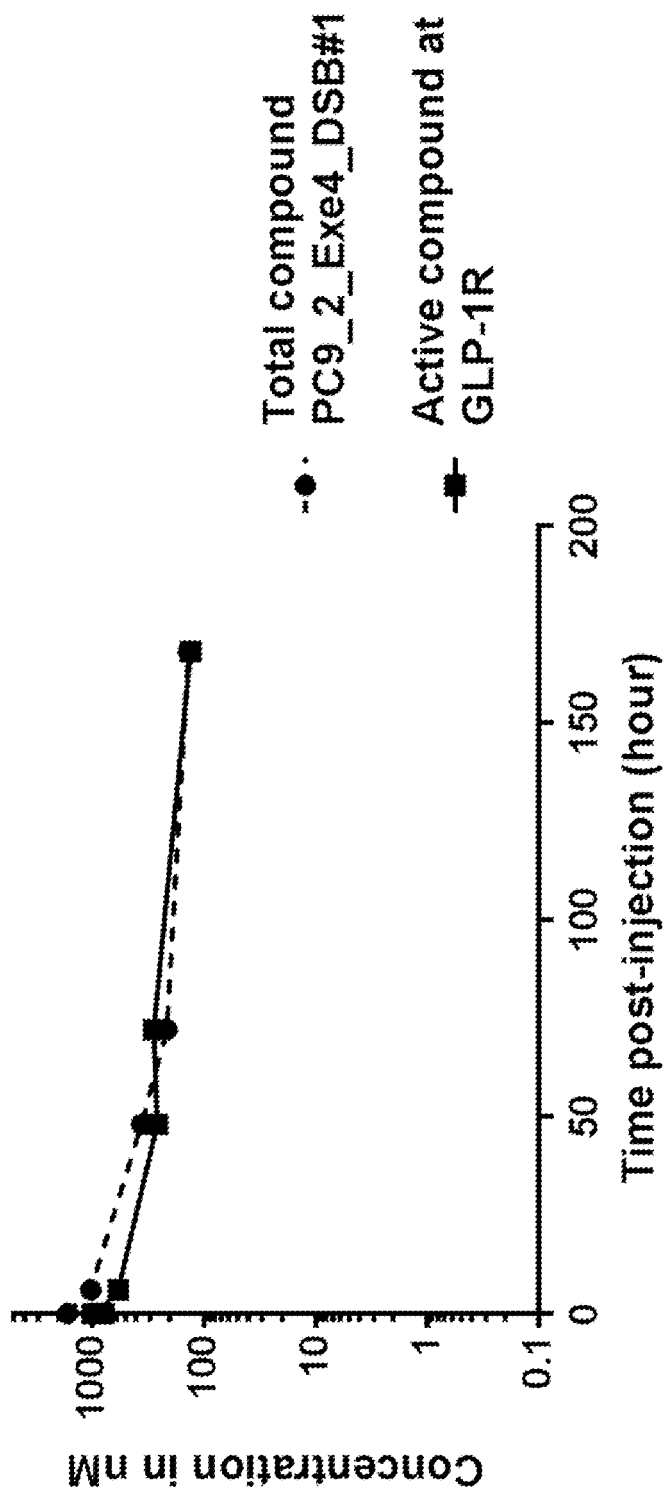


FIG. 13C

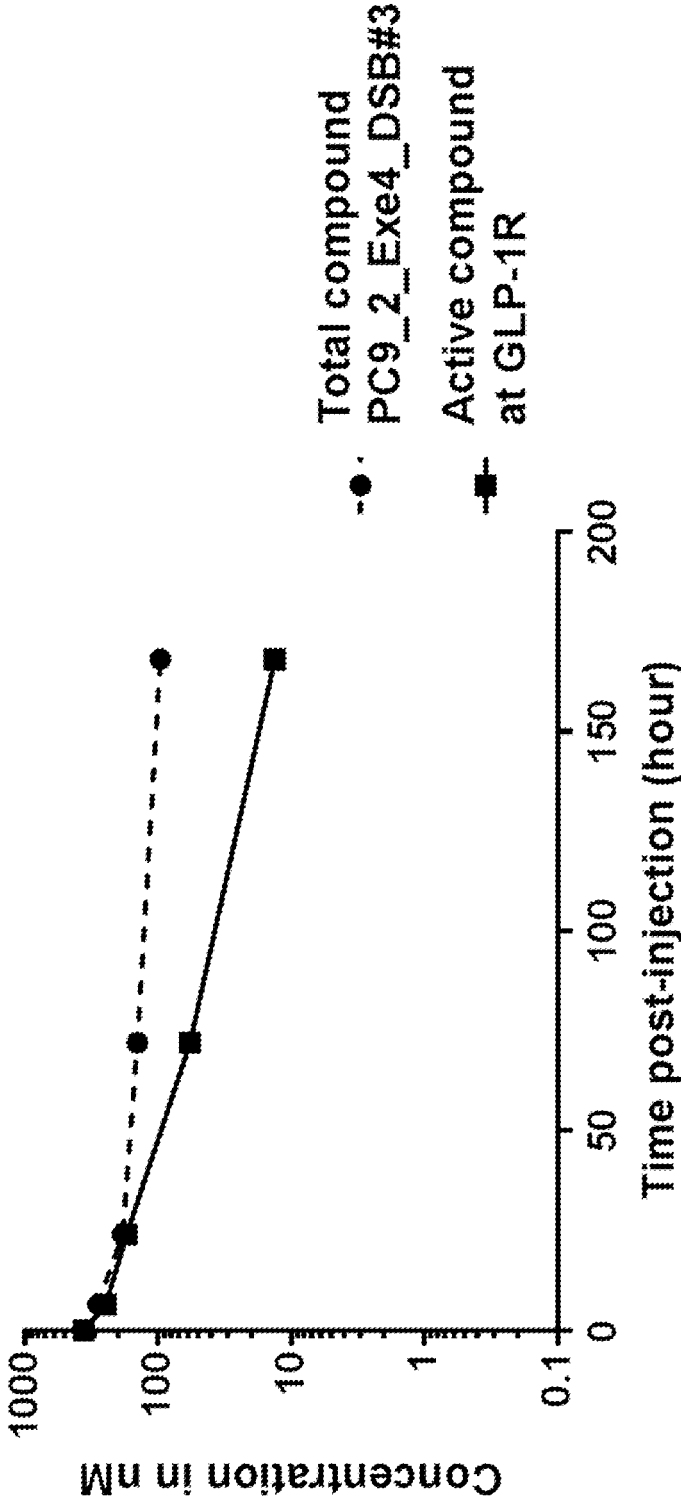


FIG. 14A

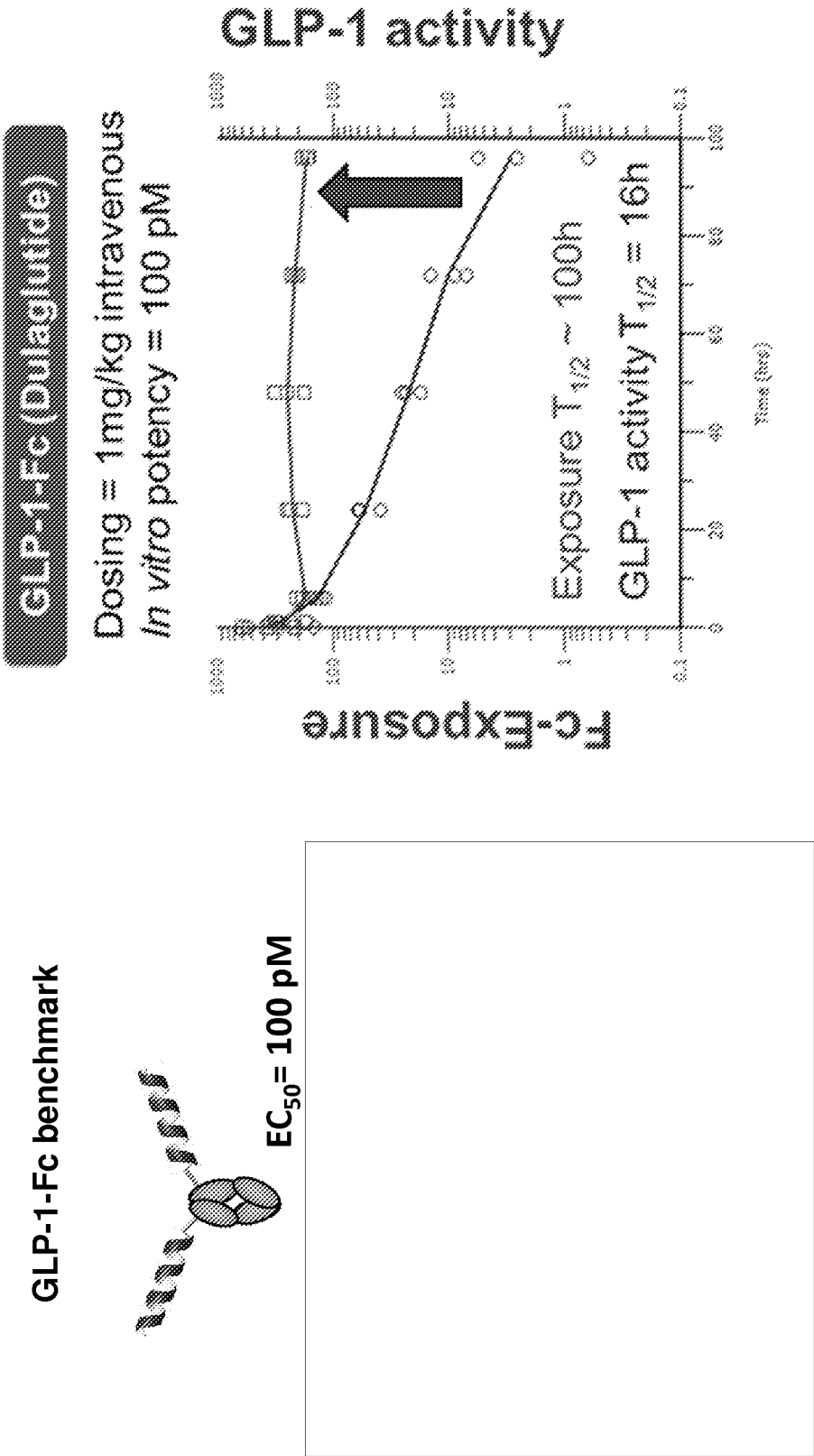


FIG. 14B

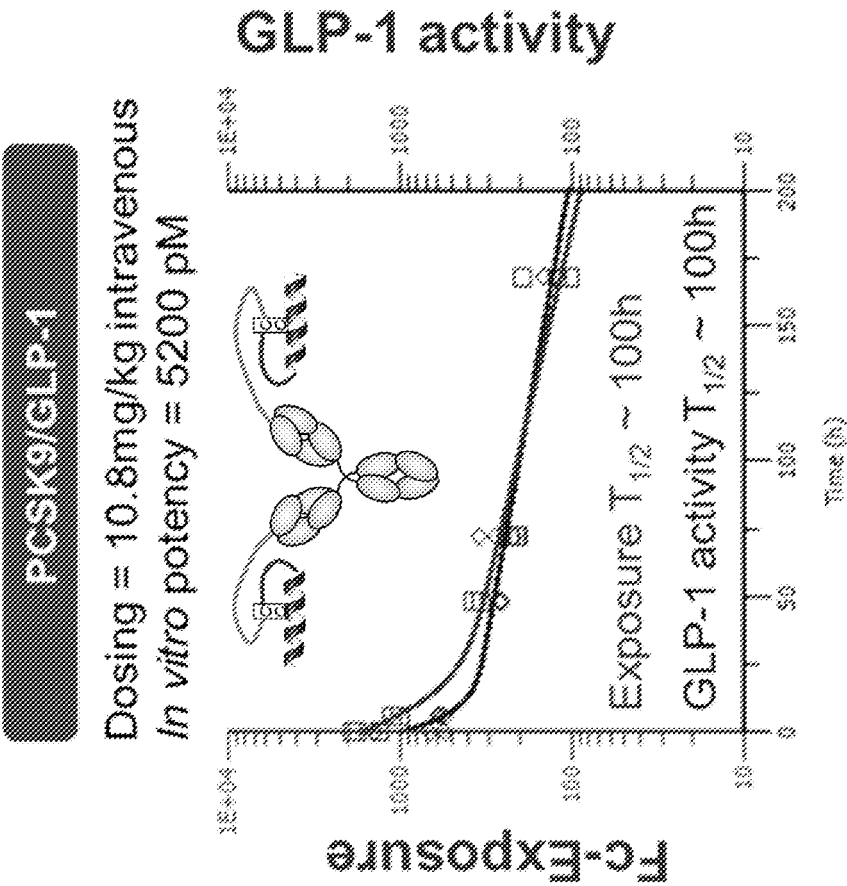


FIG. 15A

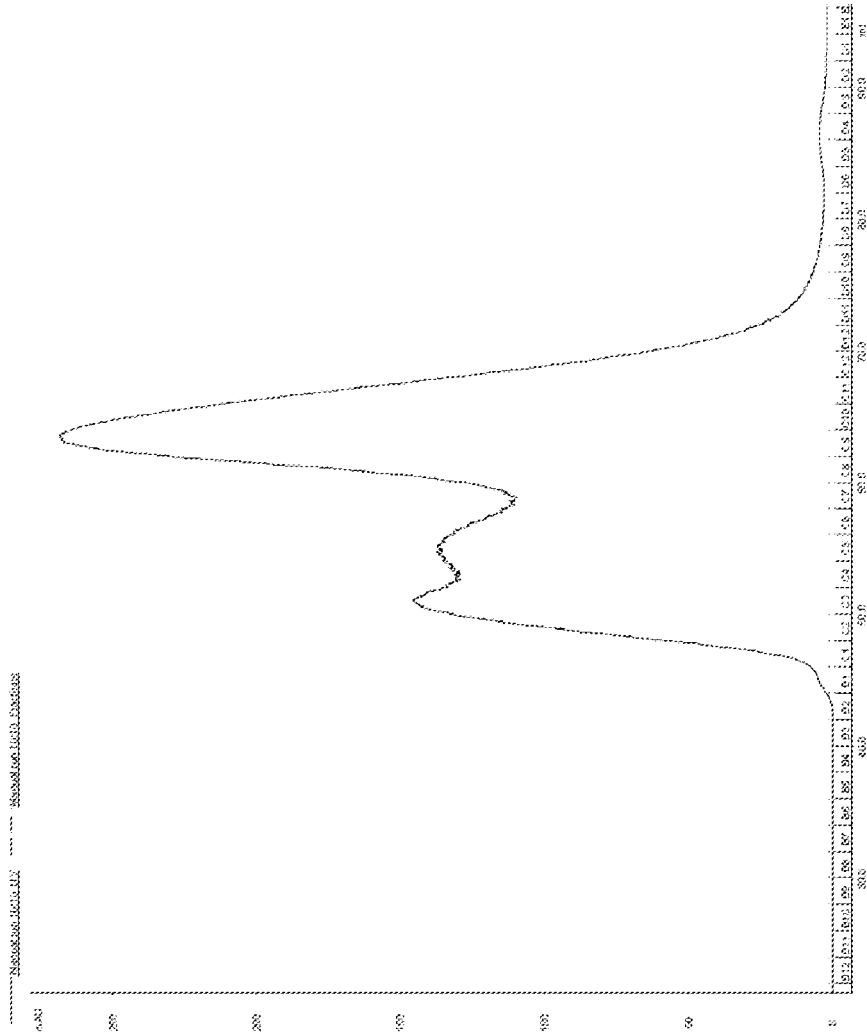


FIG. 15B

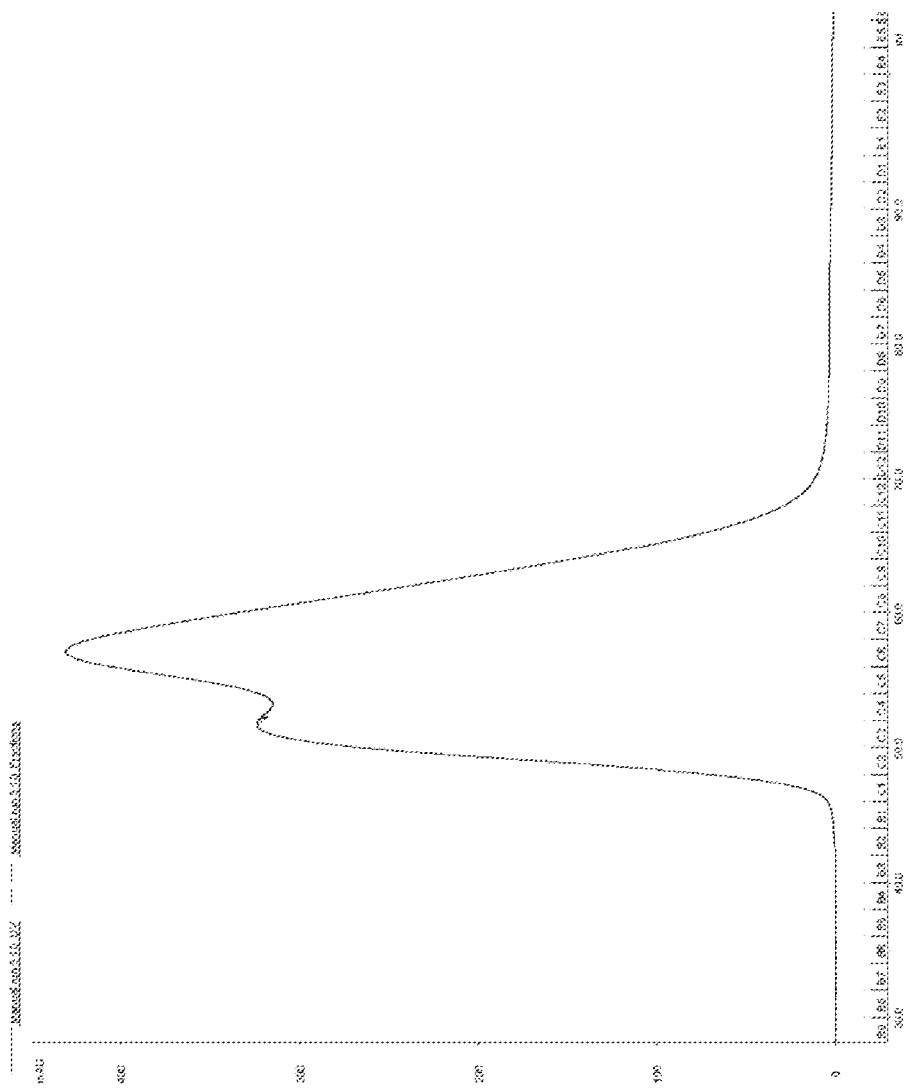


FIG. 16

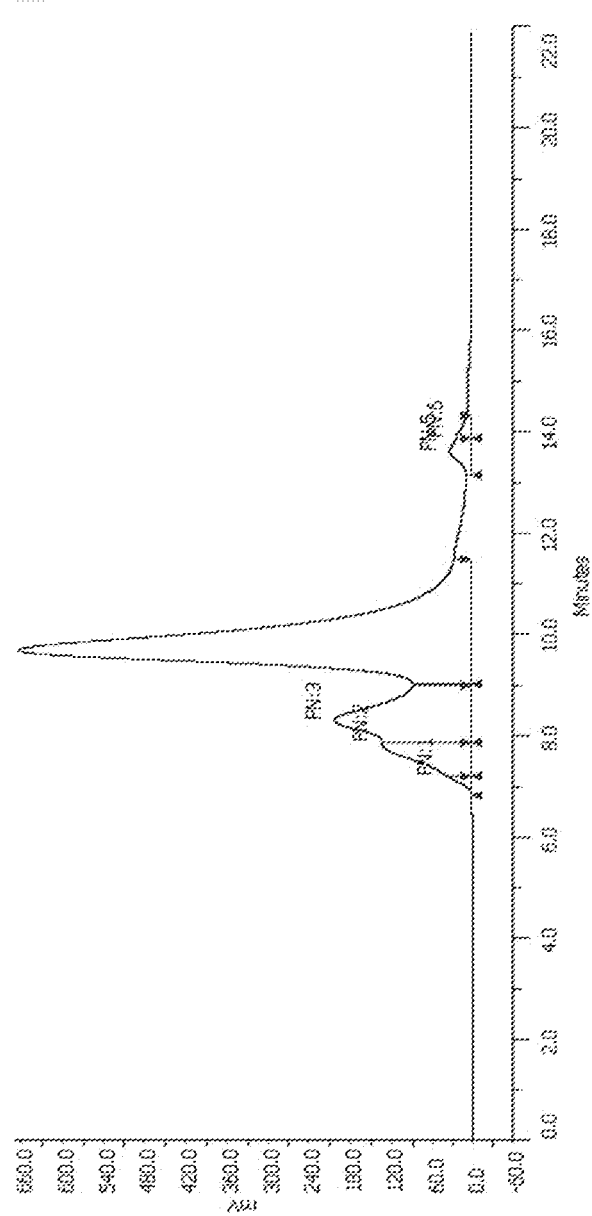


FIG. 17

Peptide name	1	21	22	34	41	53	
Exe4	H G E G T F T S D L S	K Q M E E E A V R L	F I E W L K N G G P	S S G A P P S			SEQ ID NO. 12
DSB#4	H G E G T F T S D L S	K Q M E E E A V R C	F I E W L K N G G P	S S G A G G S			SEQ ID NO. 33
DSB#5	H G E G T F T S C L S	K Q M E E E A V R L	F I E W L K N G G P	S S G A P P S	G G G G G G G C G G		SEQ ID NO. 34
DSB#6	H G E G T F T S C L S	K Q M E E E A V R L	F I E W L K N G G P	S S G A P P S	G G G G G G G C G G		SEQ ID NO. 35
DSB#7	H G E G T F T S D L S	K Q M E E E C V R L	F I E W L K N G G P	S S G A P P G	C G		SEQ ID NO. 36
DSB#8	H G E G T F T S D L S	K Q M E E E C V R L	F I E W L K N G G P	S S G A P P G	C G		SEQ ID NO. 37
DSB#9	H G E G T F T S D L S	K Q M E E E A V R C	F I E W L K N G G P	S S G A P P C G			SEQ ID NO. 38
DSB#10	H G E G T F T S D L S	K Q M E E E A V R C	F I E W L K N G G P	S S G A P P G C			SEQ ID NO. 39
DSB#11	H G E G T F T S D L S	K Q M E E E A V R L	F I E C L K N G G P	S S G A C G G S			SEQ ID NO. 40
DSB#12	H G E G T F T S D L S	K Q M E E E A V R L	F I E C L K N G G P	S S G A P C P S			SEQ ID NO. 41
DSB#13	H G E G T F T S D L S	K Q M E E E A V R L	F I E C L K N G G P	S S G A P P C S			SEQ ID NO. 42

FIG. 18

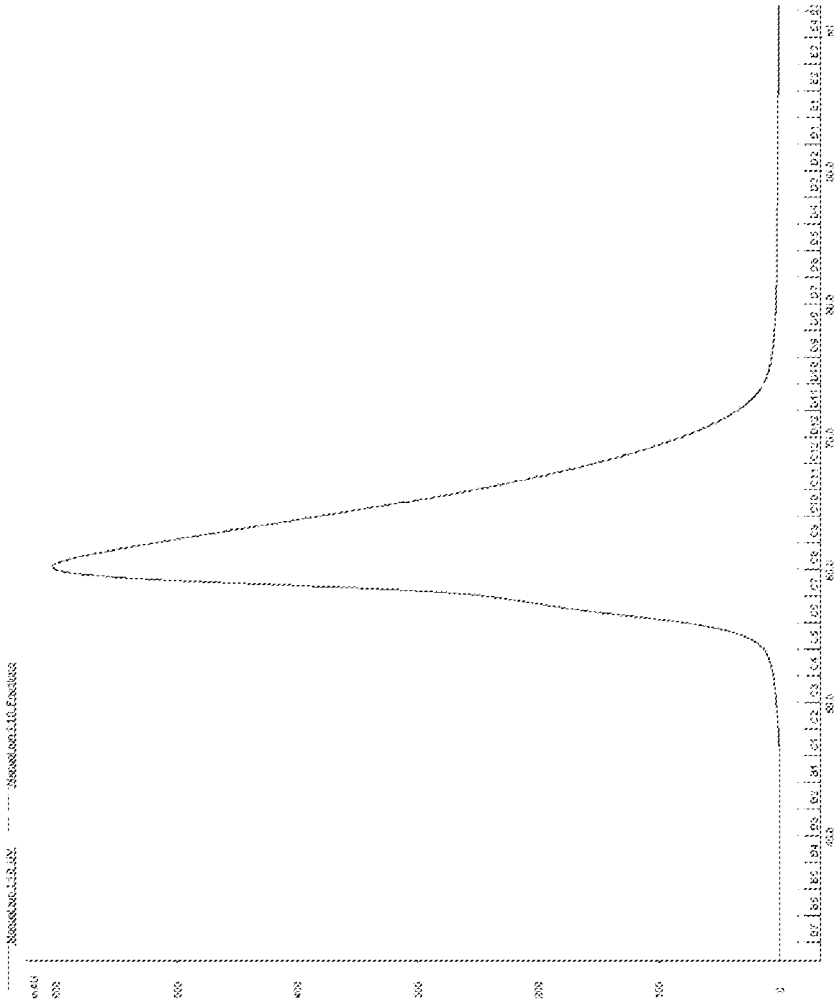


FIG. 19

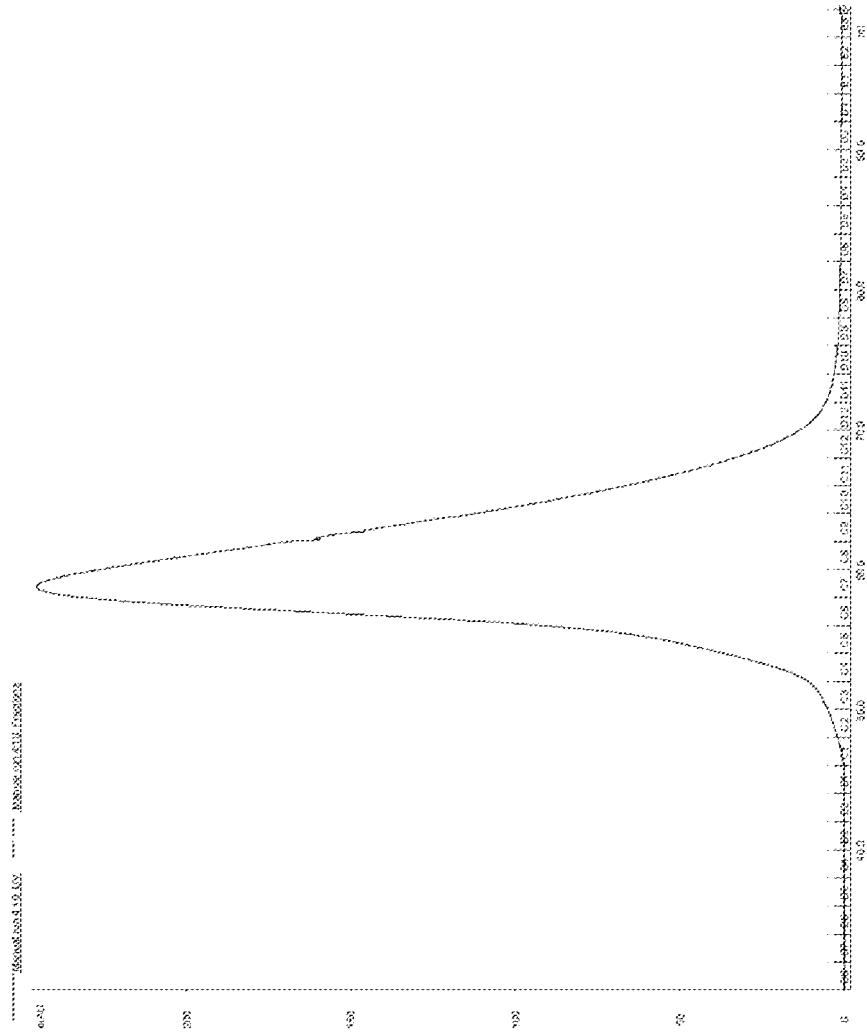


FIG. 20

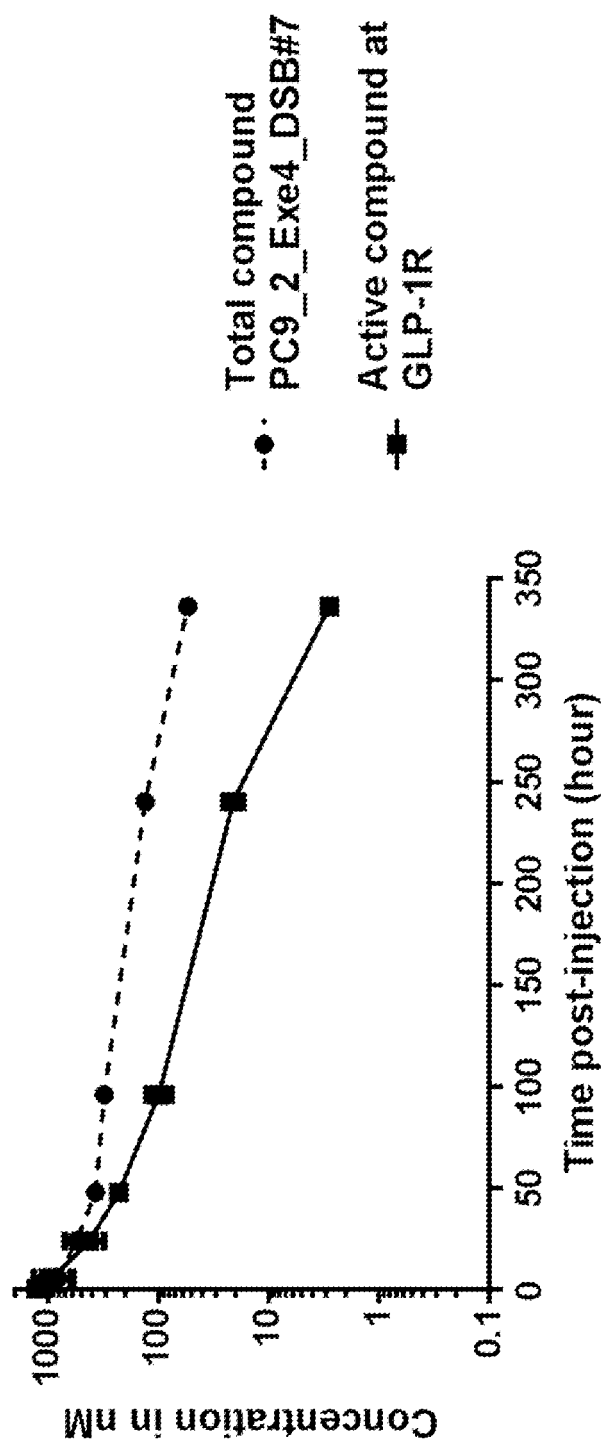


FIG. 21

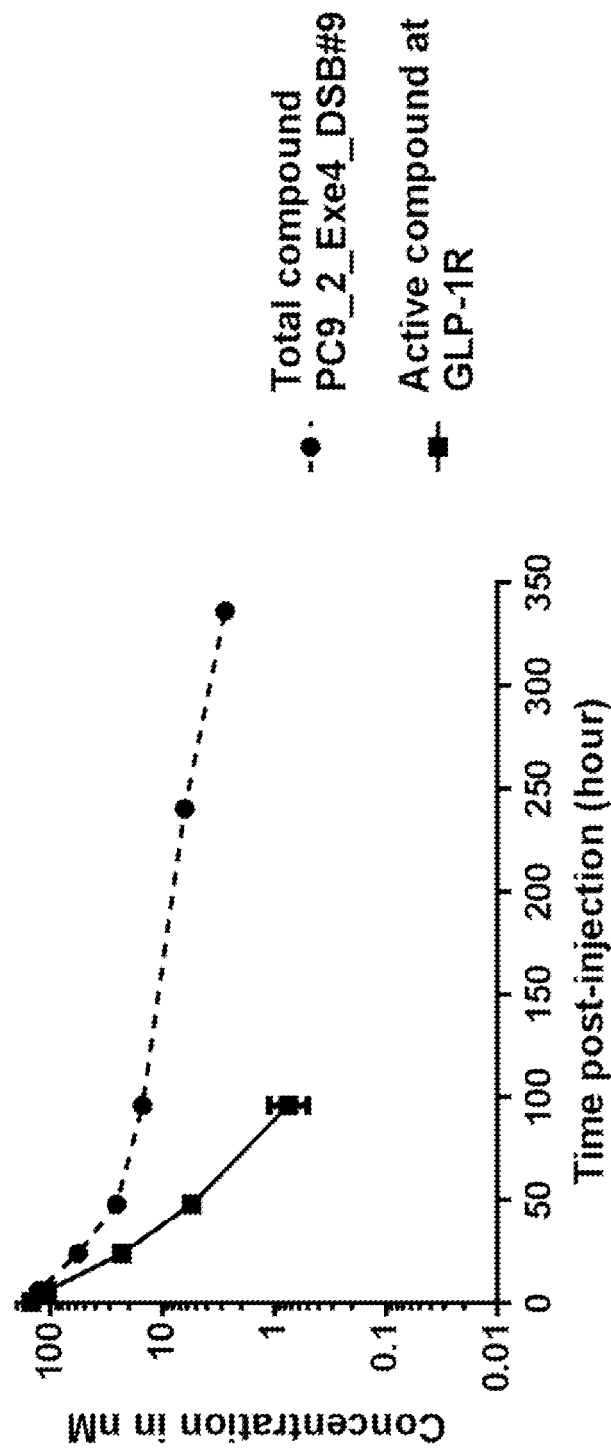


FIG. 22A

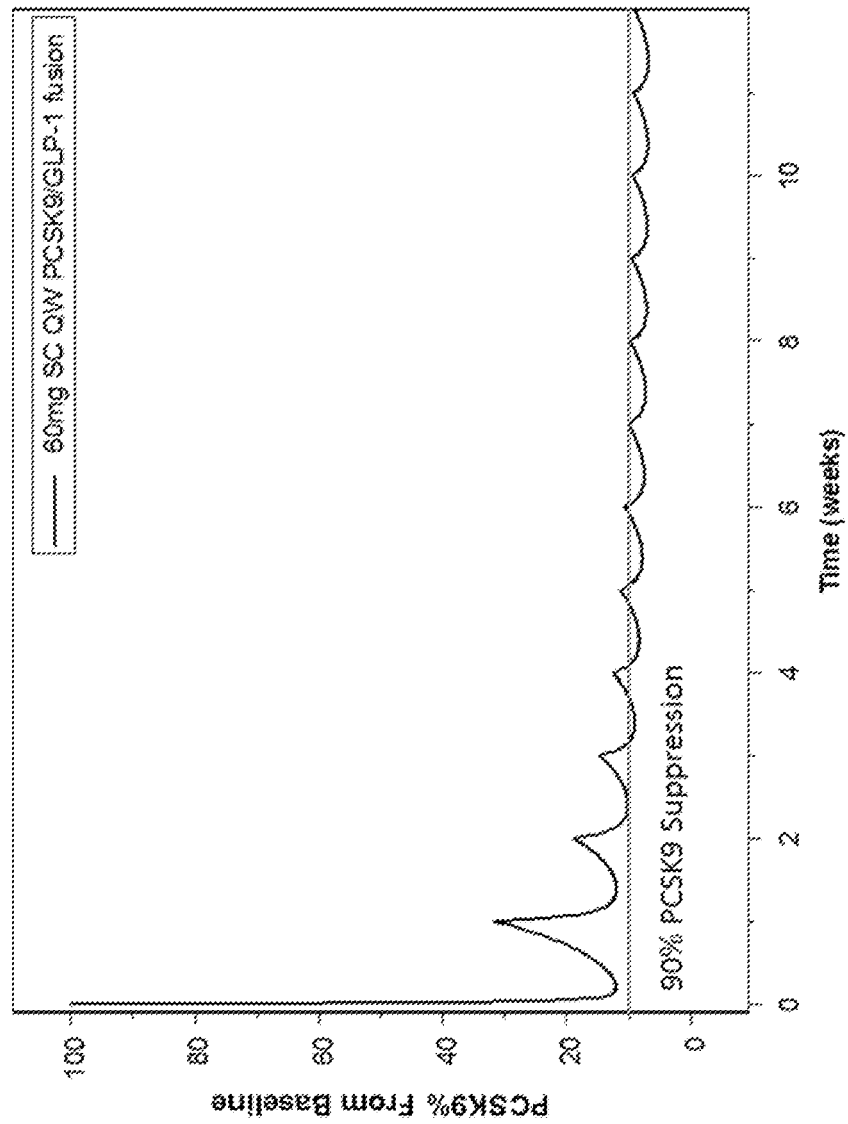


FIG. 22B

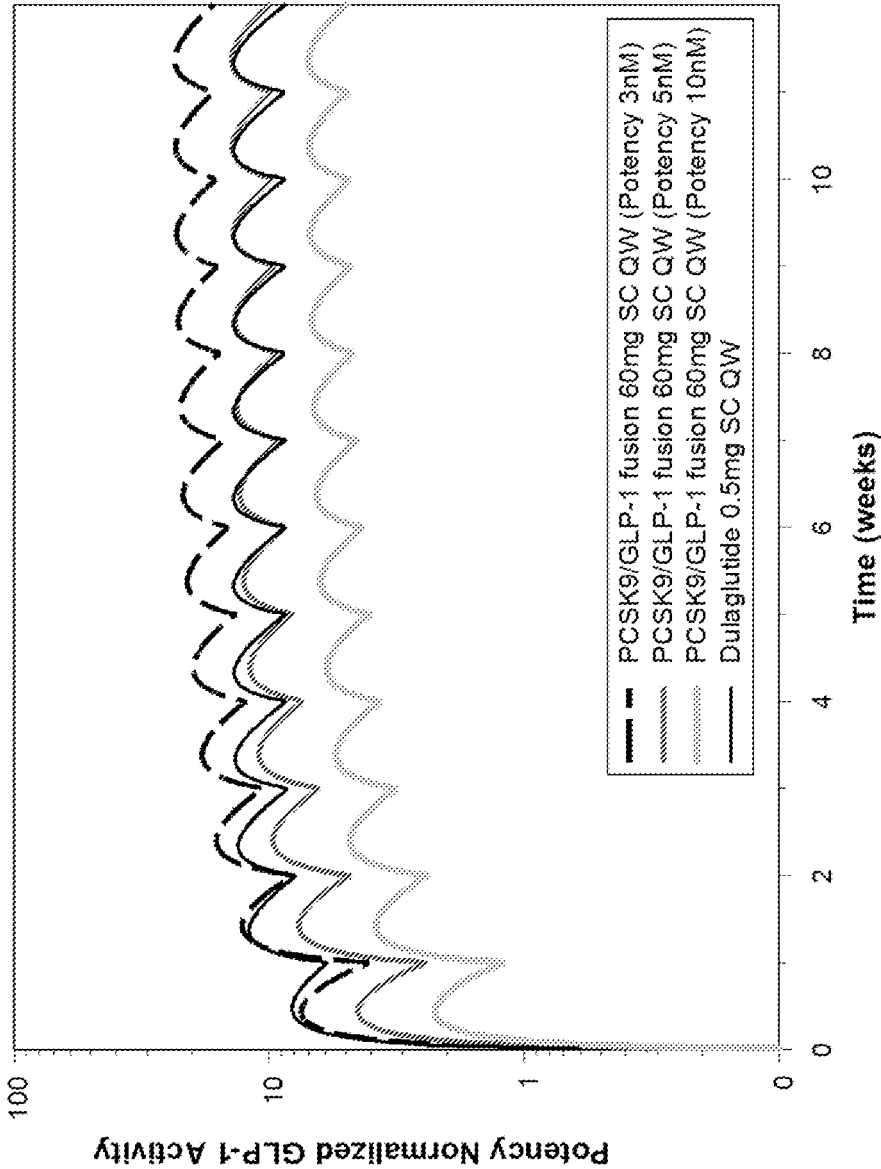


FIG. 23

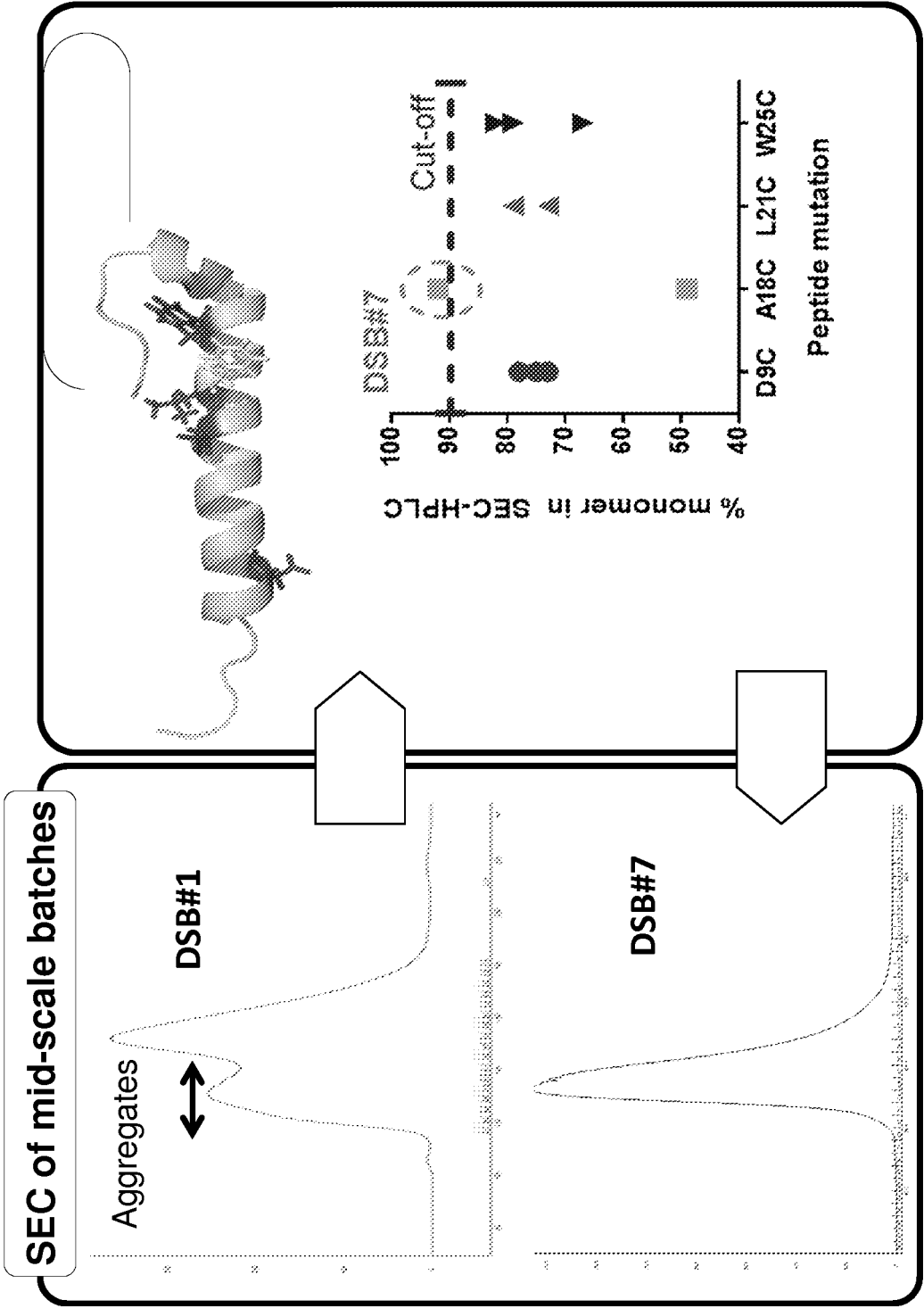


FIG. 24

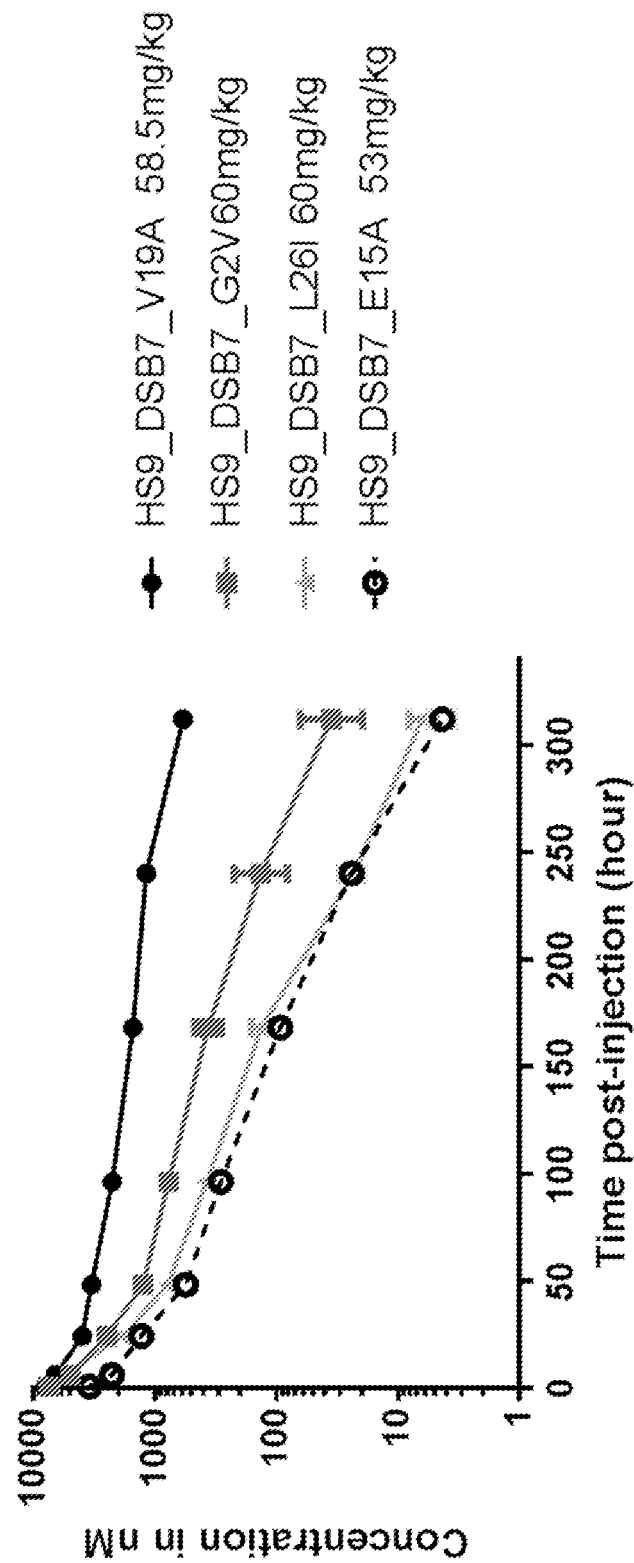


FIG. 25

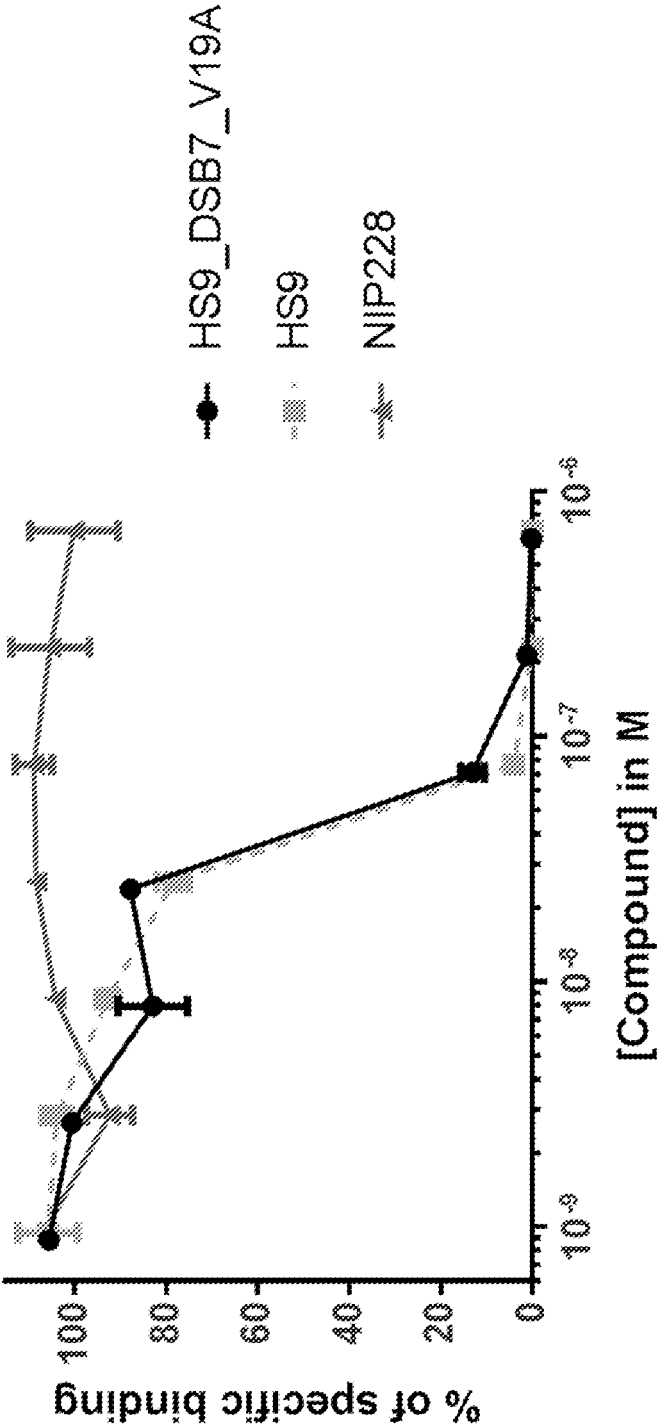


FIG. 26

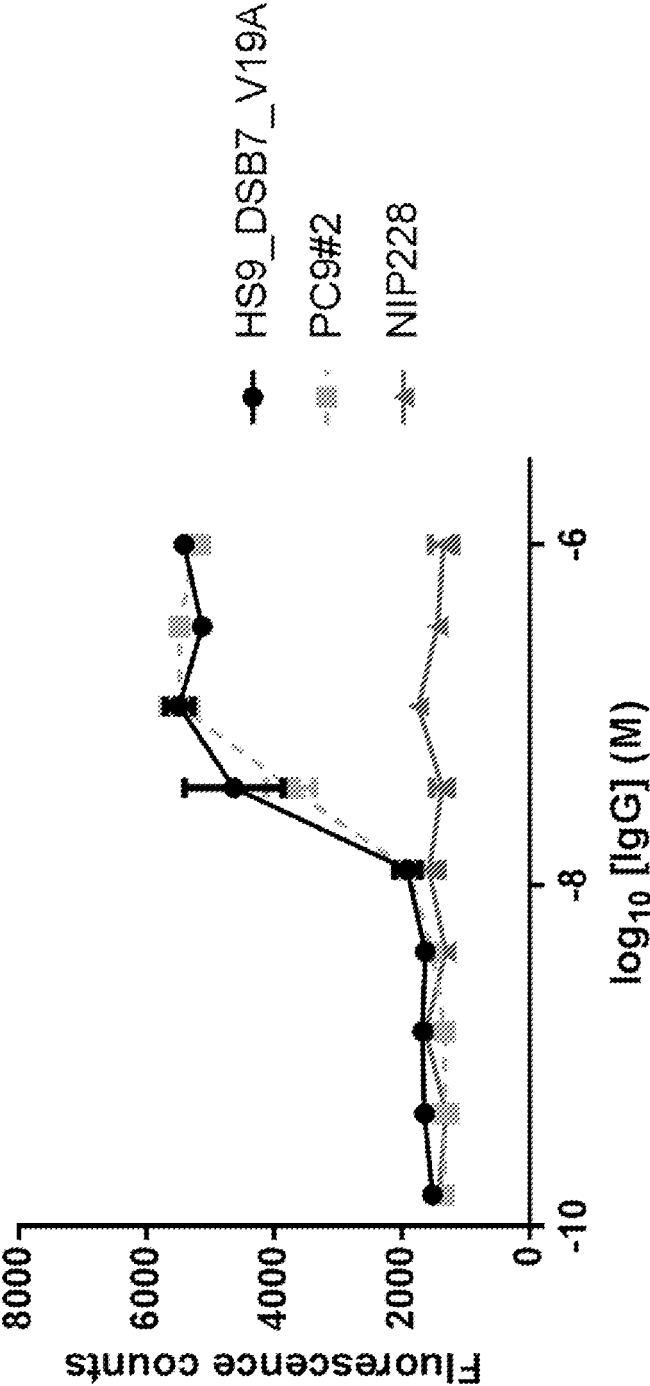


FIG. 27

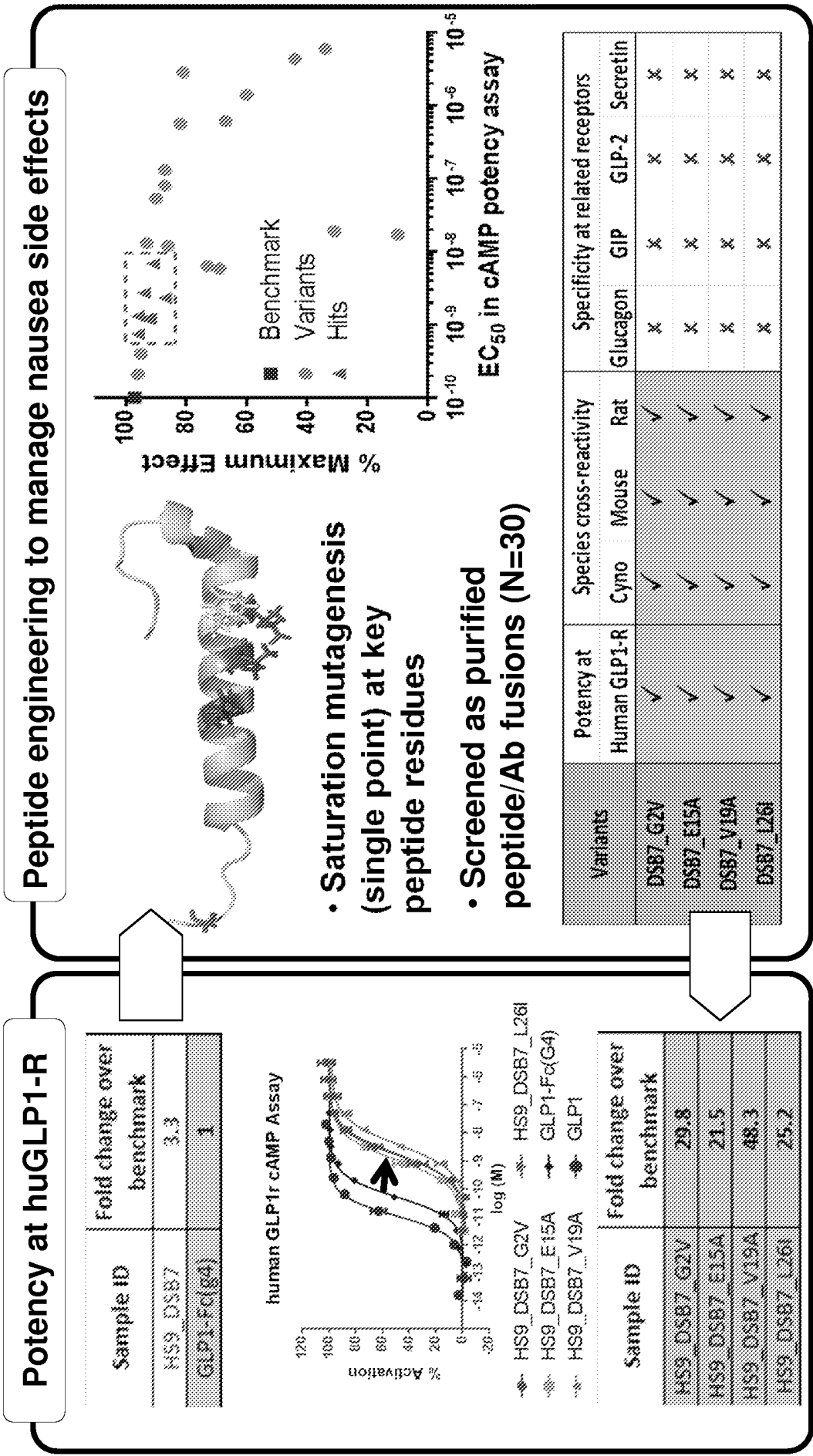


FIG. 28A

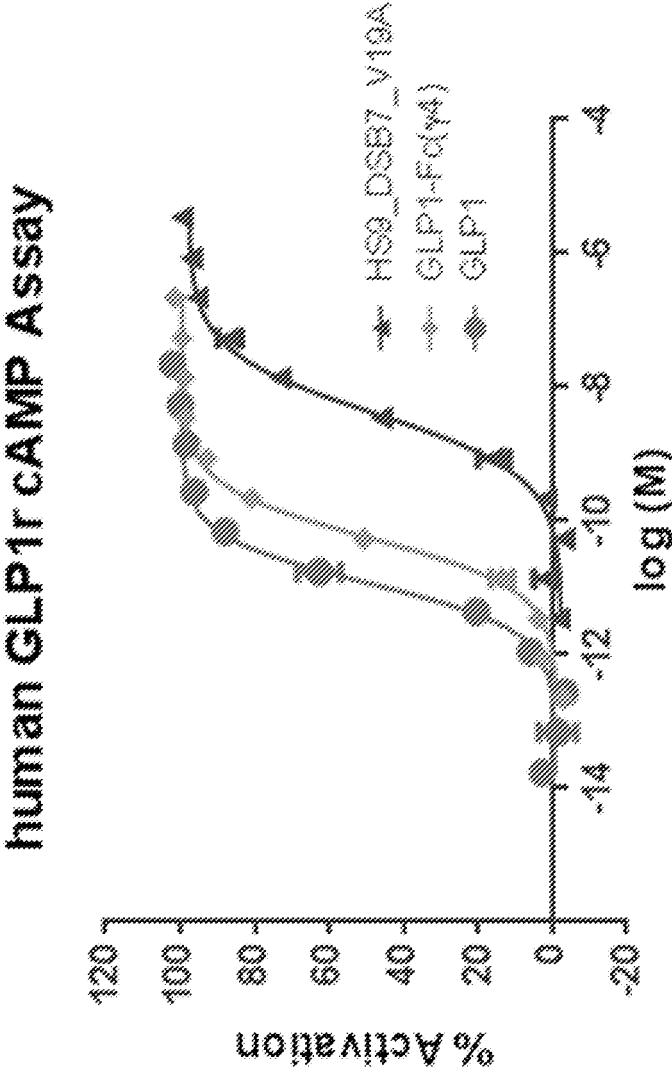


FIG. 28B

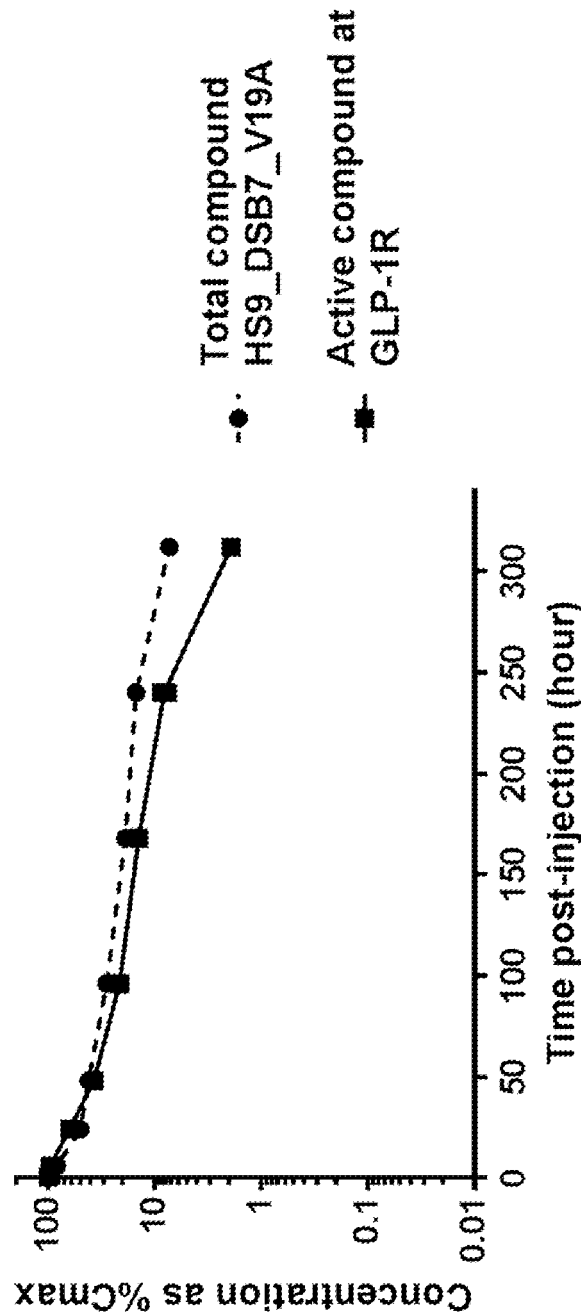


FIG. 29A-D

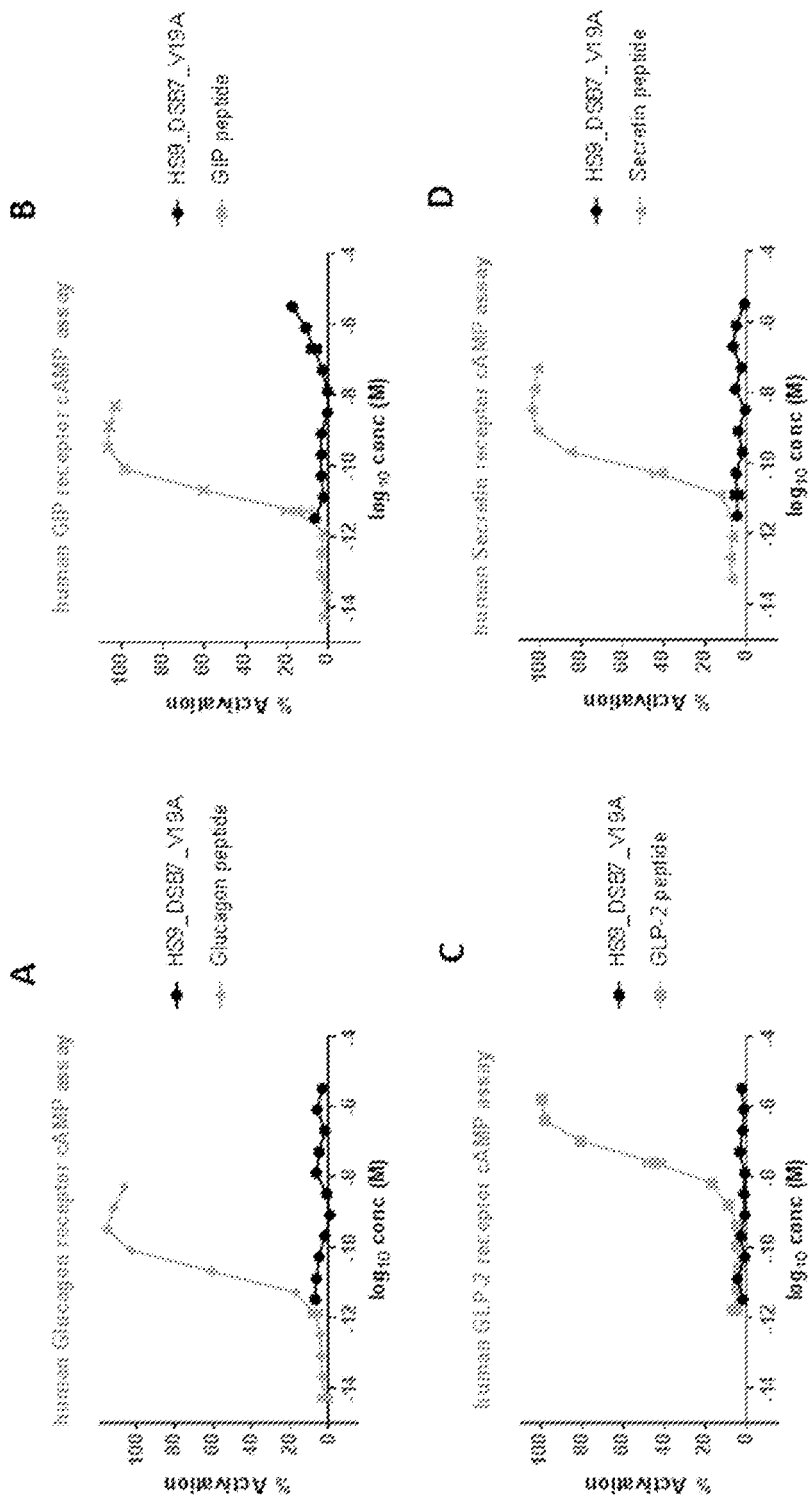


FIG. 30B

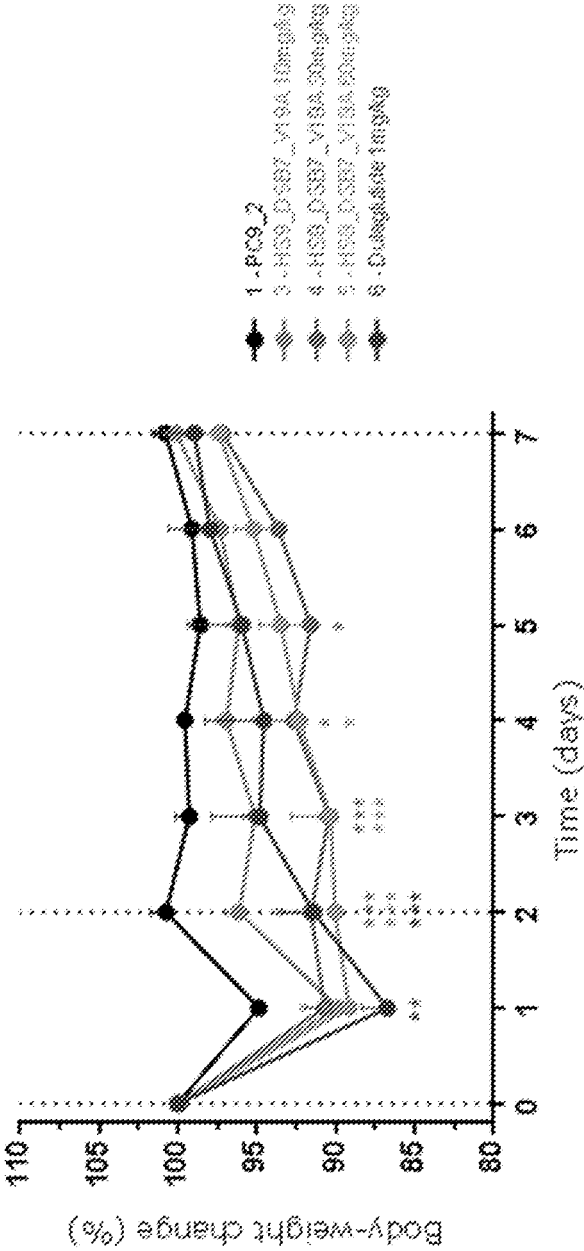


FIG. 31

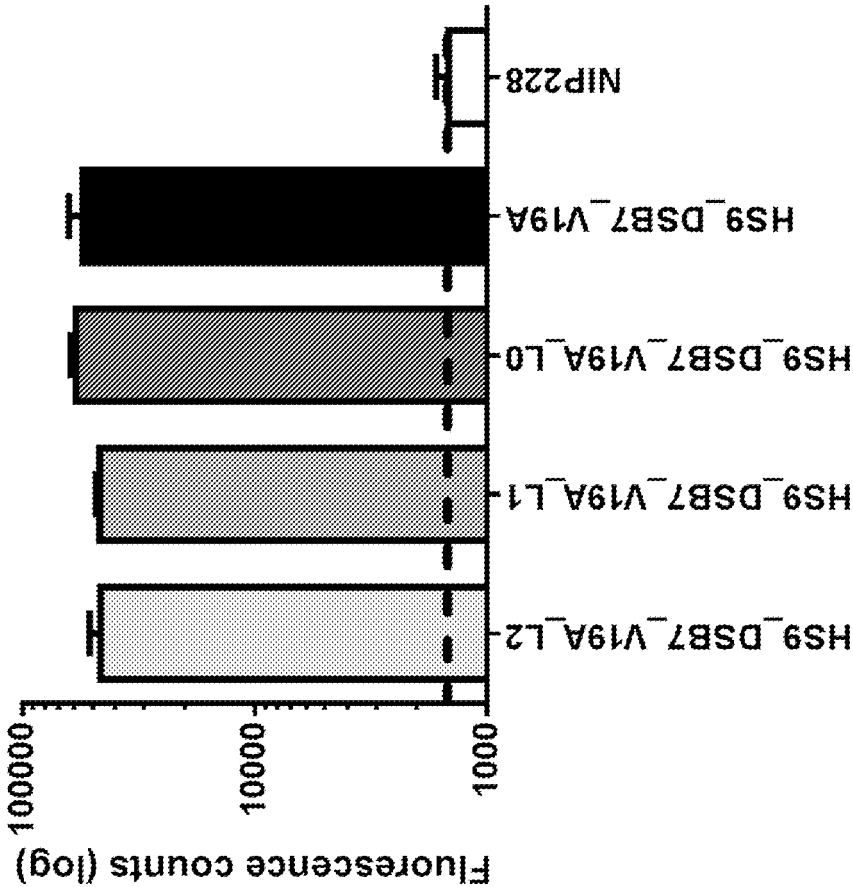


FIG. 32

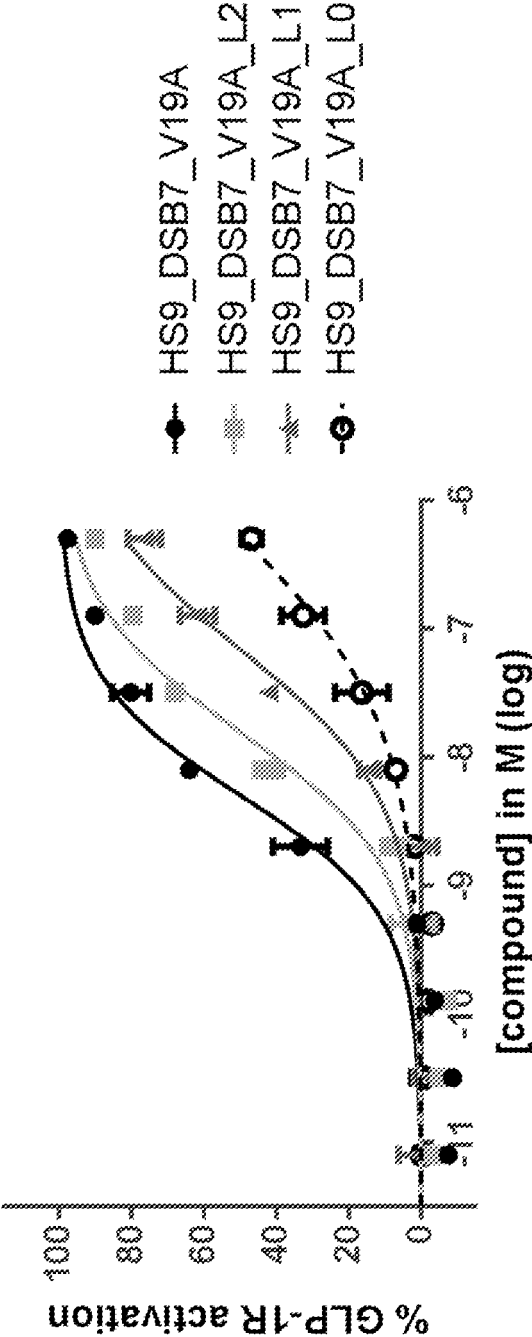


FIG. 33

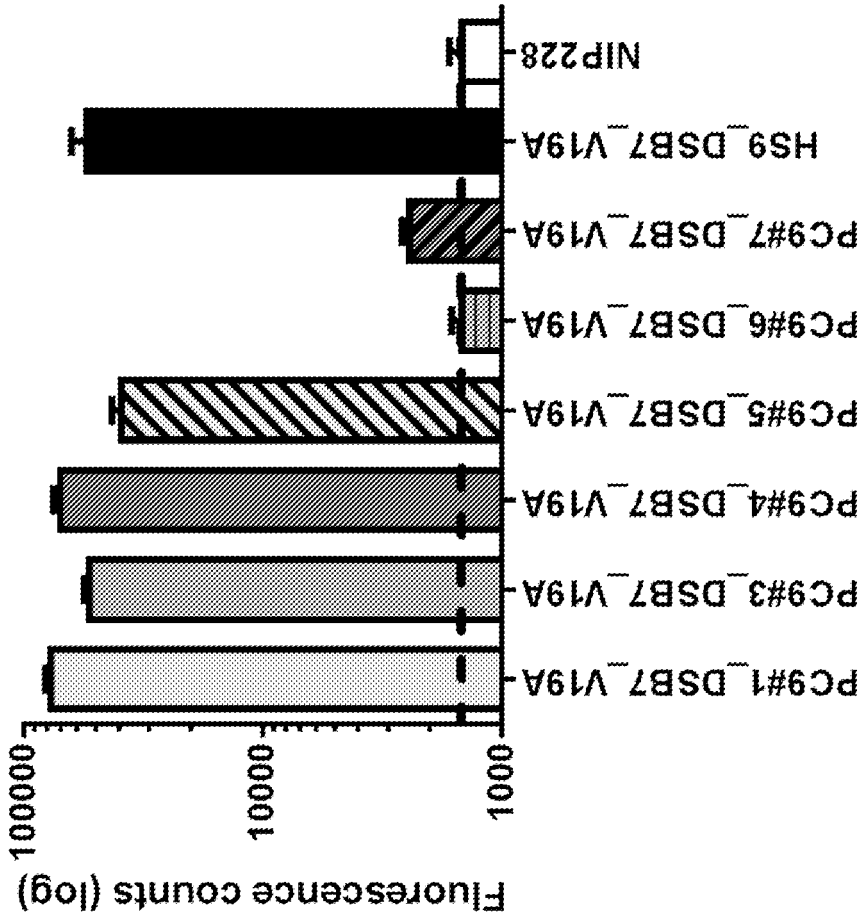


FIG. 34

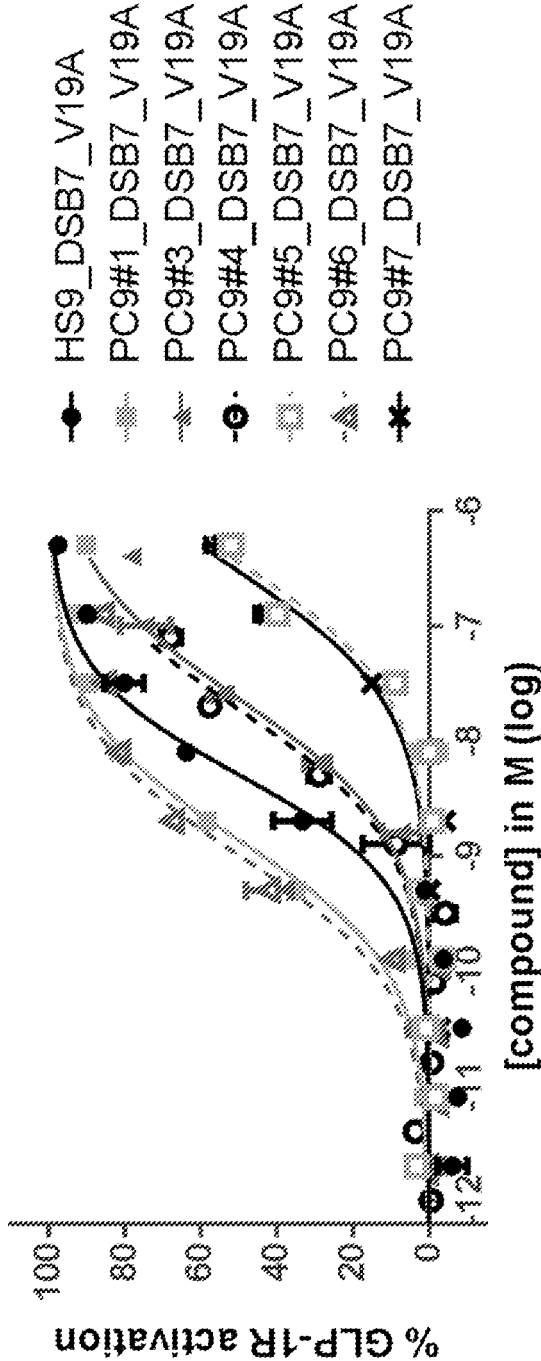


FIG. 35

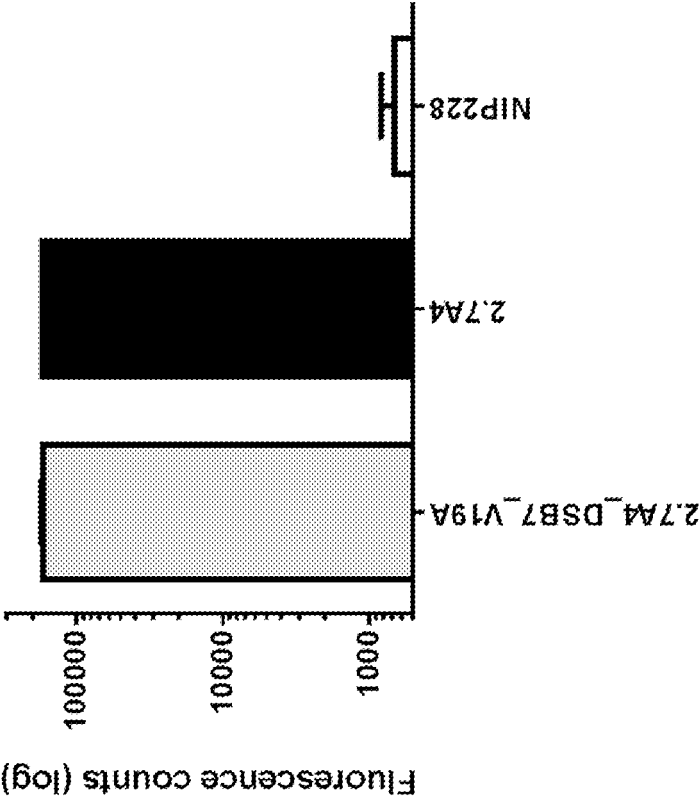


FIG. 36

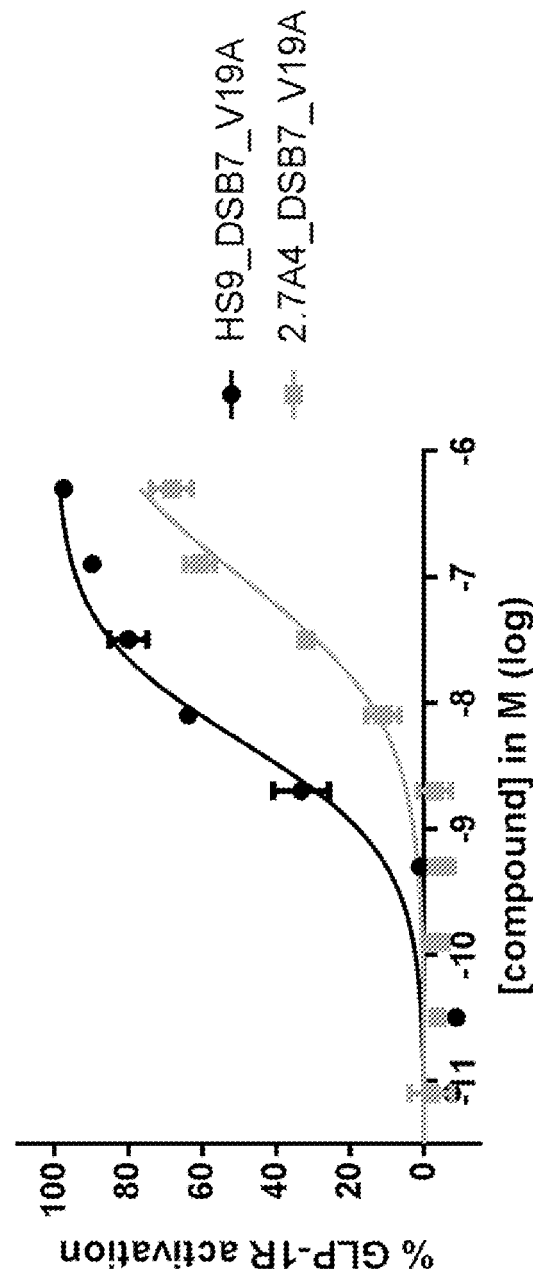


FIG. 37

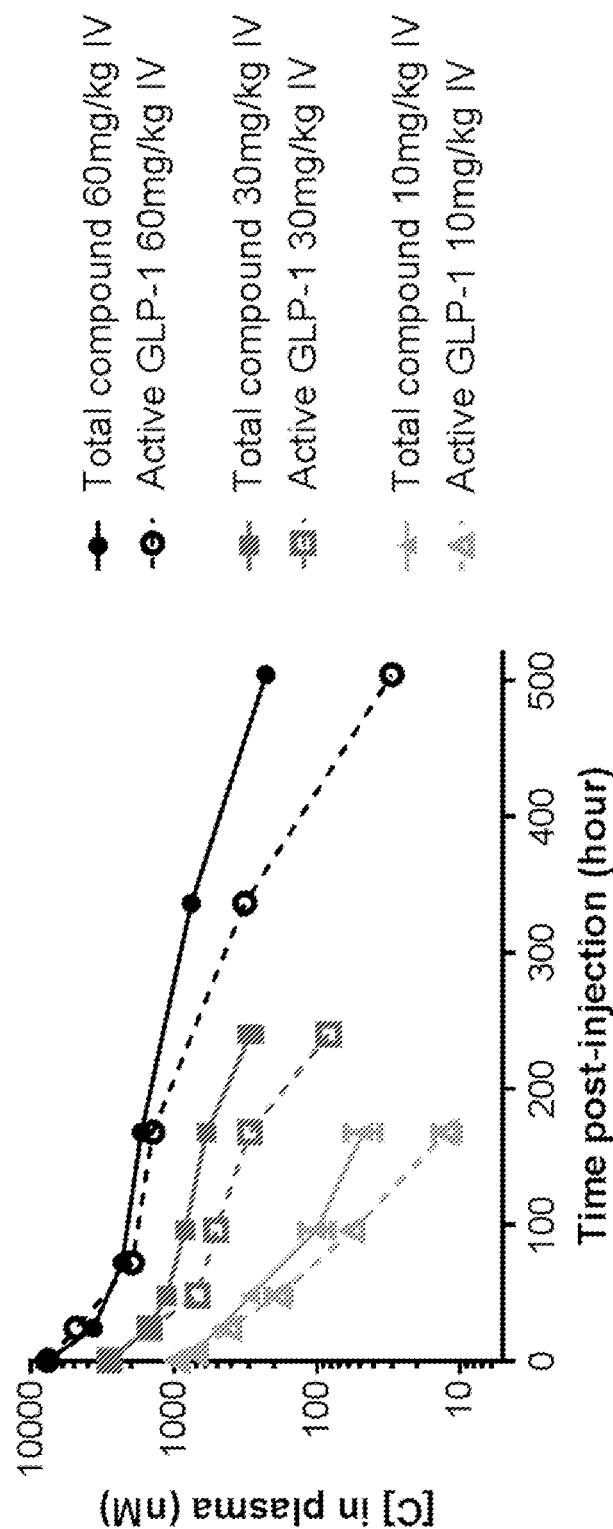


FIG. 38

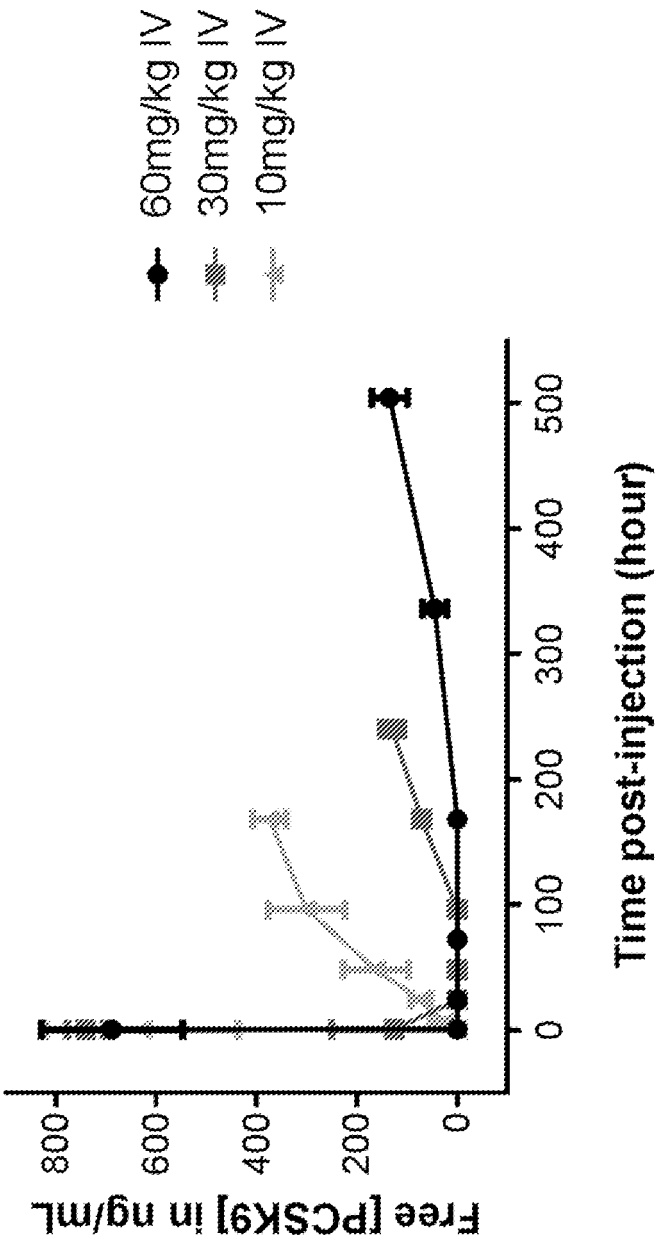


FIG. 39

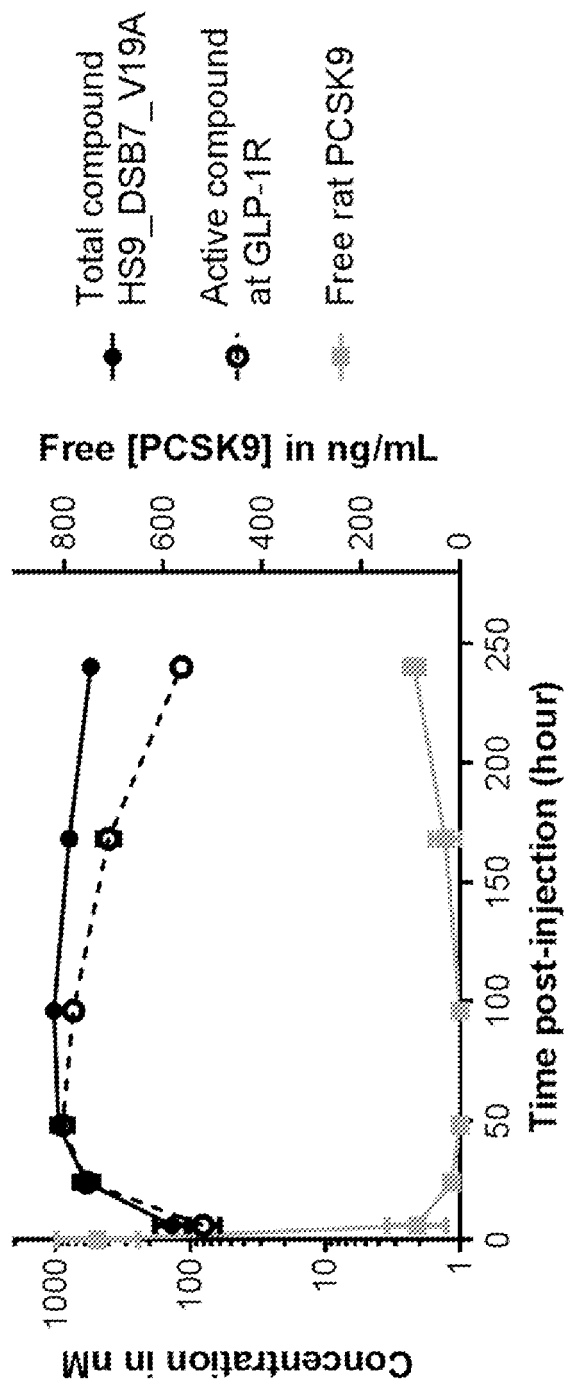


FIG. 40A

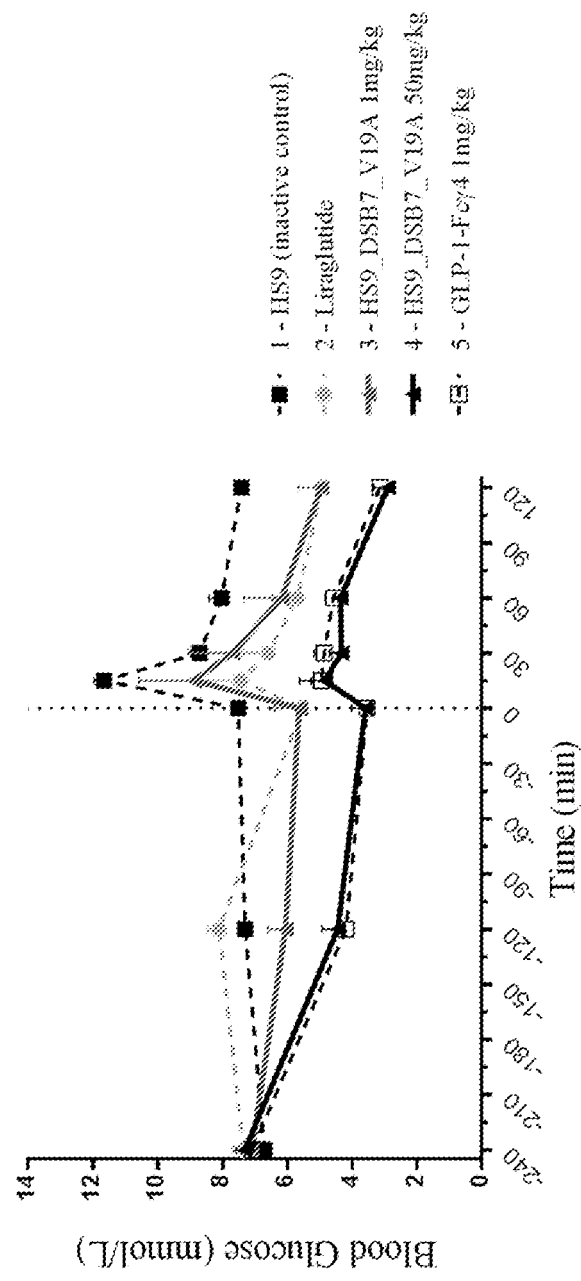


FIG. 40B

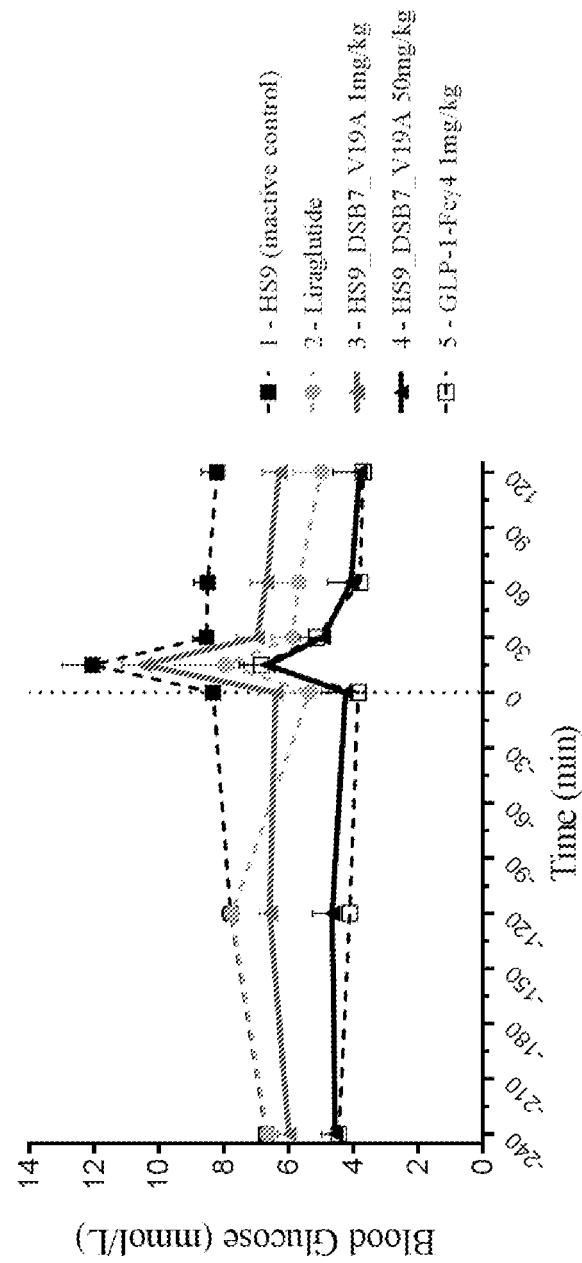


FIG. 40C

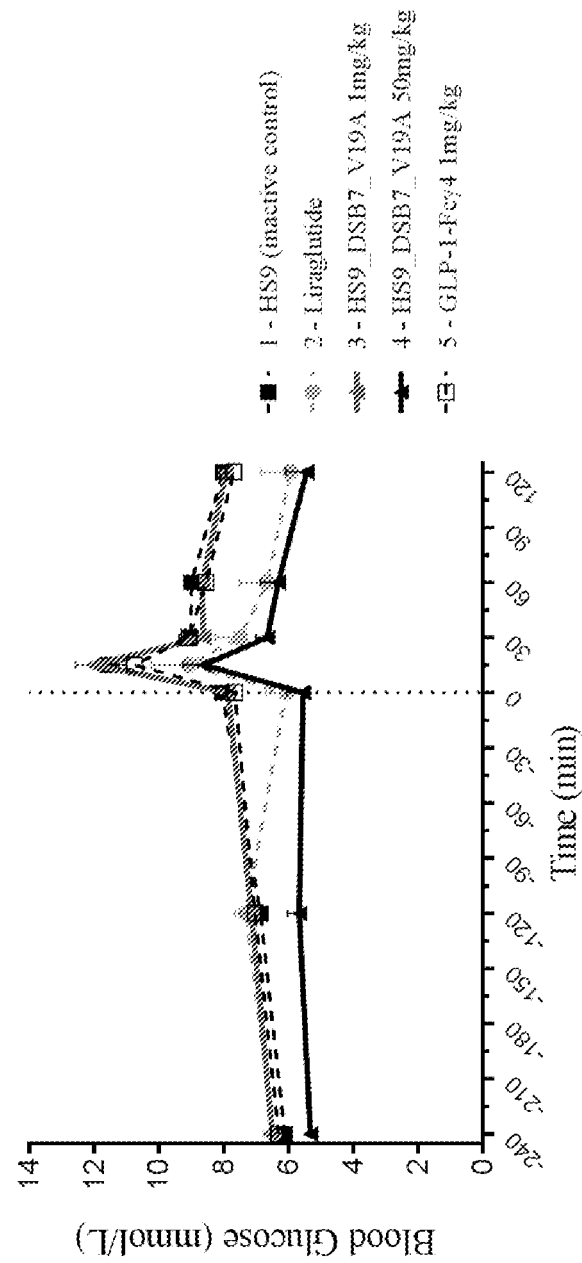


FIG. 41

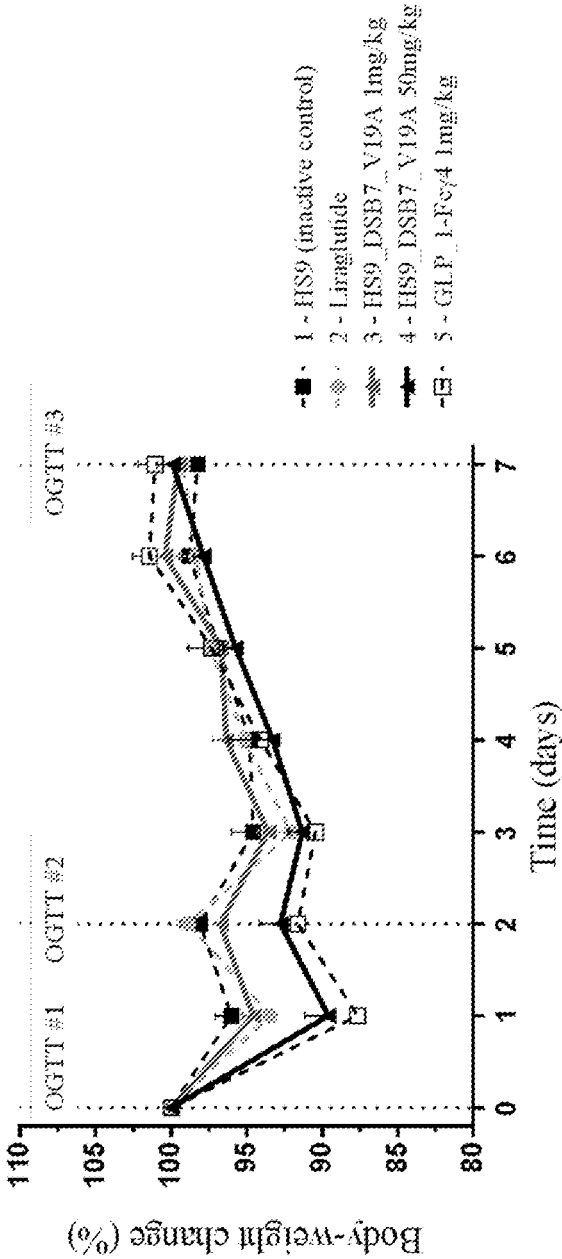


FIG. 42A

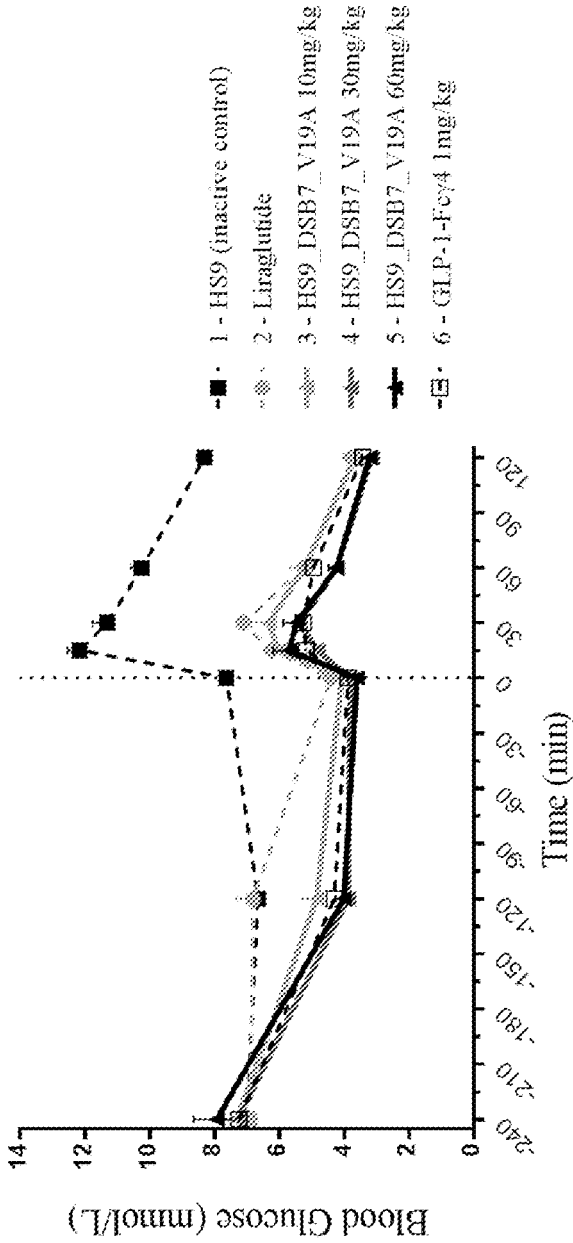


FIG. 42B

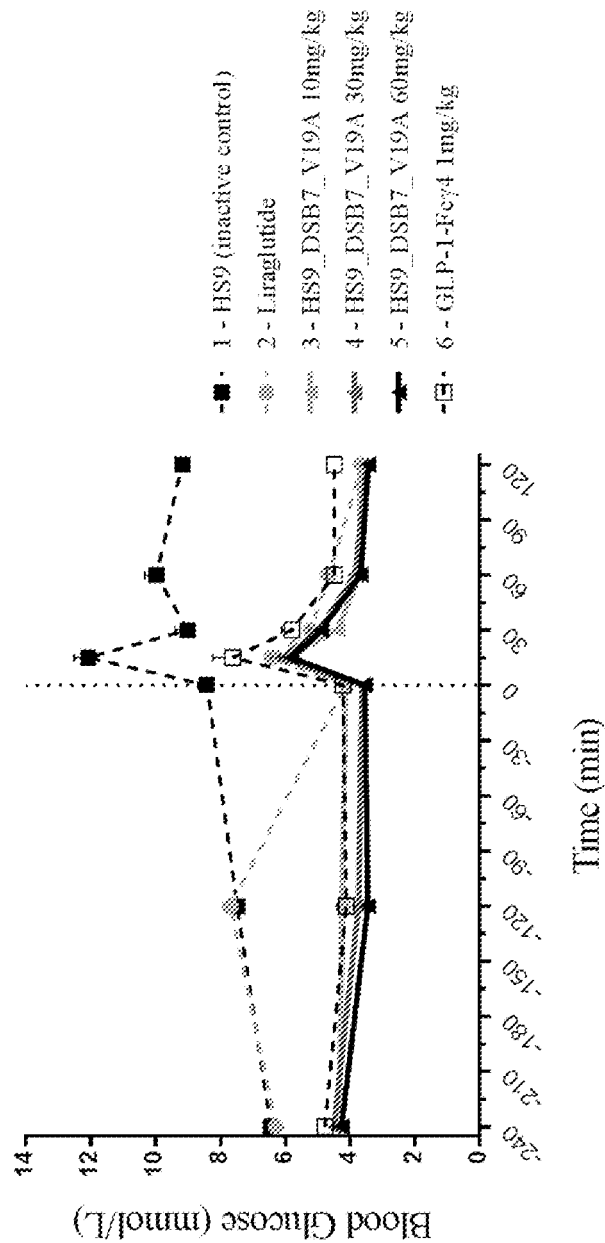


FIG. 42C

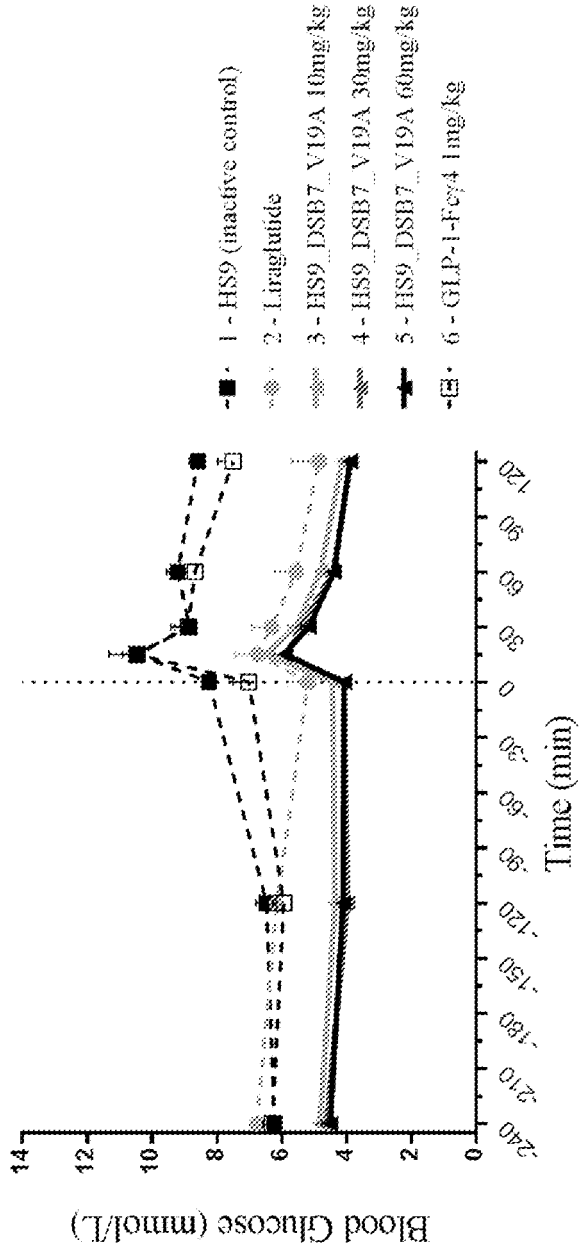


FIG. 43

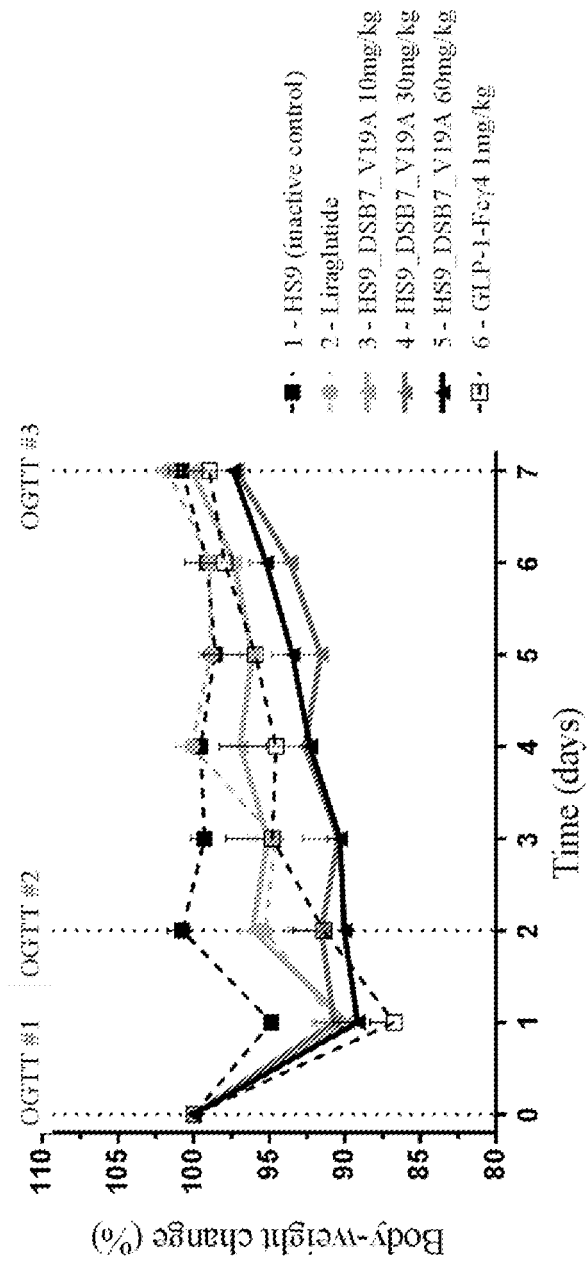


FIG. 44

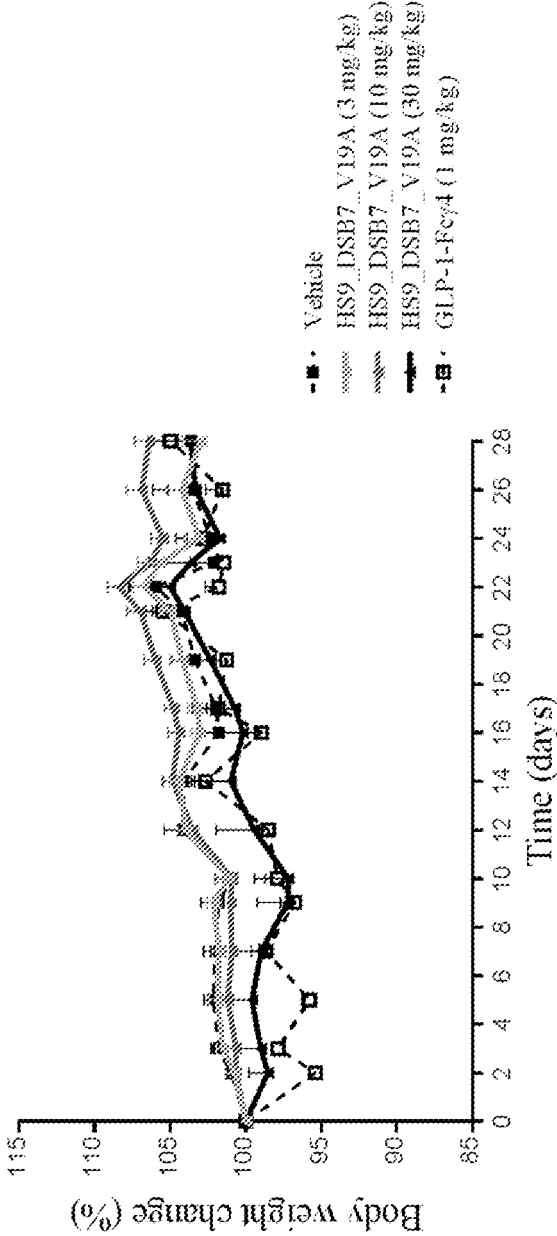


FIG. 45

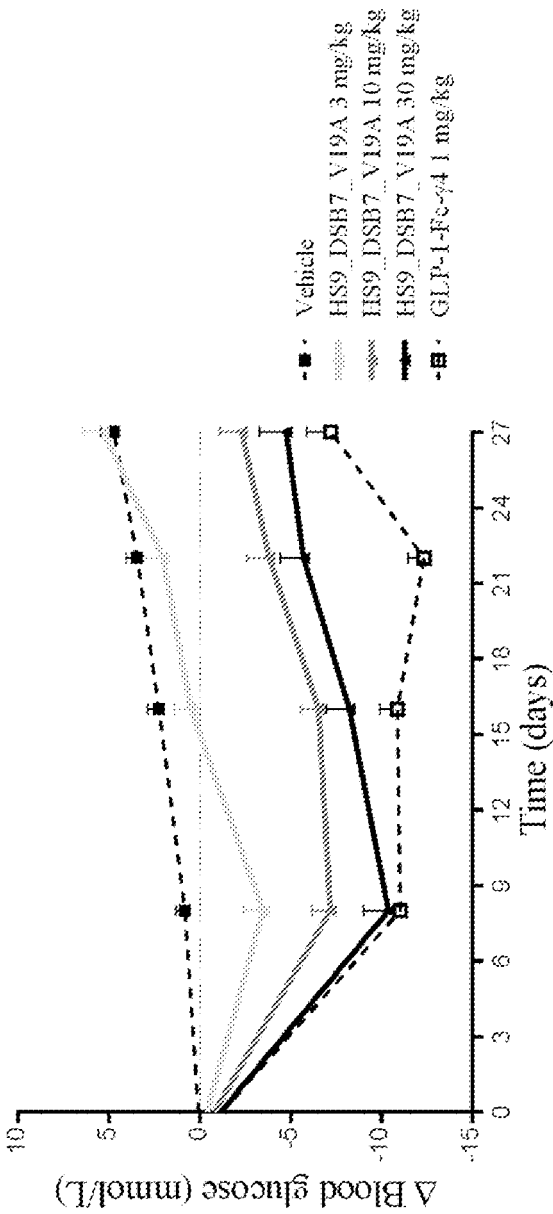


FIG. 46

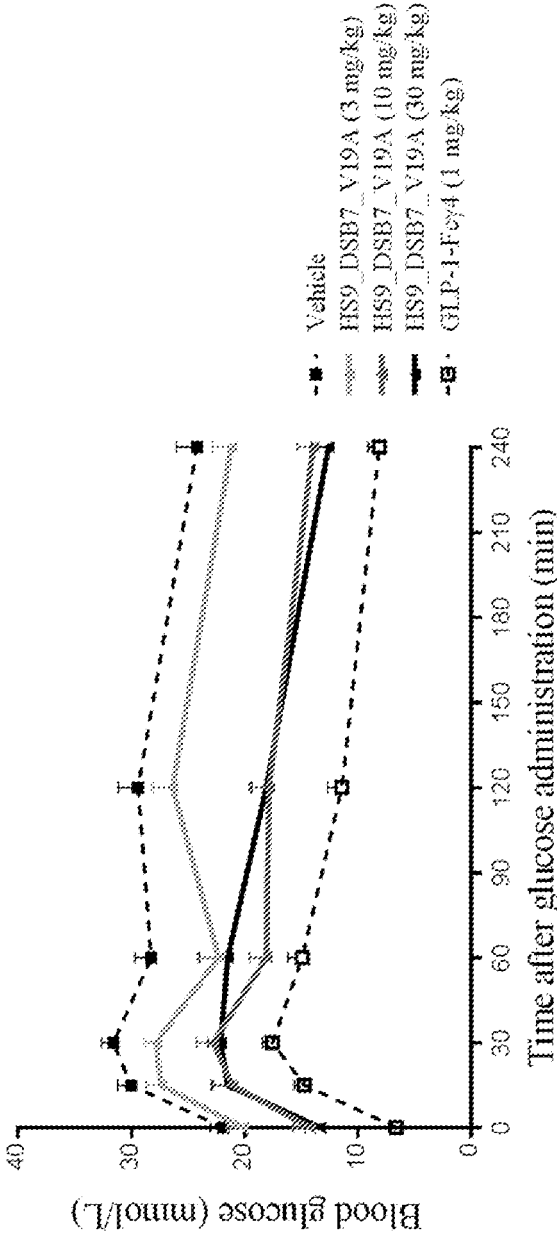


FIG. 47A-B

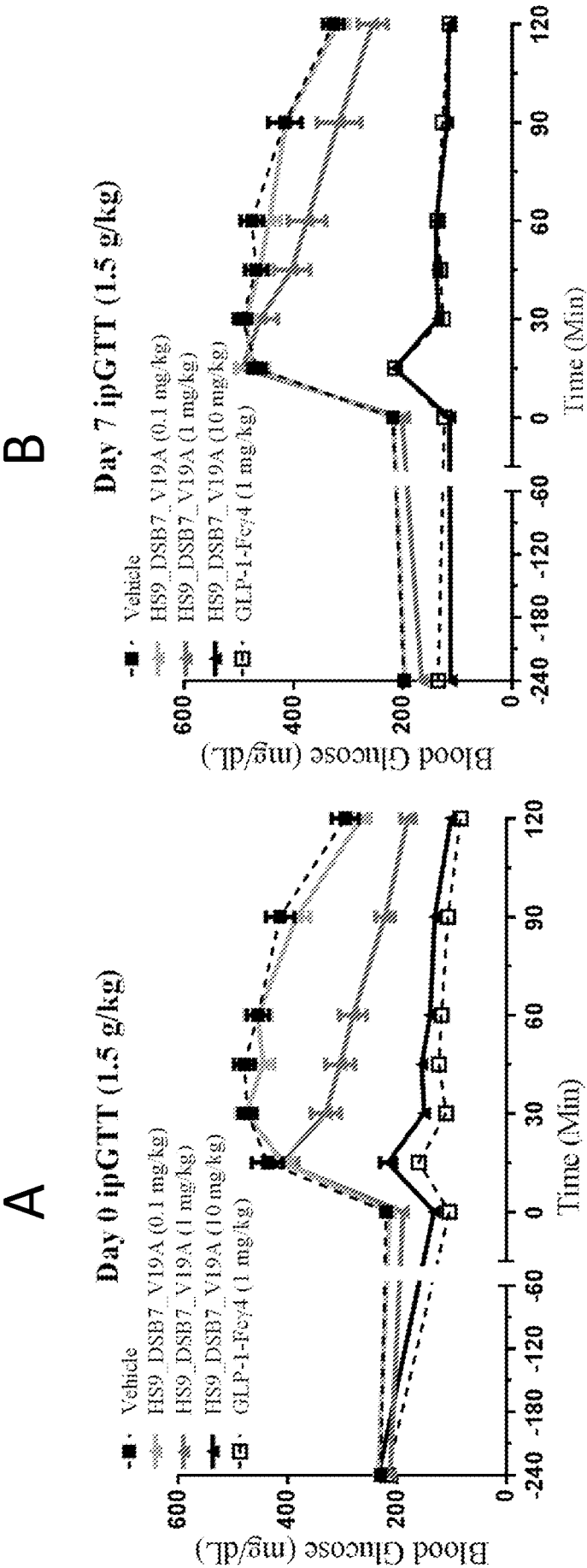
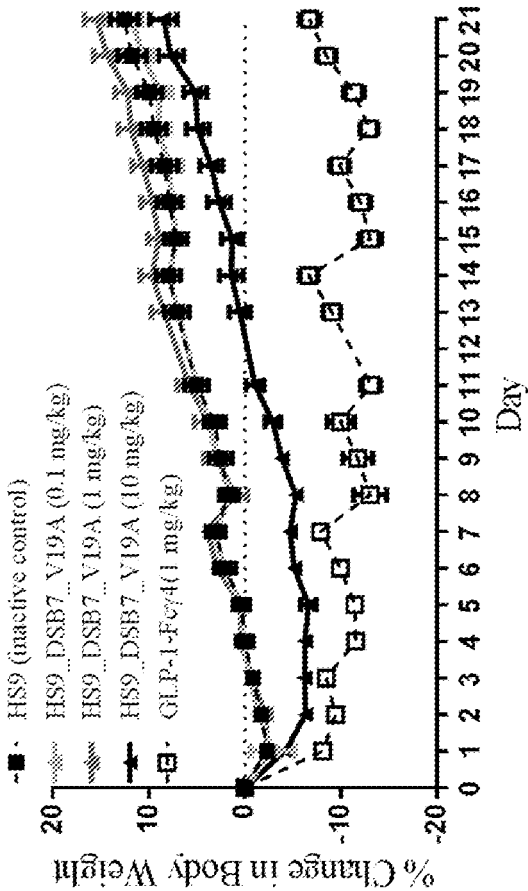


FIG. 48A-B

B



A

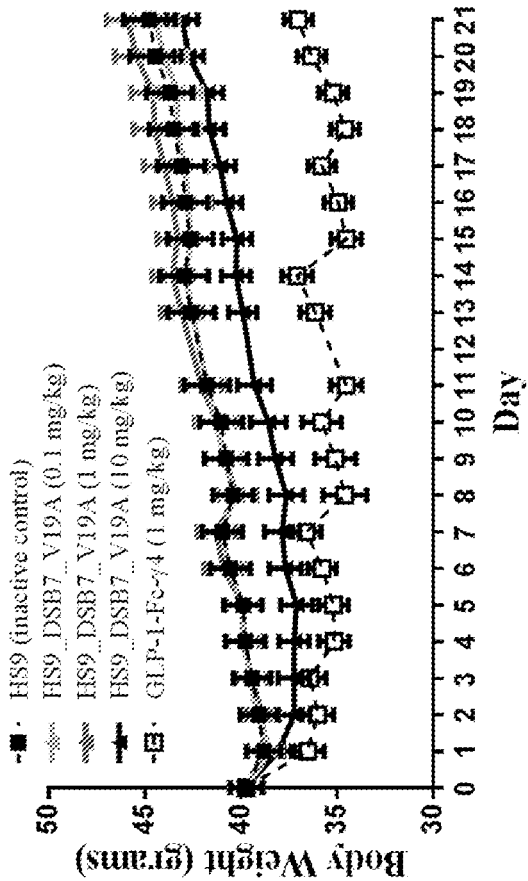


FIG. 49

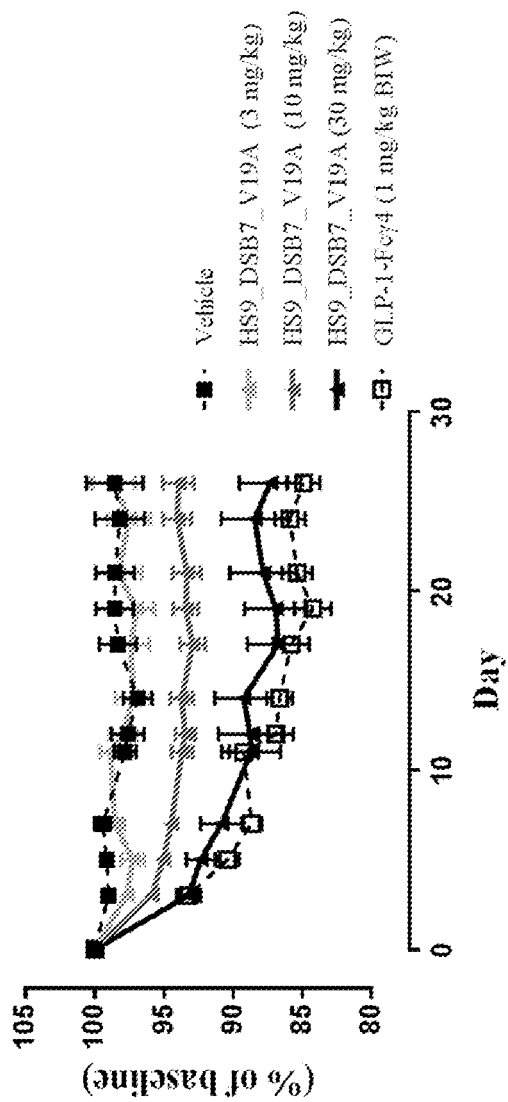


FIG. 50A-B

