

ActRIIa	ILGRSETQEC	LFENANWEKD	RTNQTVGVEPC	YGDKD KRR RHC	FATWKNISGS
ActRIIb	GRGEAETREC	IYNNANWELE	RTNQSGLERC	EGEQDKRLHC	YASWRNSSGT
	IEIVKQGCWL	DDINCYDRID	CVEKKDSPEV	YFCCCEGNMC	NEKFSYFPFM
	IELVKKGCWL	DDENCYDRQE	CVATEENPQV	YFCCCEGNFC	NERFTHLPEA
	EVTQPTSNPV	TPKPPT	(SEQ ID NO: 2)		
	GGPEVTYEPP	PTAPT	(SEQ ID NO: 31)		

FIGURE 1


```

IgG1  -----THTCPPCPAPELLGGPSVFLFPPFKPKDTLMISRTPEVTCVVVDVSHEDPEVKF  53
IgG4  -----ESKYGFPCPSCPAPEFLGGPSVFLFPPFKPKDTLMISRTPEVTCVVVDVSHEDPEVQF  57
IgG2  -----VECPPCFAPPVAG--PSVFLFPPFKPKDTLMISRTPEVTCVVVDVSHEDPEVQF  51
IgG3  EPKSCDTFPPCPKCPAPELLGGPSVFLFPPFKPKDTLMISRTPEVTCVVVDVSHEDPEVQF  60
      ** **** . * *****;*****;*

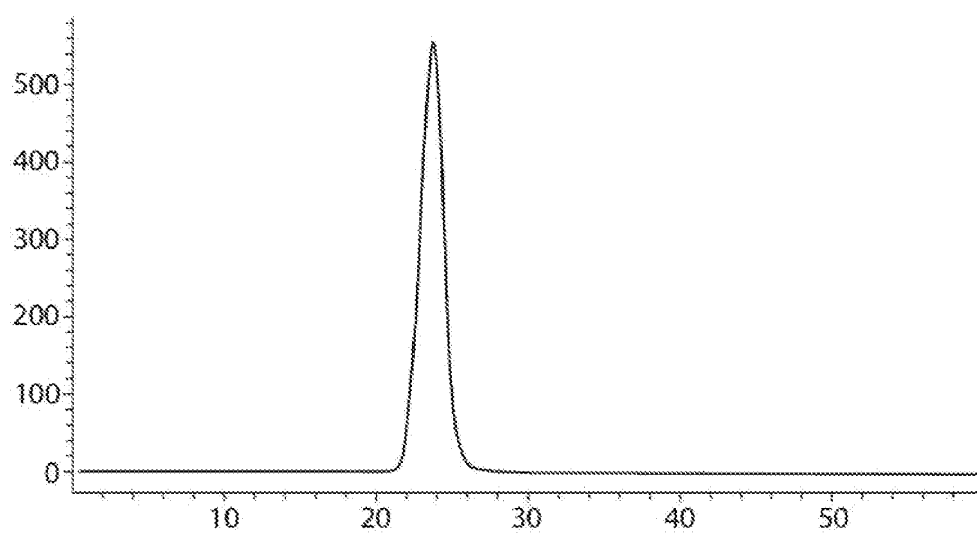
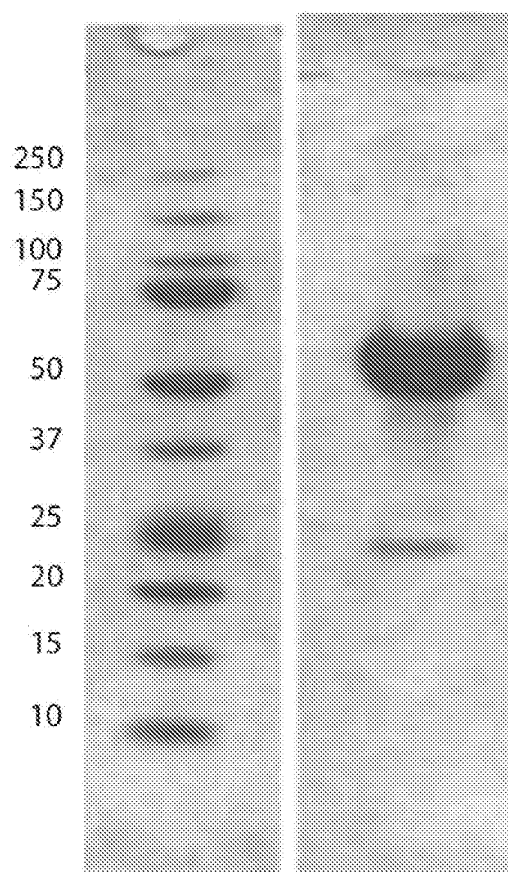
IgG1  NNYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT  113
IgG4  NNYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKT  117
IgG2  NNYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKT  111
IgG3  KNYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT  120
      ;*****;***;*****;*****.***;****

IgG1  ISKAKGQPREPQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP  173
IgG4  ISKAKGQPREPQVYTLPPSQREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP  177
IgG2  ISKTKGQPREPQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP  171
IgG3  ISKTKGQPREPQVYTLPPSRREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTP  180
      ***;*****;*****.*****;***

IgG1  PVLDSGGSFFLYSKLTVDKSRWQQGNVFSQSVMHREALNNHTQKSLSLSPGK  225  (SEQ ID NO: 32)
IgG4  PVLDSGGSFFLYSKLTVDKSRWQEGNVFSQSVMHREALNNHTQKSLSLSLGK  229  (SEQ ID NO: 35)
IgG2  PMLDSGGSFFLYSKLTVDKSRWQQGNVFSQSVMHREALNNHTQKSLSLSPGK  223  (SEQ ID NO: 33)
IgG3  PMLDSGGSFFLYSKLTVDKSRWQQGNIFSCSVMHREALNNRFTQKSLSLSPGK  222  (SEQ ID NO: 34)
      *;*****;*****;***;*****;***** **

```

Figure 3

A.**B.****FIGURE 4**

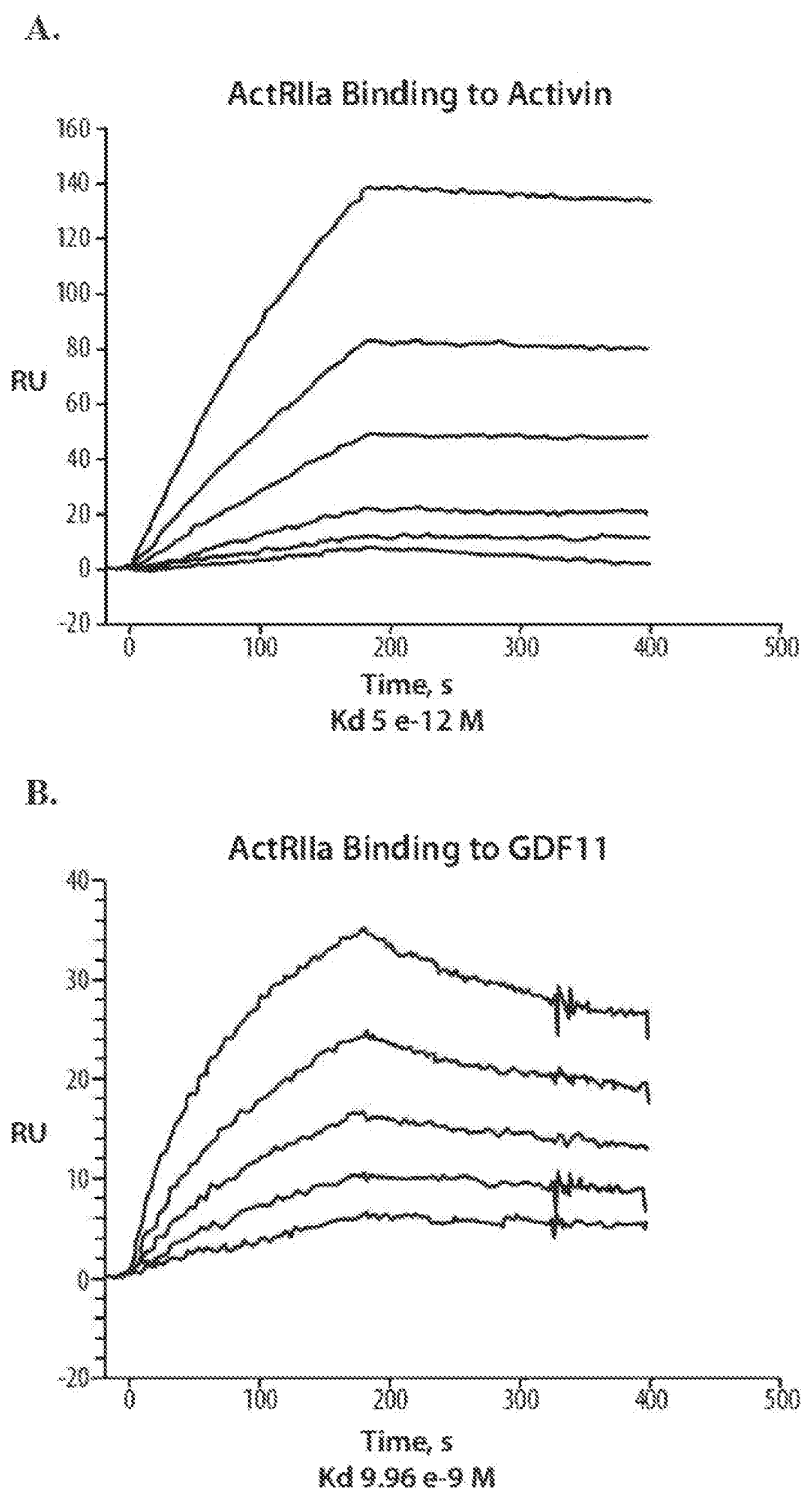
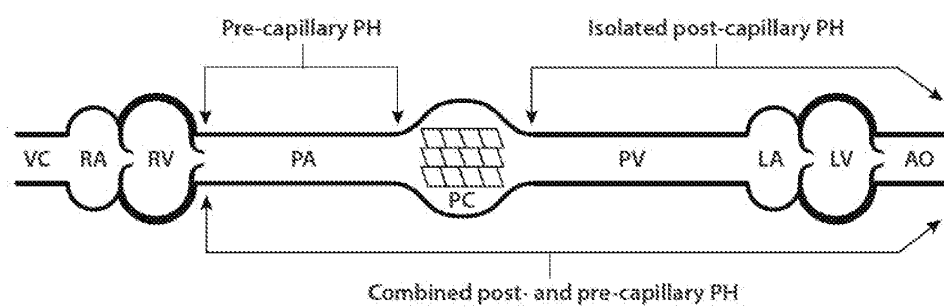
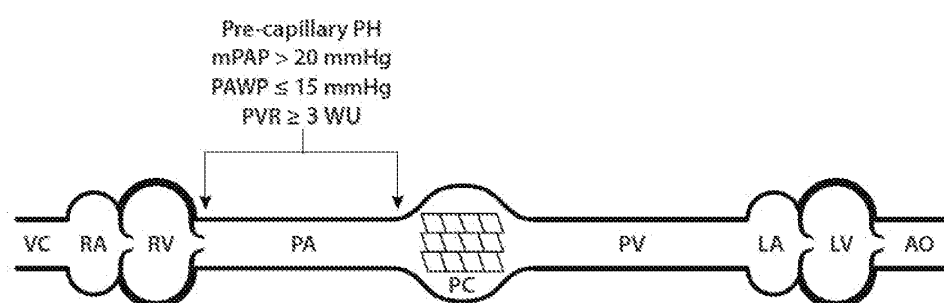
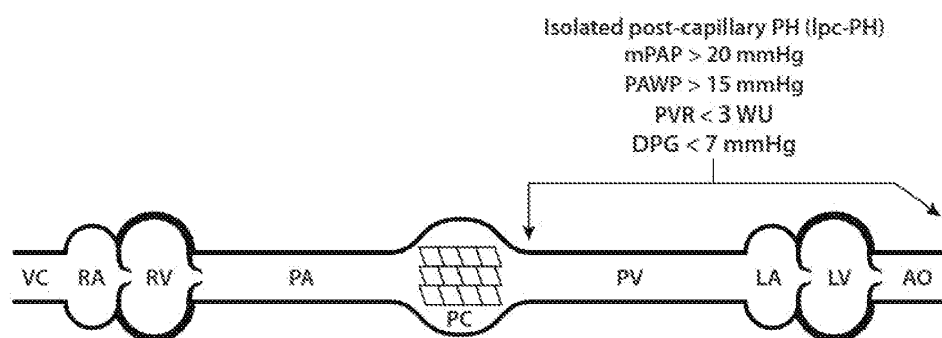
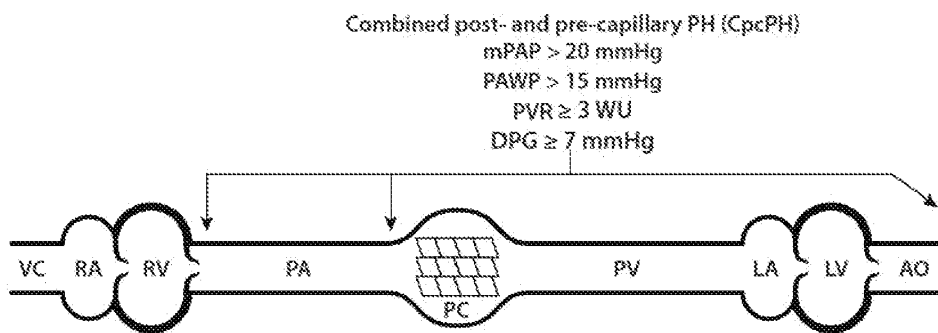


FIGURE 5

**Figure 6**

**Figure 7**

**Figure 8**

**Figure 9**

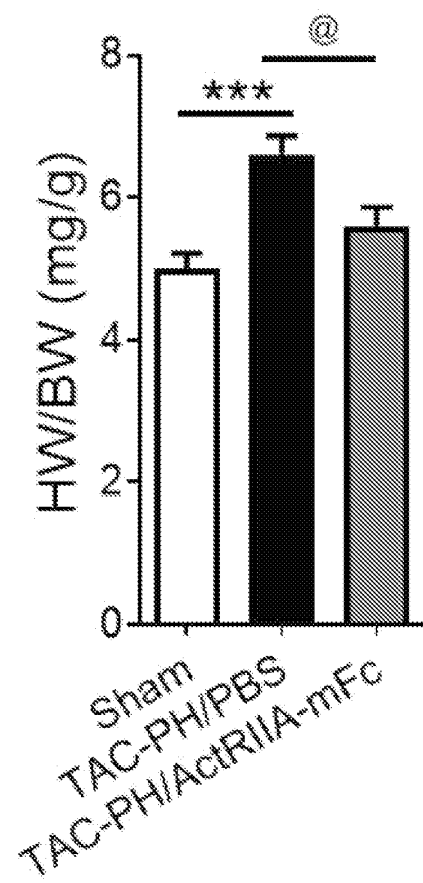
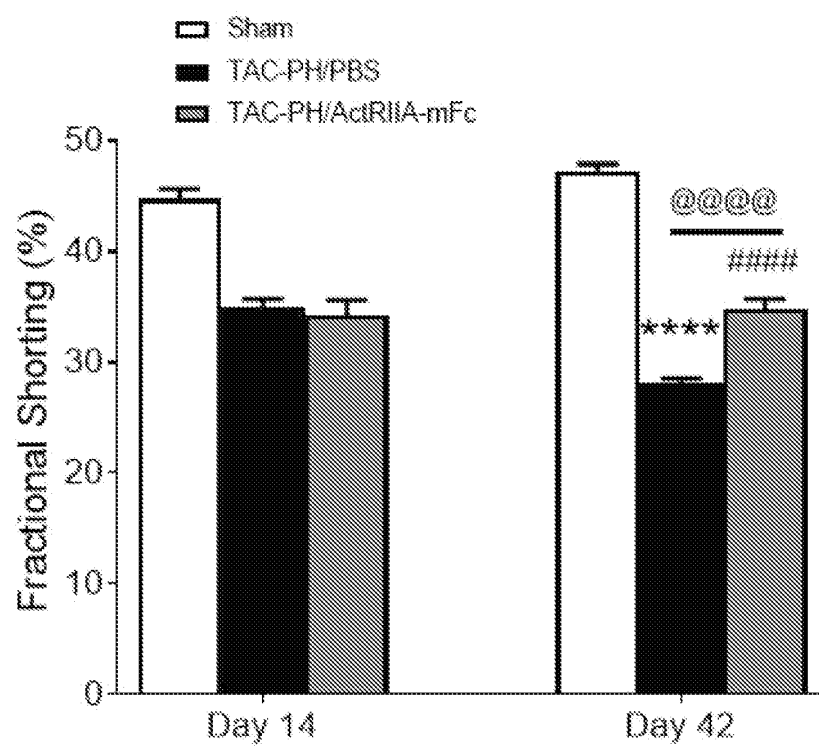
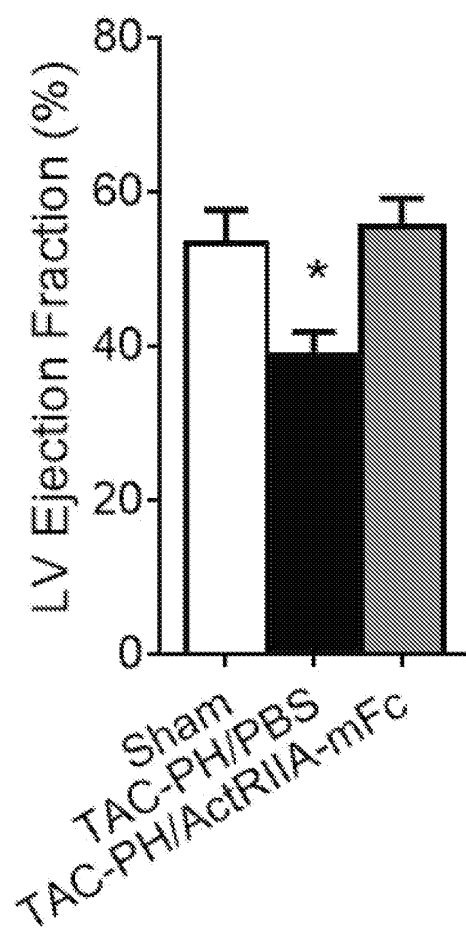
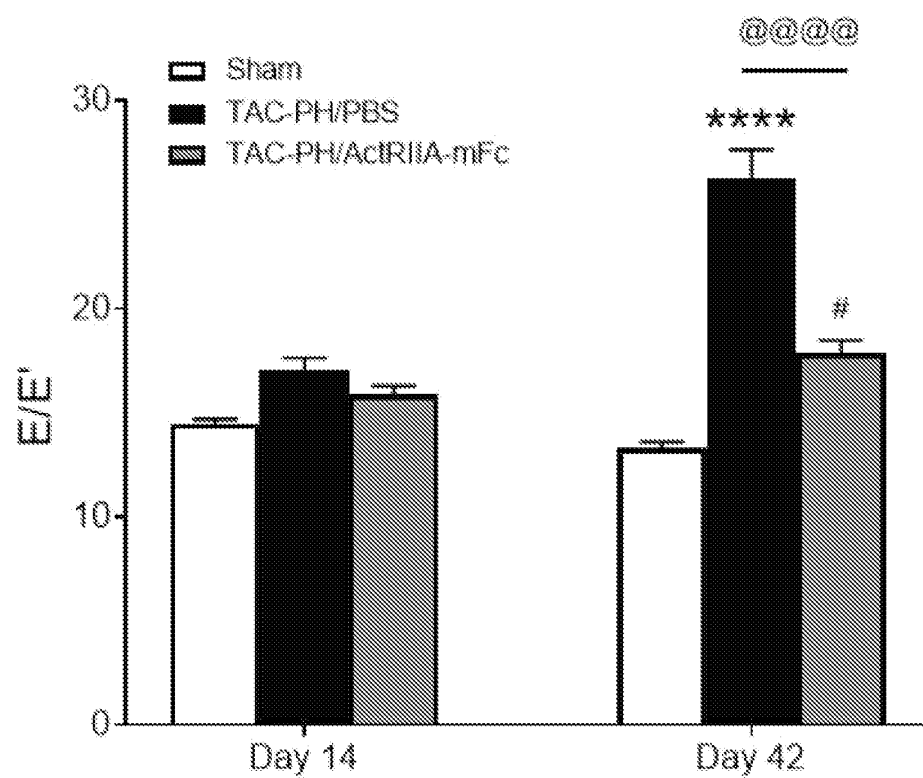


Figure 10

**Figure 11**

**Figure 12**

**Figure 13**

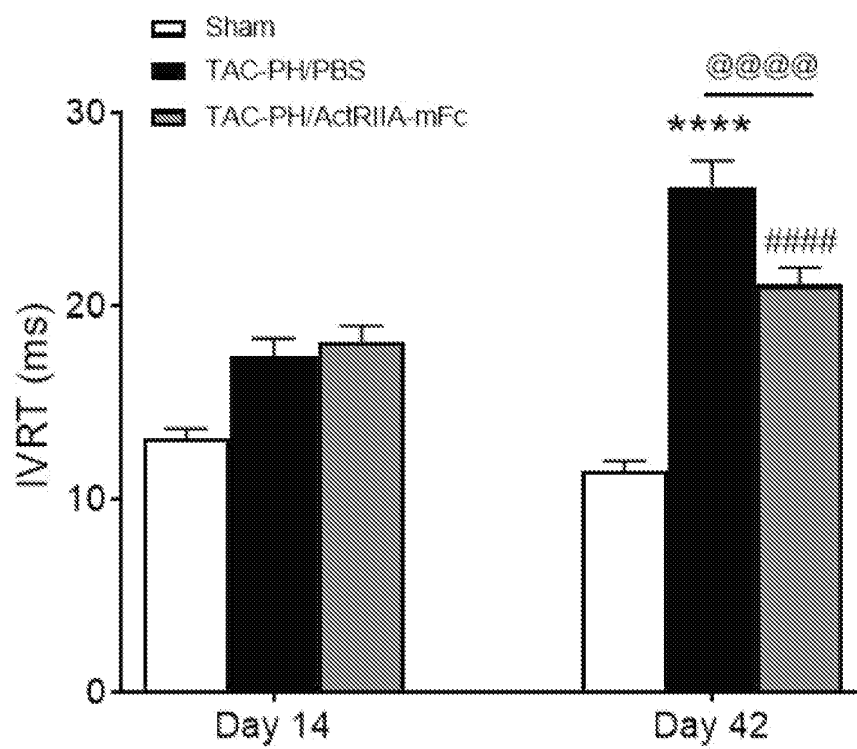
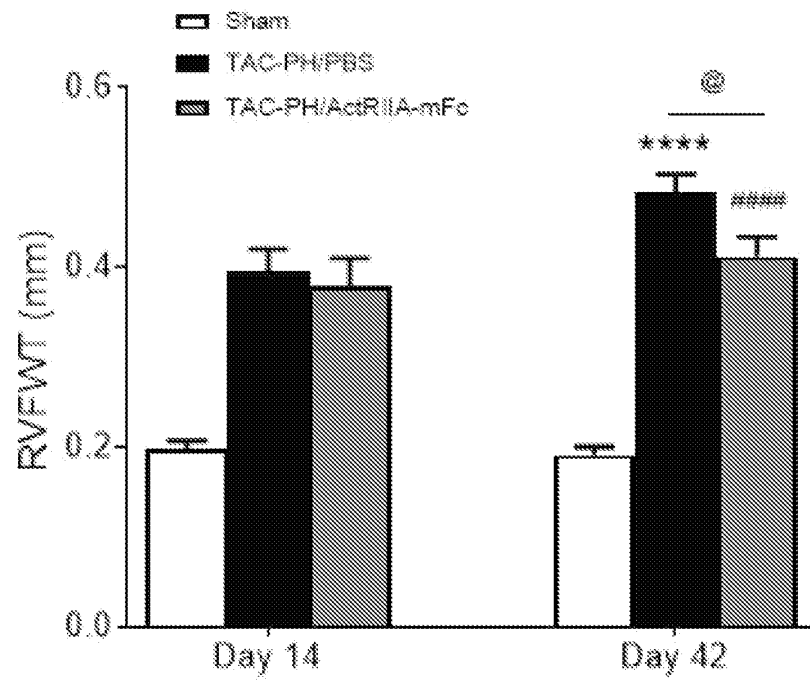
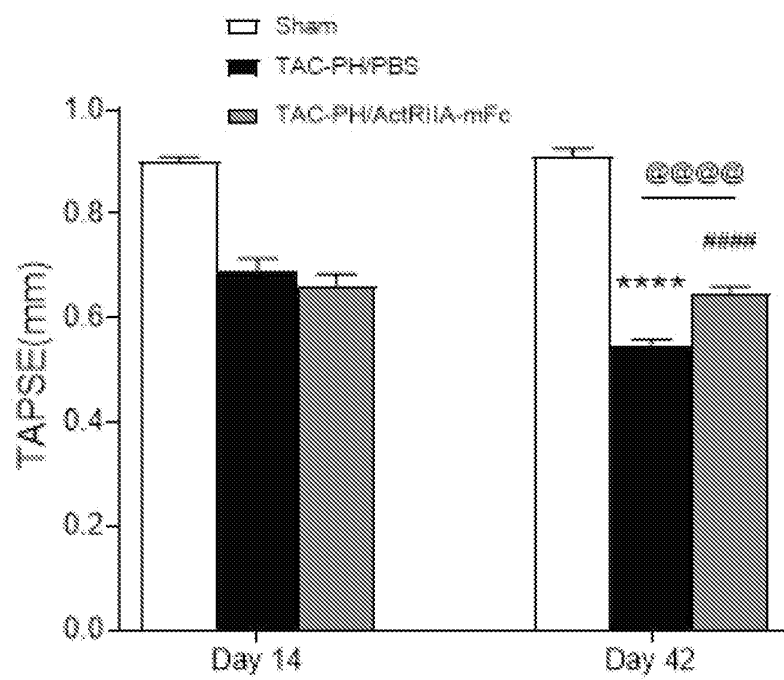
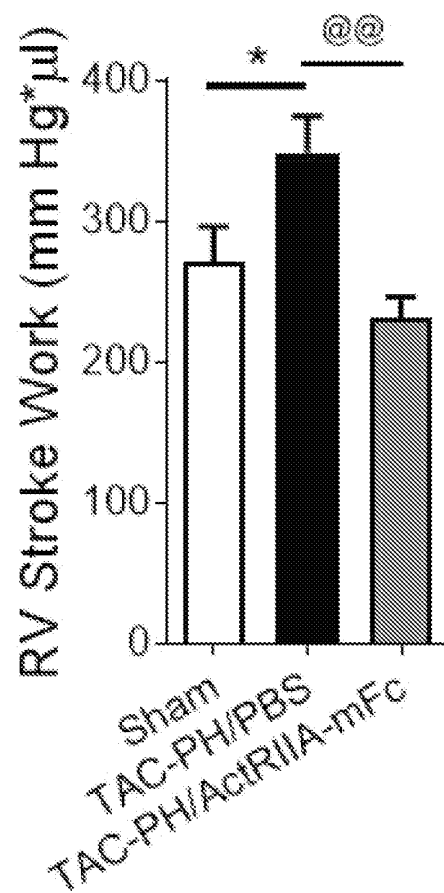
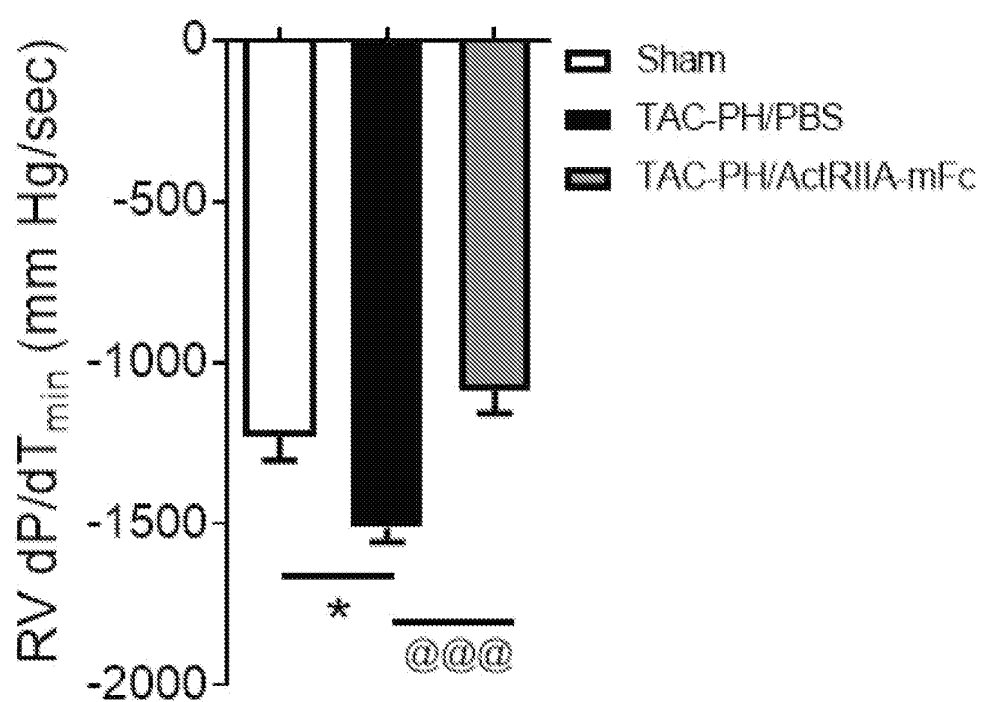


Figure 14

**Figure 15**

**Figure 16**

**Figure 17**

**Figure 18**

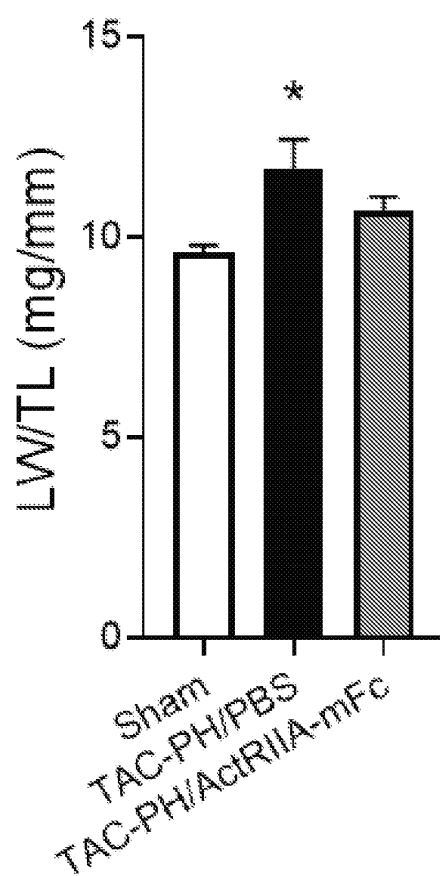


Figure 19

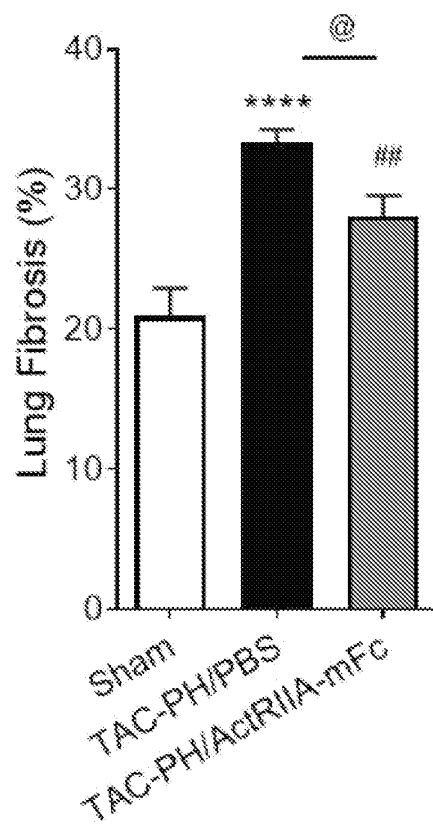
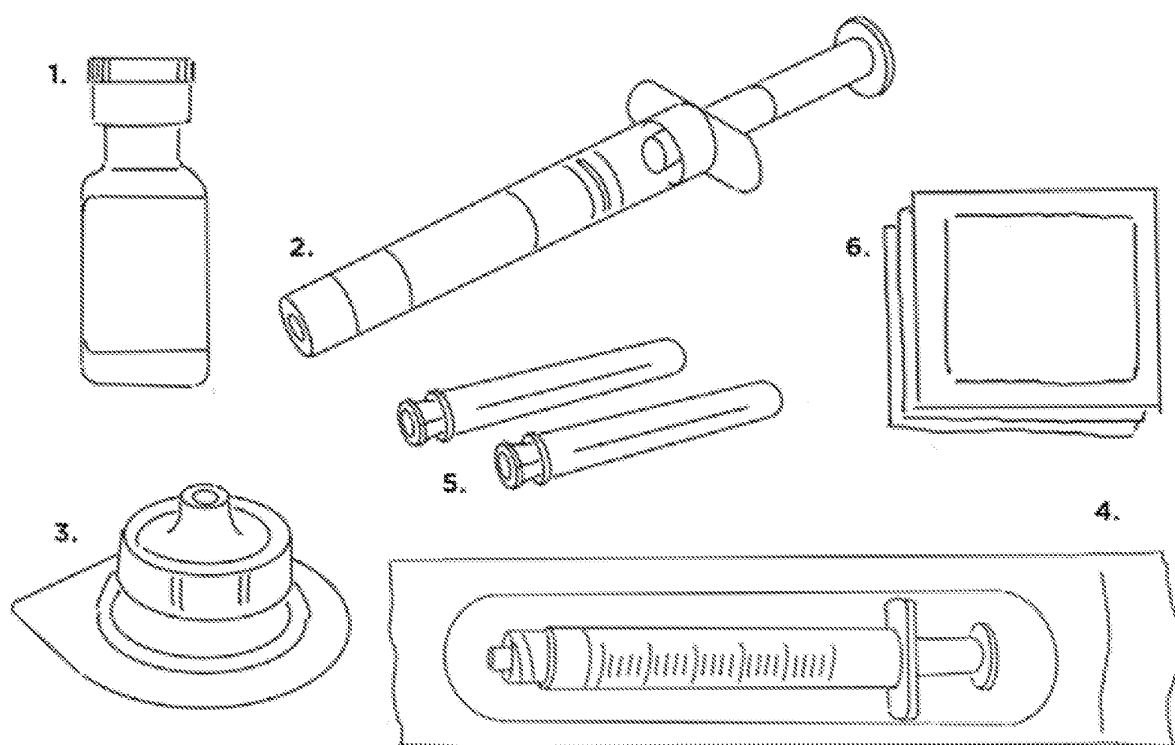


Figure 20

**Figure 21**

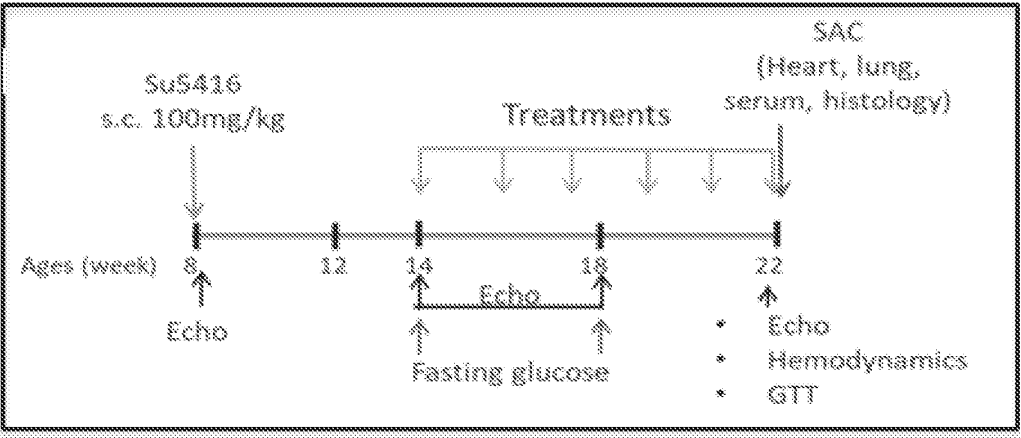


Figure 22

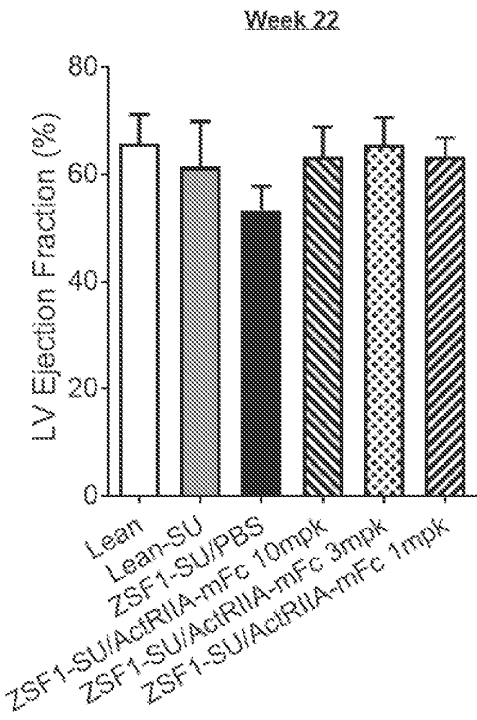
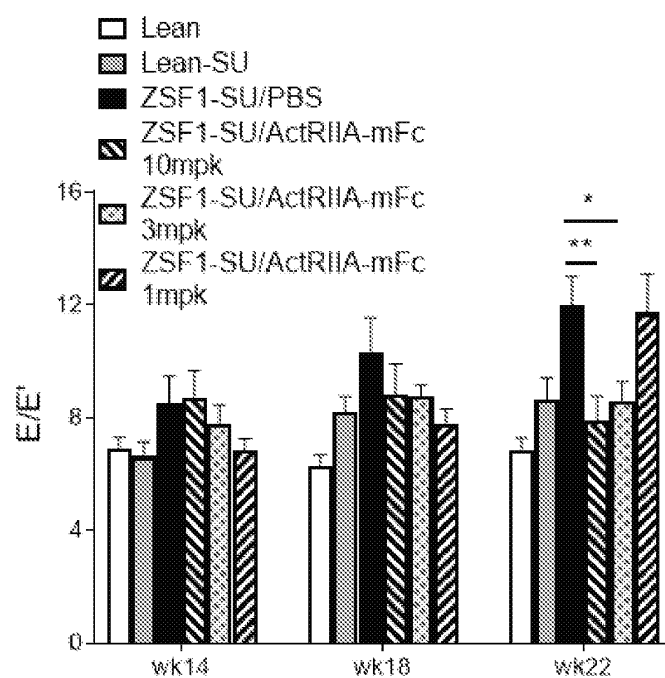
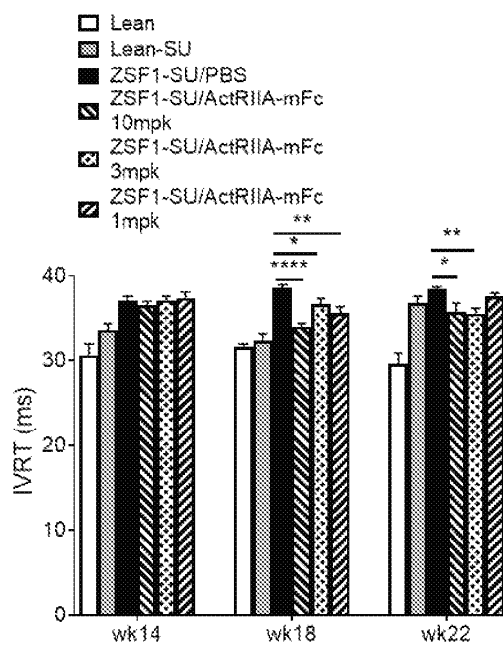


Figure 23

**Figure 24****Figure 25**

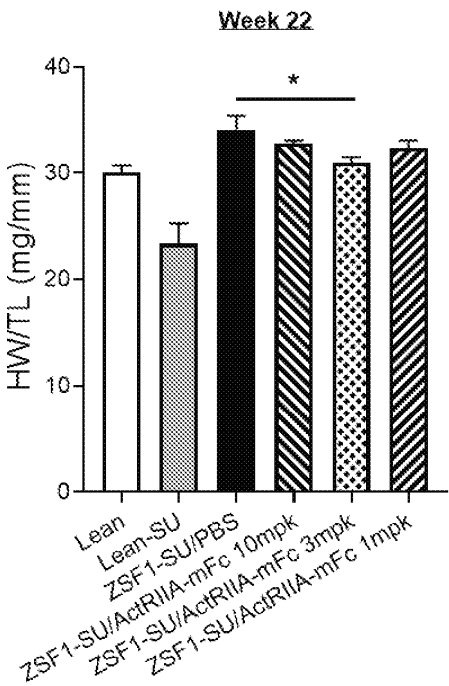


Figure 26

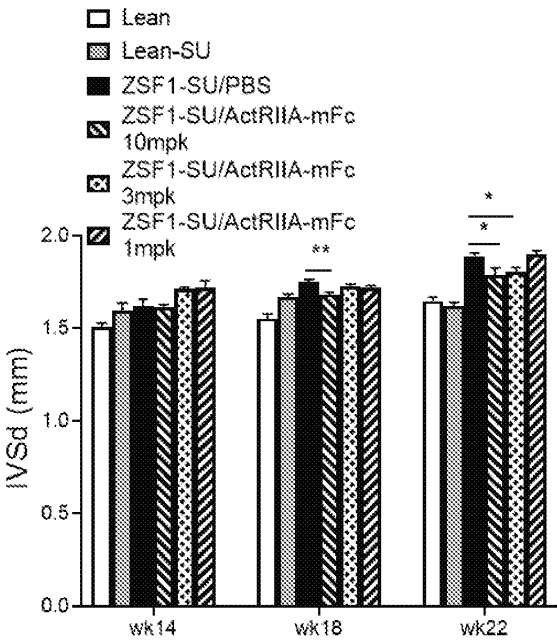


Figure 27

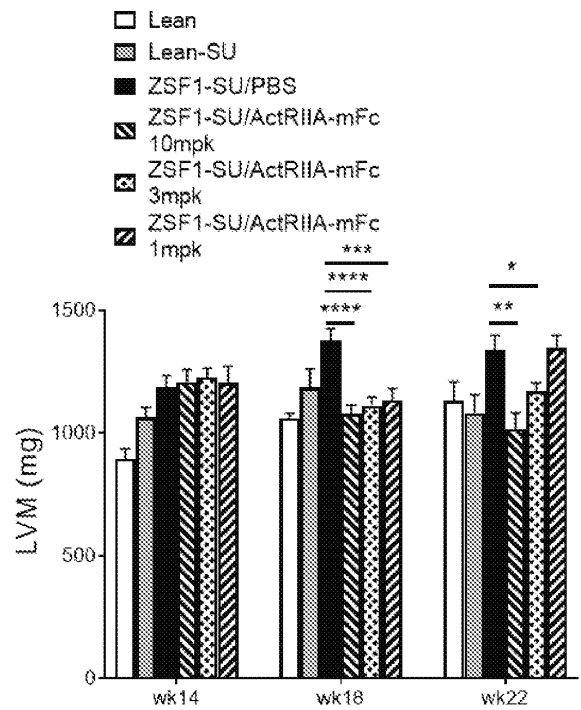


Figure 28

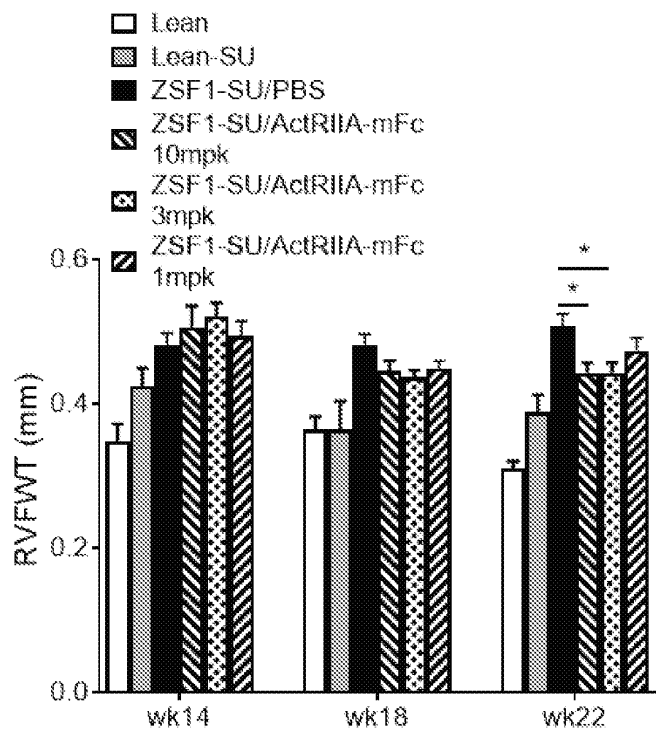
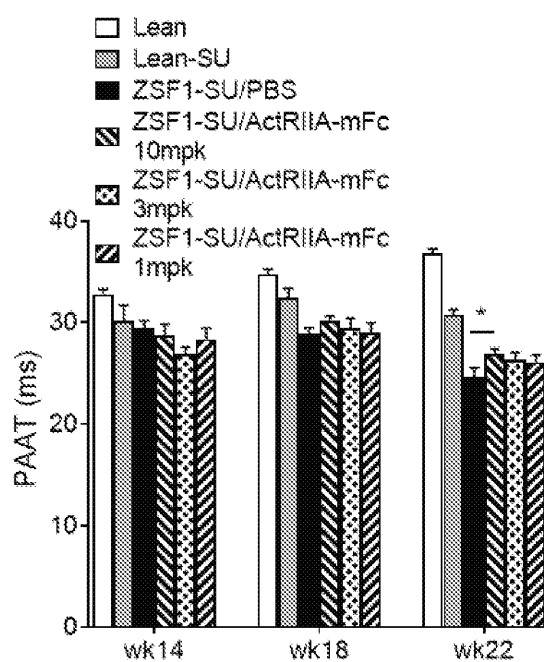
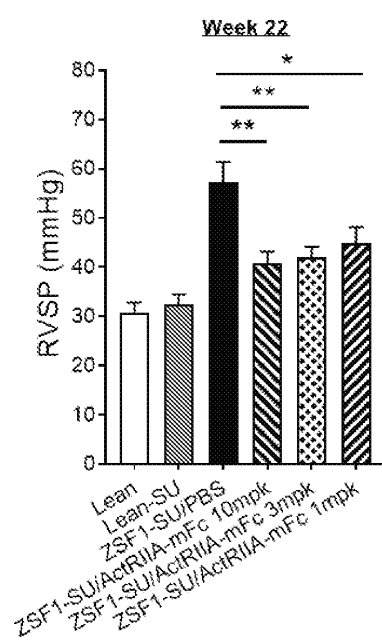


Figure 29

**Figure 30****Figure 31**

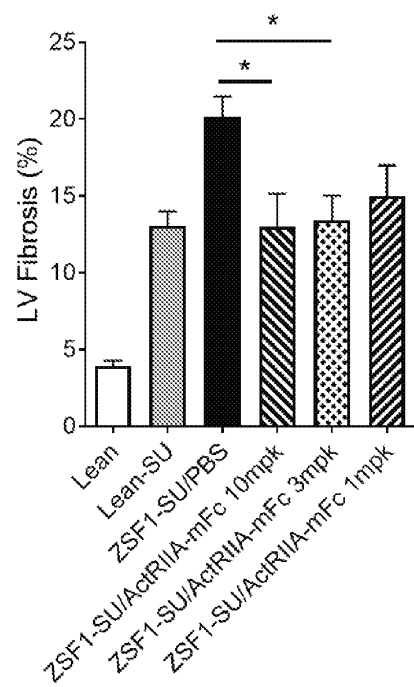


Figure 32

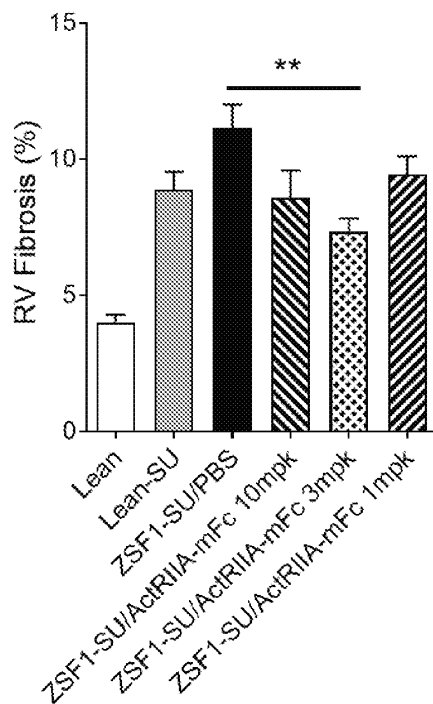
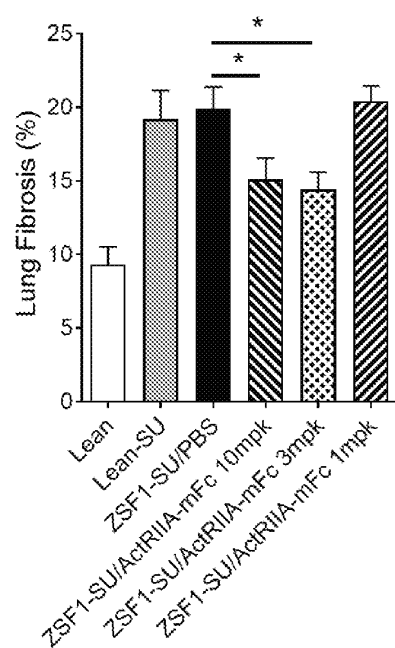
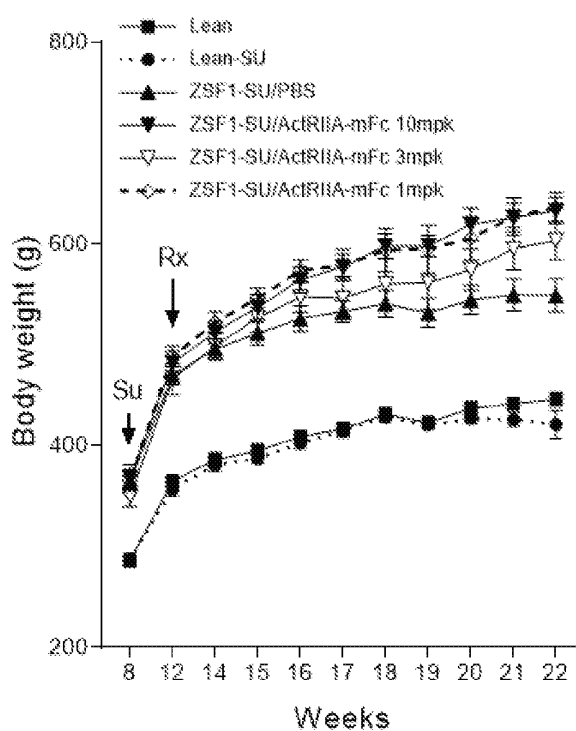


Figure 33

**Figure 34****Figure 35**

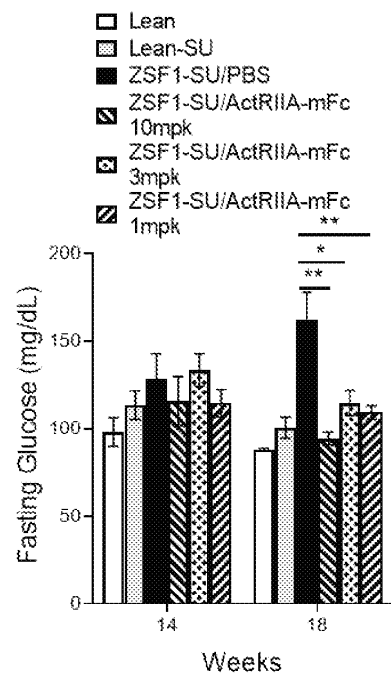


Figure 36

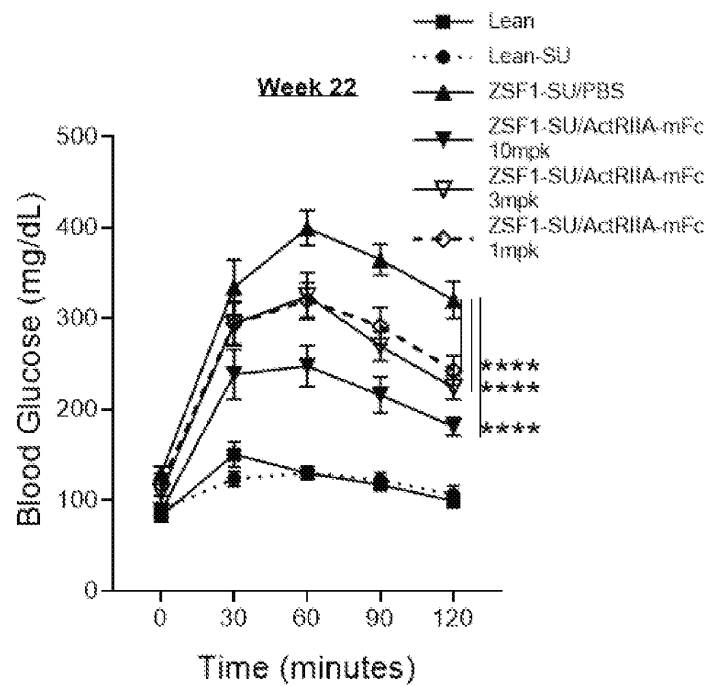
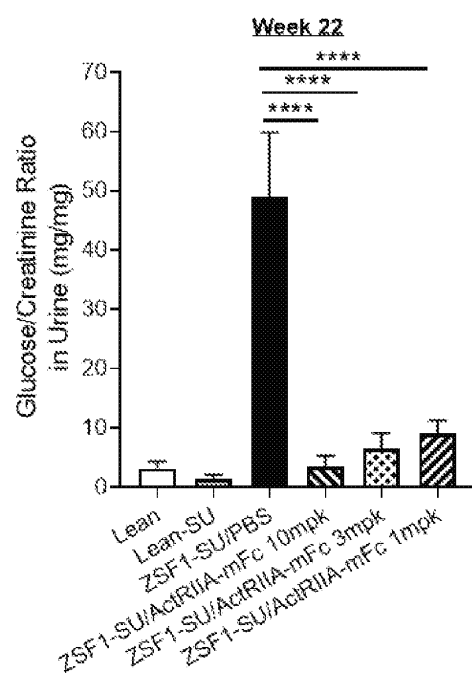
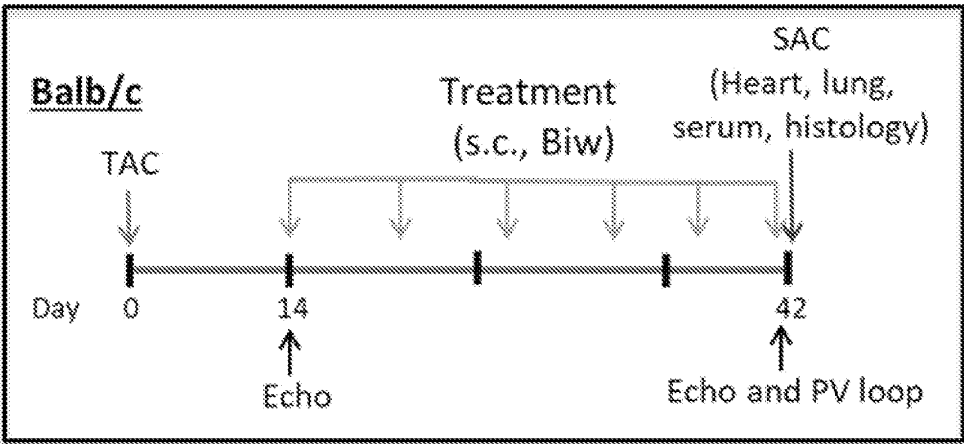


Figure 37

**Figure 38**



Rx: ActRIIA-mFc s.c., 3 and 10mpk, BIW

Figure 39

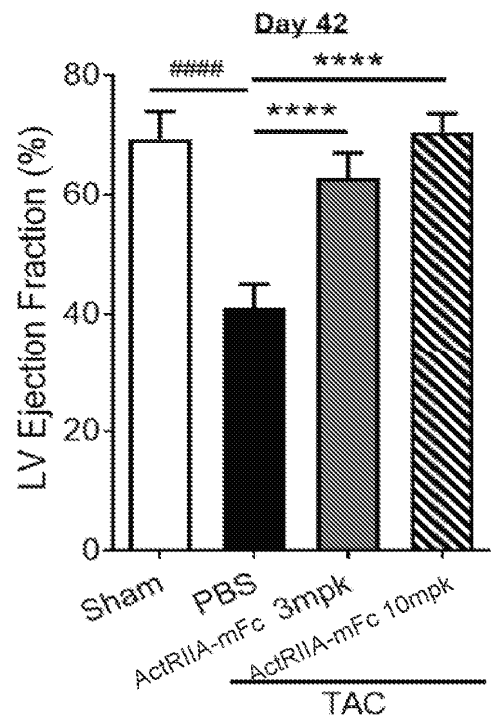
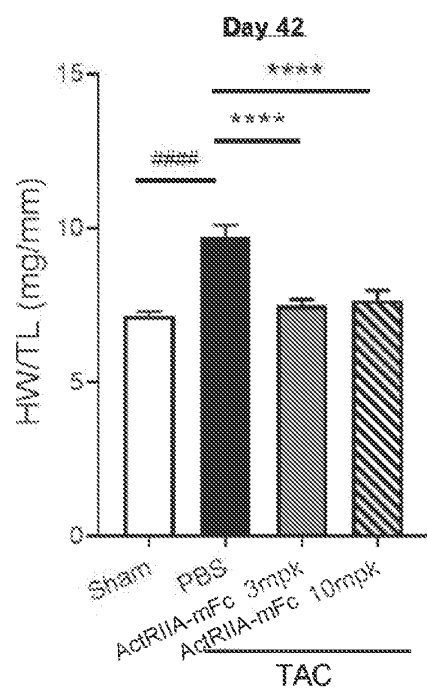
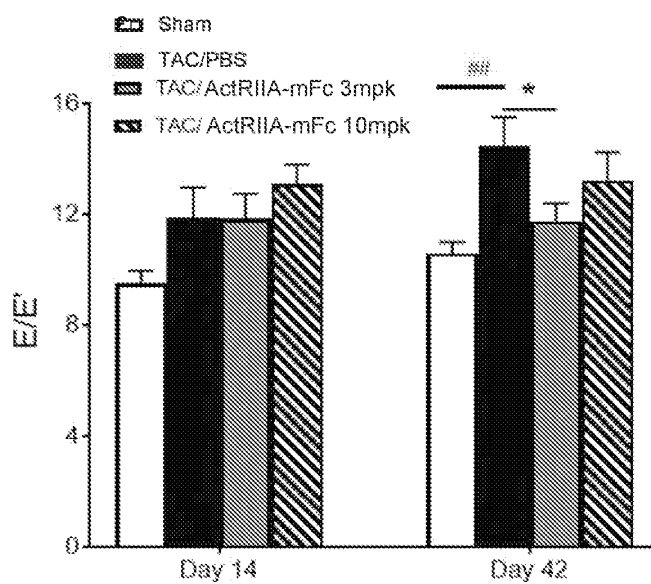
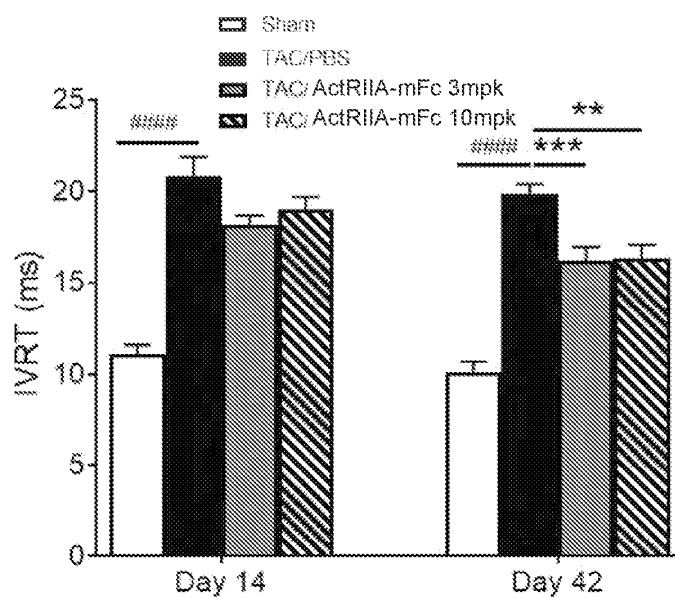
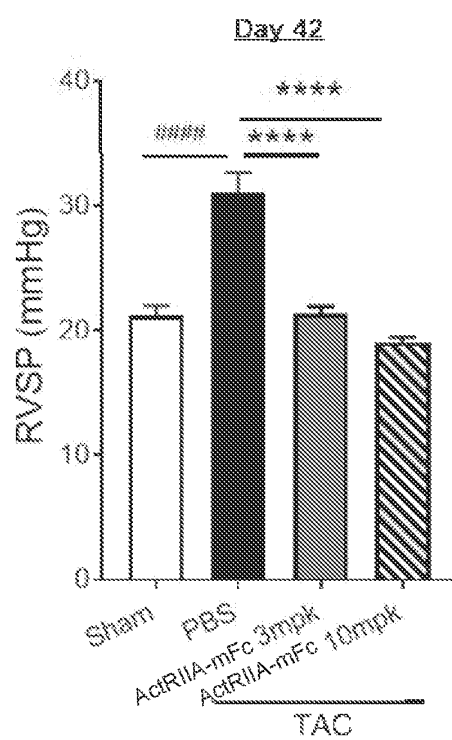


Figure 40

**Figure 41****Figure 42**

**Figure 43****Figure 44**

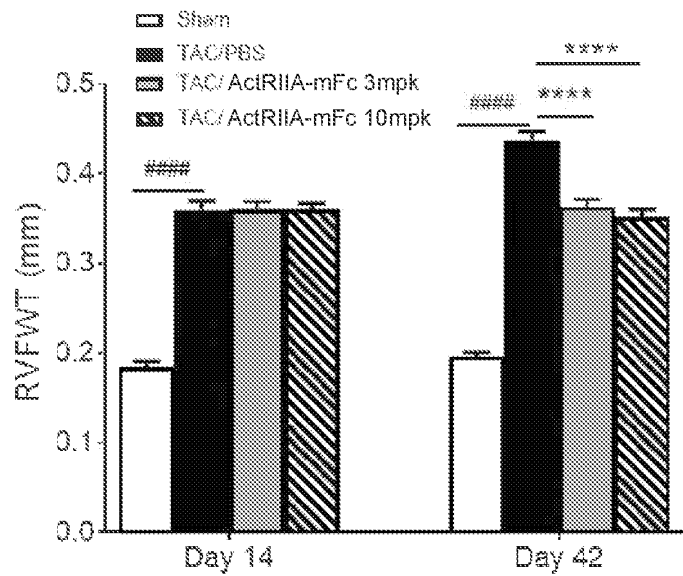


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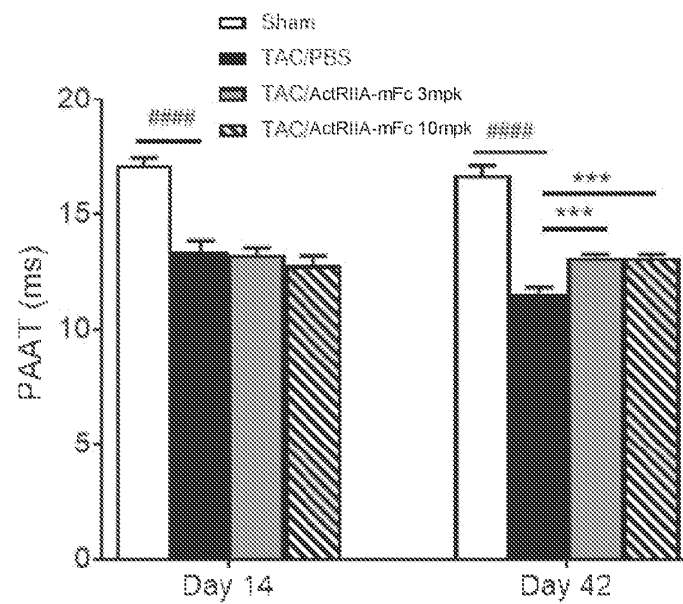


Figure 46

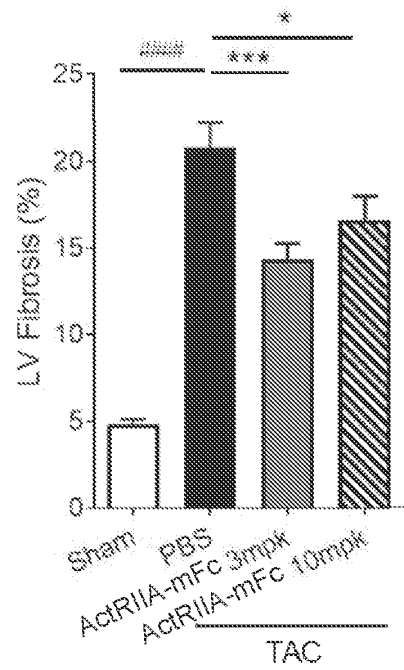


Figure 47

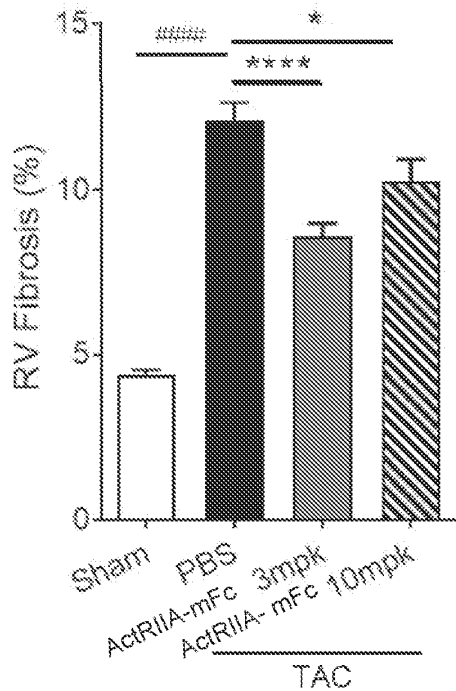


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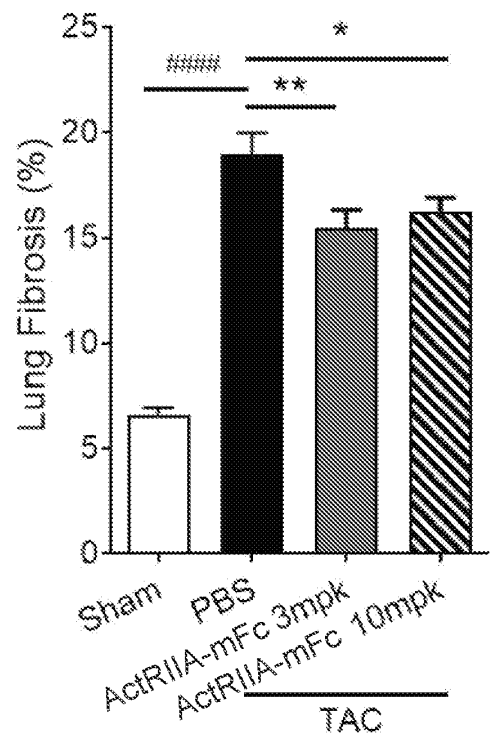


Figure 49

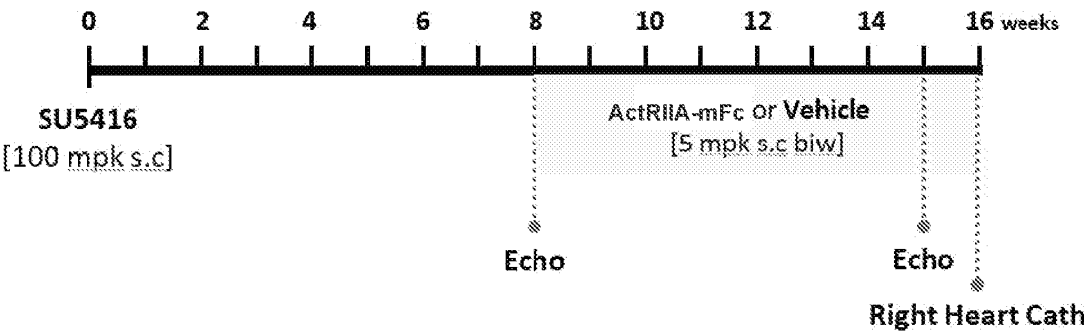


Figure 50

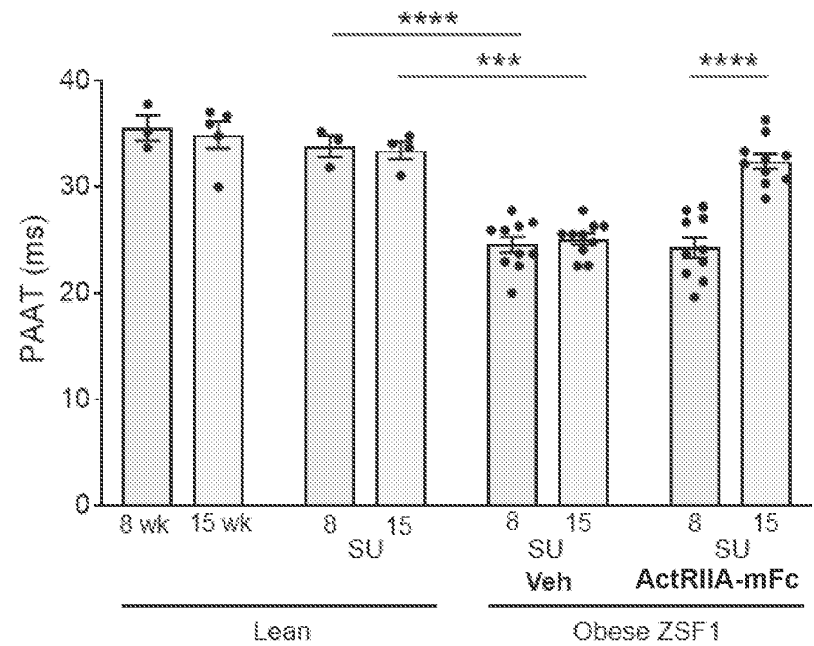


Figure 51

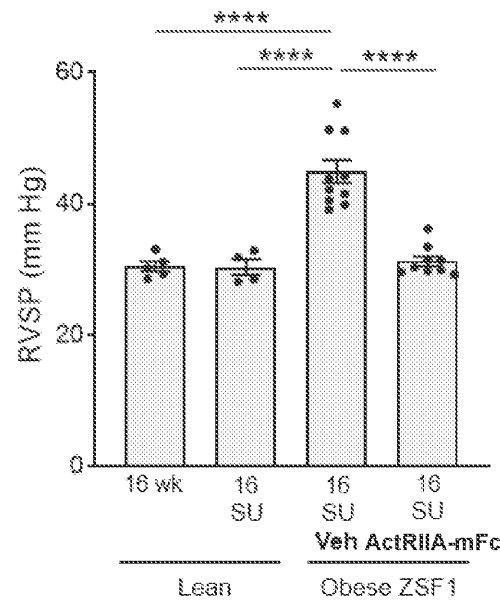


Figure 52

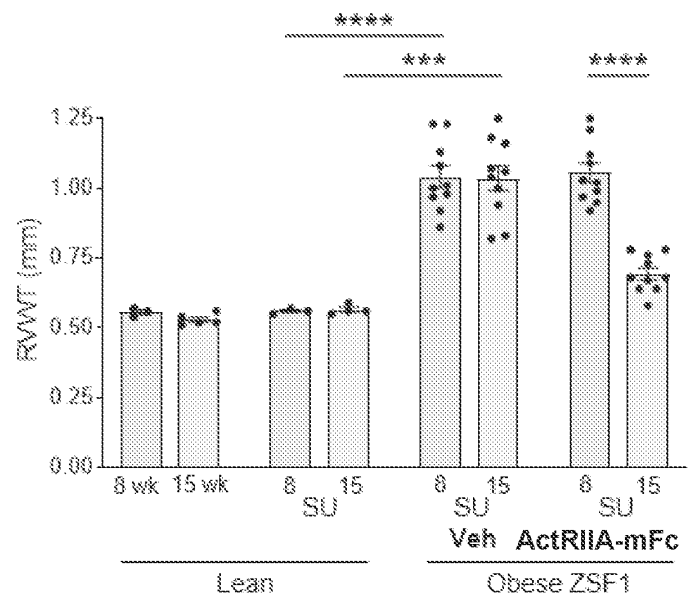


Figure 53

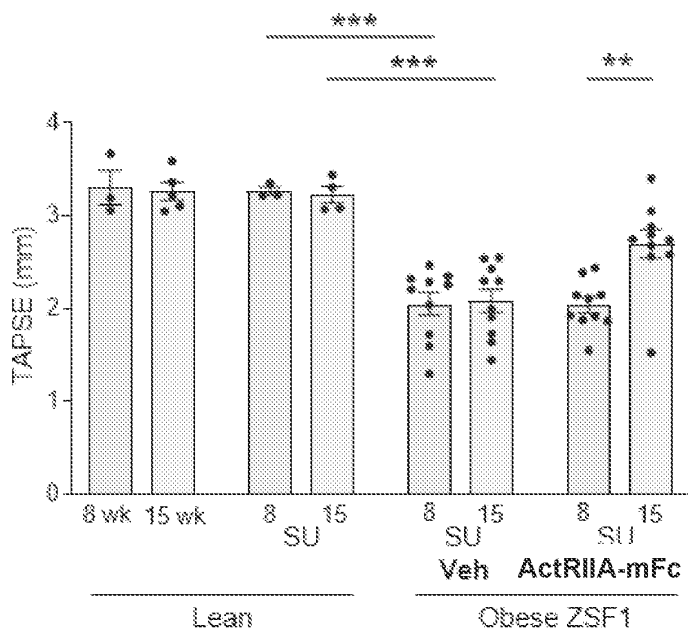


Figure 54

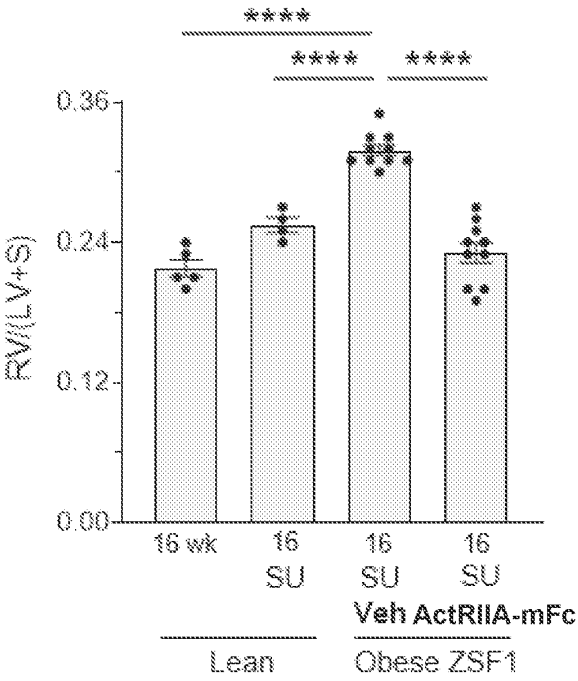


Figure 55