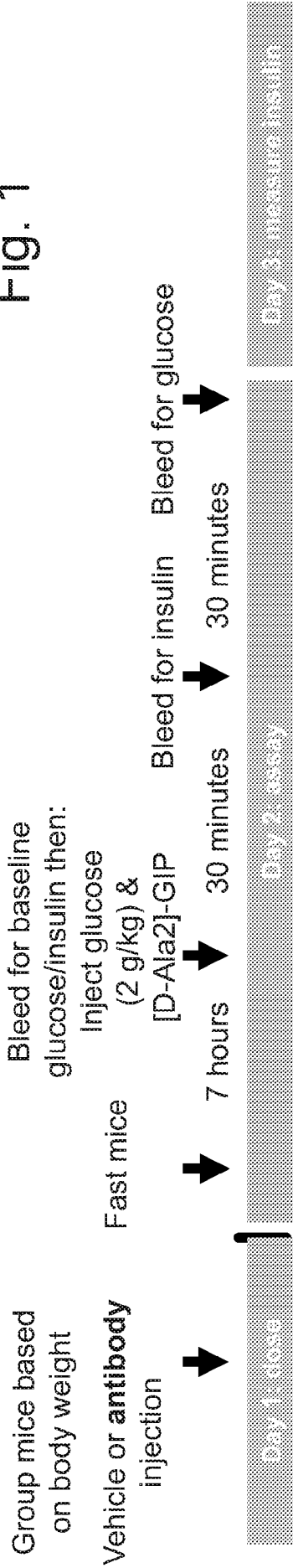


Mouse Pharmacodynamic Assay To Test GIPR Antibodies

- Study Design

- Mice: Diet-induced obese C57BL/6 from Jackson Labs, 18 weeks of age
- Assay: To test GIPR antibody on inhibition of insulin secretion induced by exogenous GIP ([D-Ala2]-GIP) and glucose
- Readout
 - Insulin (T = 0, 30 min from [D-Ala2]-GIP and glucose dose)
 - Glucose (T = 0, 60 min from [D-Ala2]-GIP and glucose dose)
- Study groups
 - Negative control: Vehicle, [D-Ala2]-GIP (50 nmol/kg)
 - Antibody 2.63.1 at 25, 5, 1, 0.2, 0.04 mg/kg
 - Positive control: Vehicle, no [D-Ala2]-GIP

Fig. 1



GIPR Antibody 2.63.1 Antagonized GIP Induced Insulin Secretion

Secretion

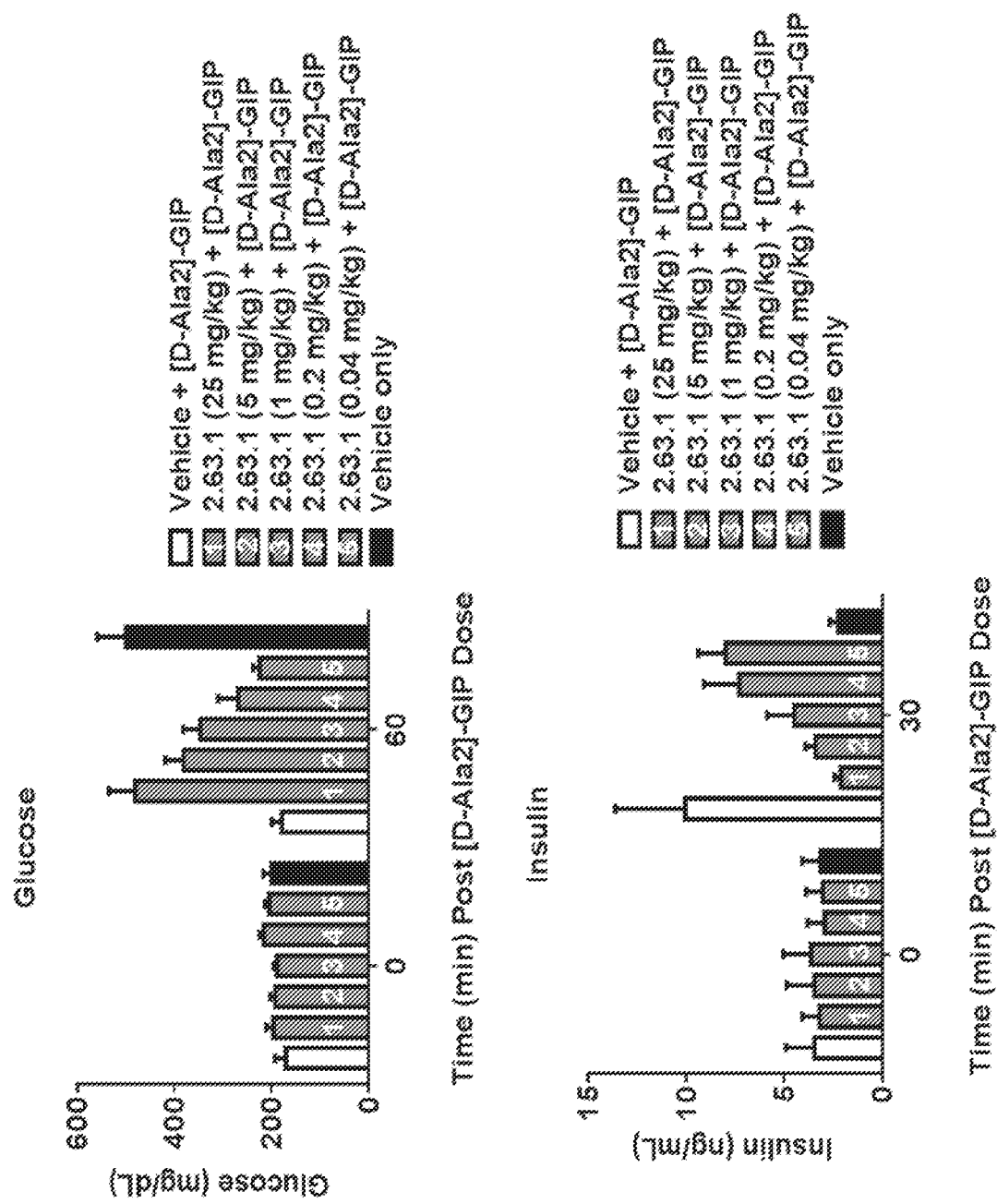
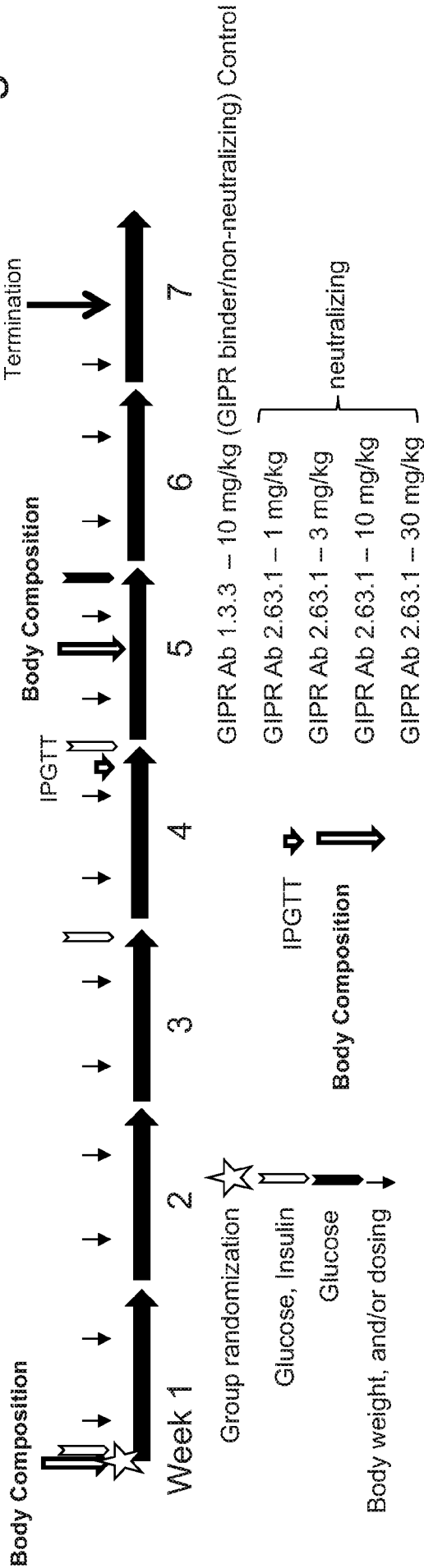


Fig. 2

Chronic Treatment Of Diet Induced Obese Mice With GIPR Antibody 2.63.1 - Study Design

- Male C57BL6 Diet-Induced Obese mice (Jackson Lab), 18 weeks old at start (on high fat diet for 12 weeks)
- Mice were randomized based on body weight, glucose and insulin (10 AM, fast for 4 hours)
- Mice were dosed twice a week for 6 weeks
- Body weights weekly; fasting glucose measured at study start and week 3, week 4, week 5
- Blood collected at study start and week 3. Terminal blood collected for measurement of insulin, total cholesterol, and triglycerides.
- Intraperitoneal glucose tolerance test (IPGTT) was performed at week 4 with 4 hour fast with 1 g/kg of glucose
- Body composition analysis of fat/lean mass was measured at beginning of the study and week 4.5
- At week 6.5, study was terminated.
 - Terminal blood
 - Liver and epididymal white adipose tissue (EpiWAT) weight
 - Collected liver and EpiWAT for pathology

Fig. 3



GIPR Antibody 2.63.1 Results In Reduced Body Weight Gain

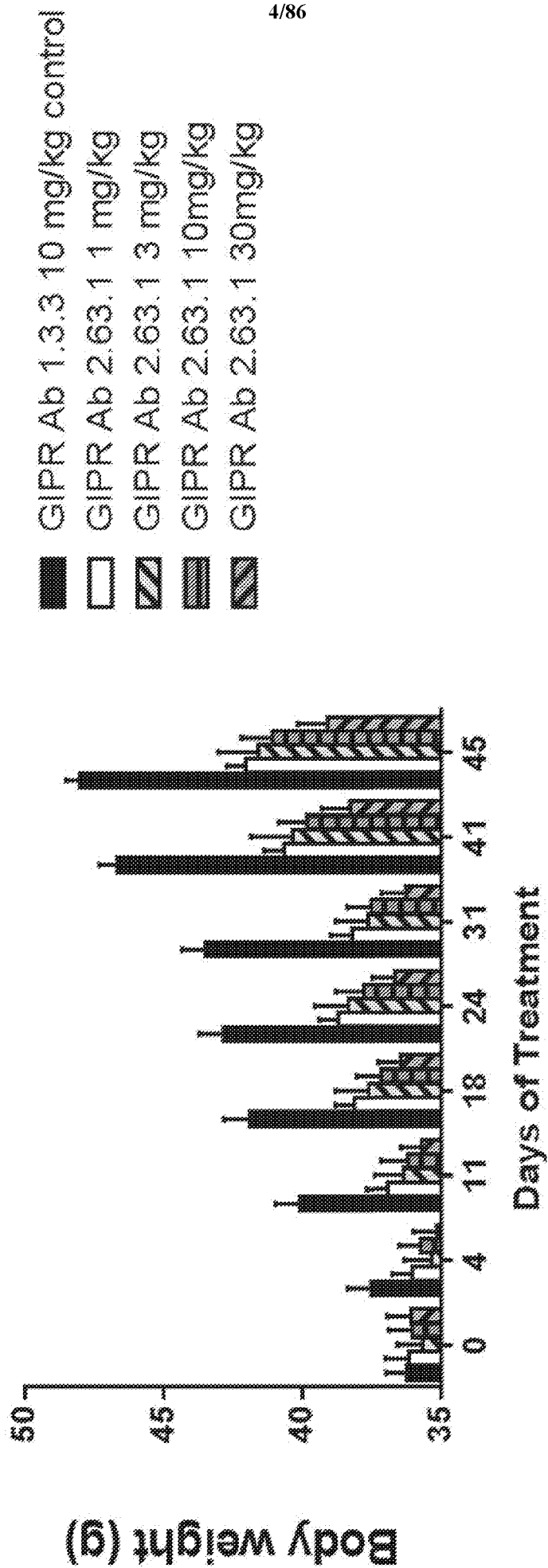


Fig. 4

GIPR Antibody 2.63.1 Results In Lower Fat Mass

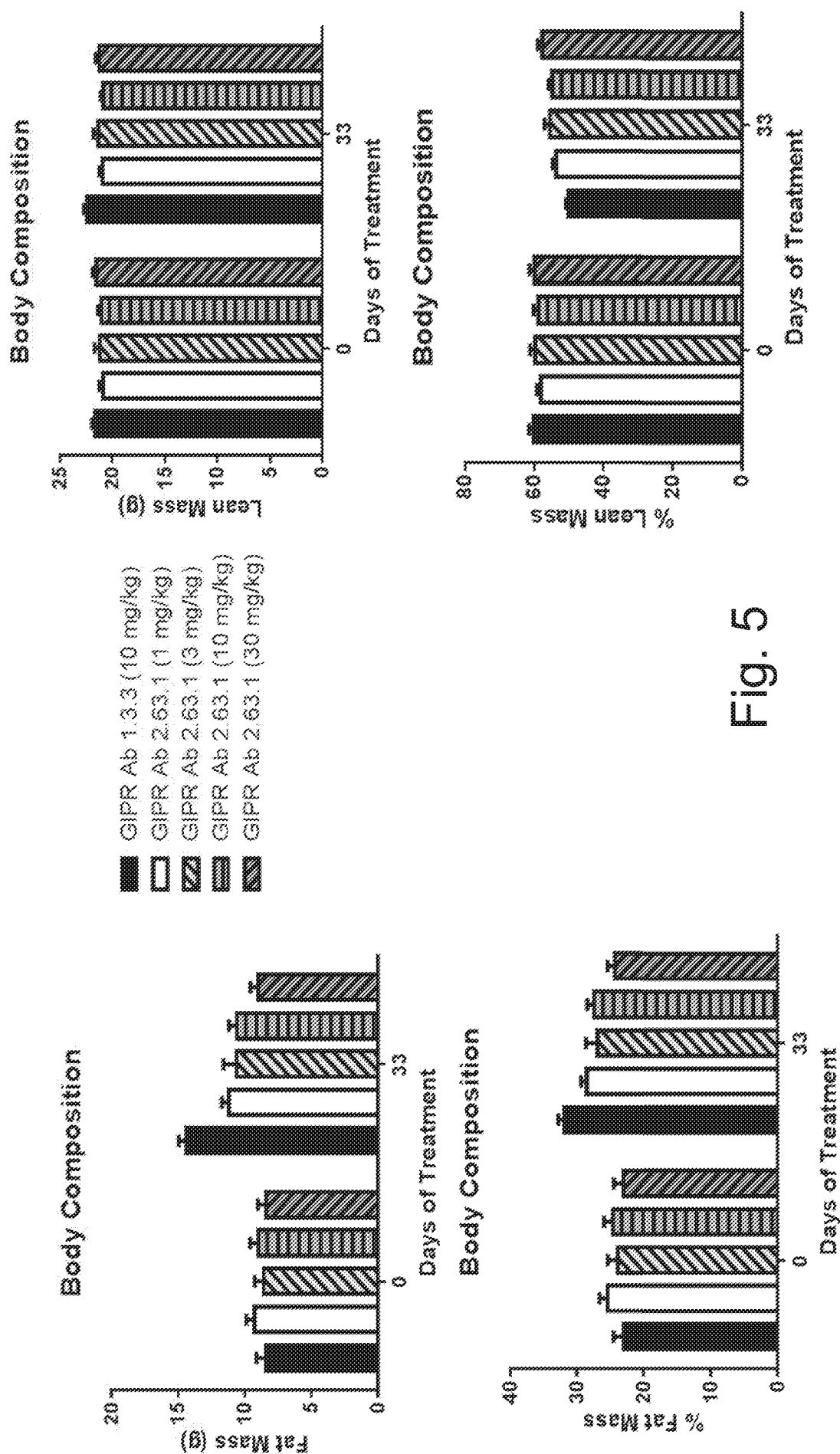


Fig. 5

GIPR Antibody 2.63.1 Results In Lower Epididymal White Adipose Tissue Weights

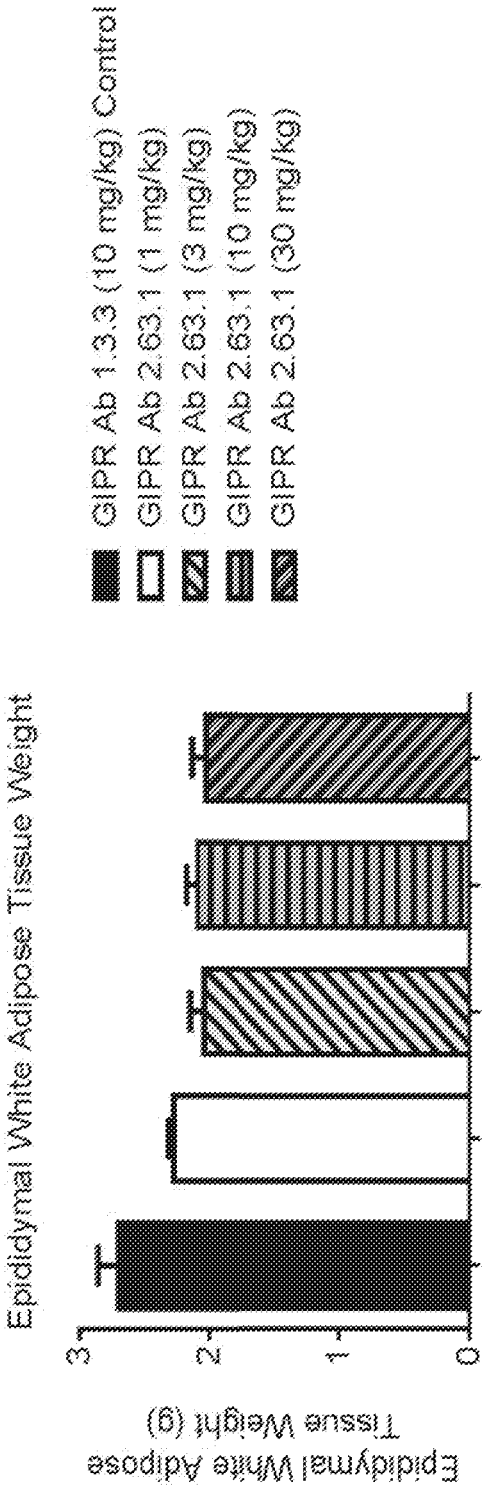


Fig. 6

GIPR Antibody 2.63.1 Results In Lower Fasting Glucose Levels

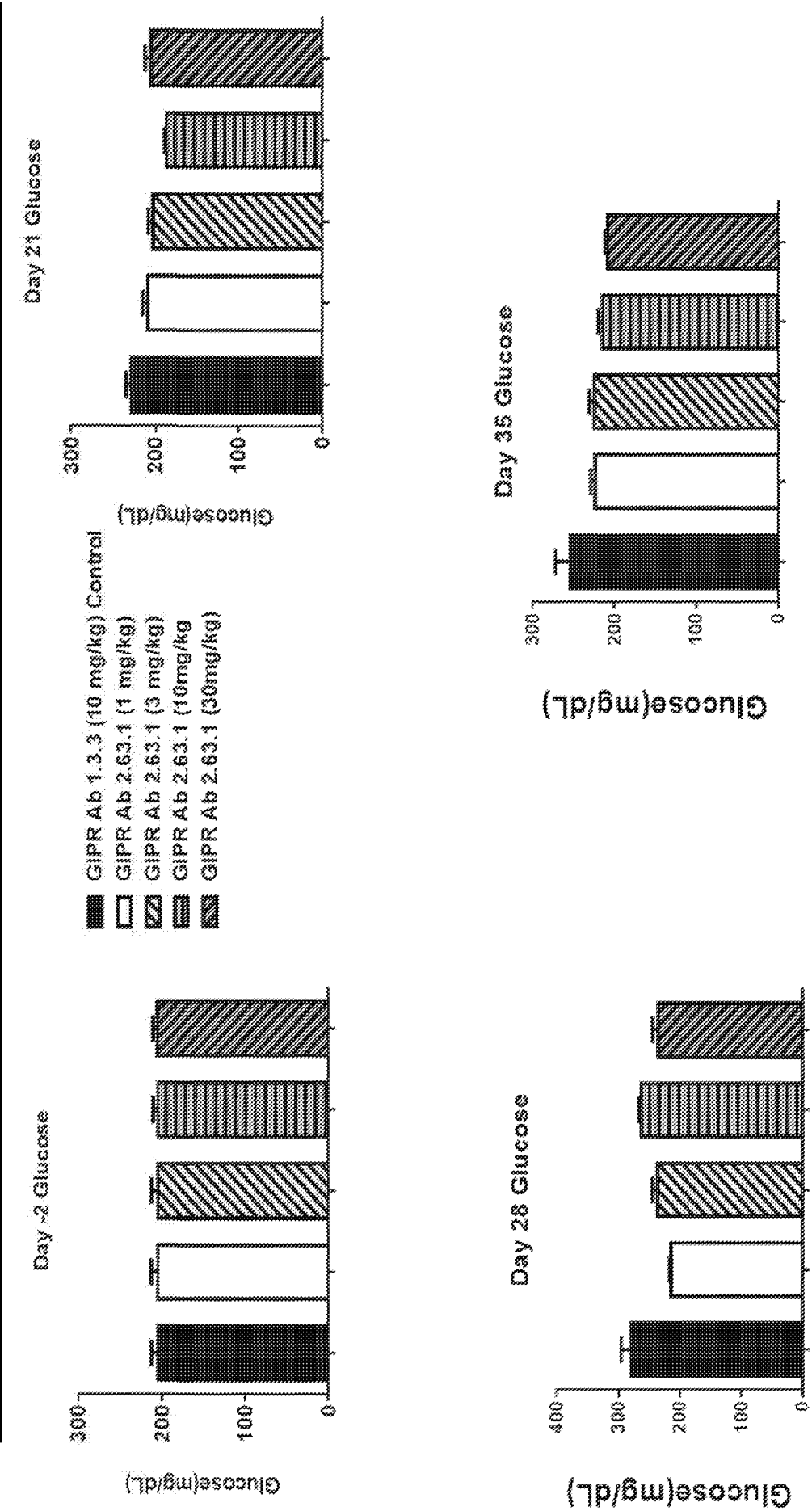


Fig. 7

GIPR Antibody 2.63.1 Results In Lower Insulin Levels

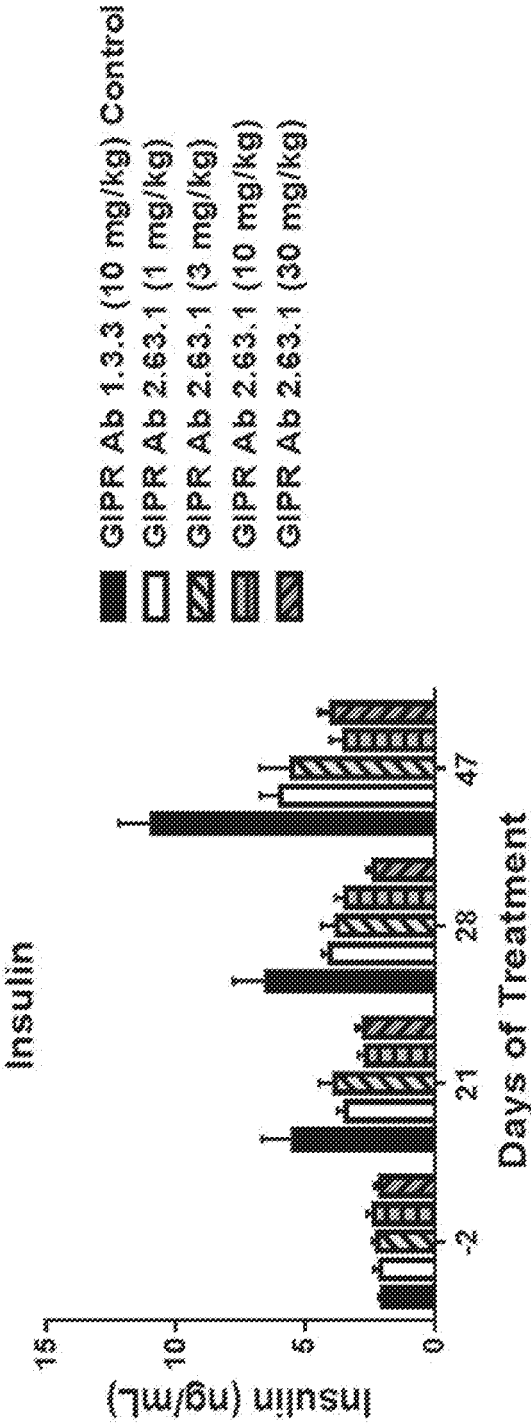


Fig. 8

GIPR Antibody 2.63.1 Results In Improved Glucose Tolerance

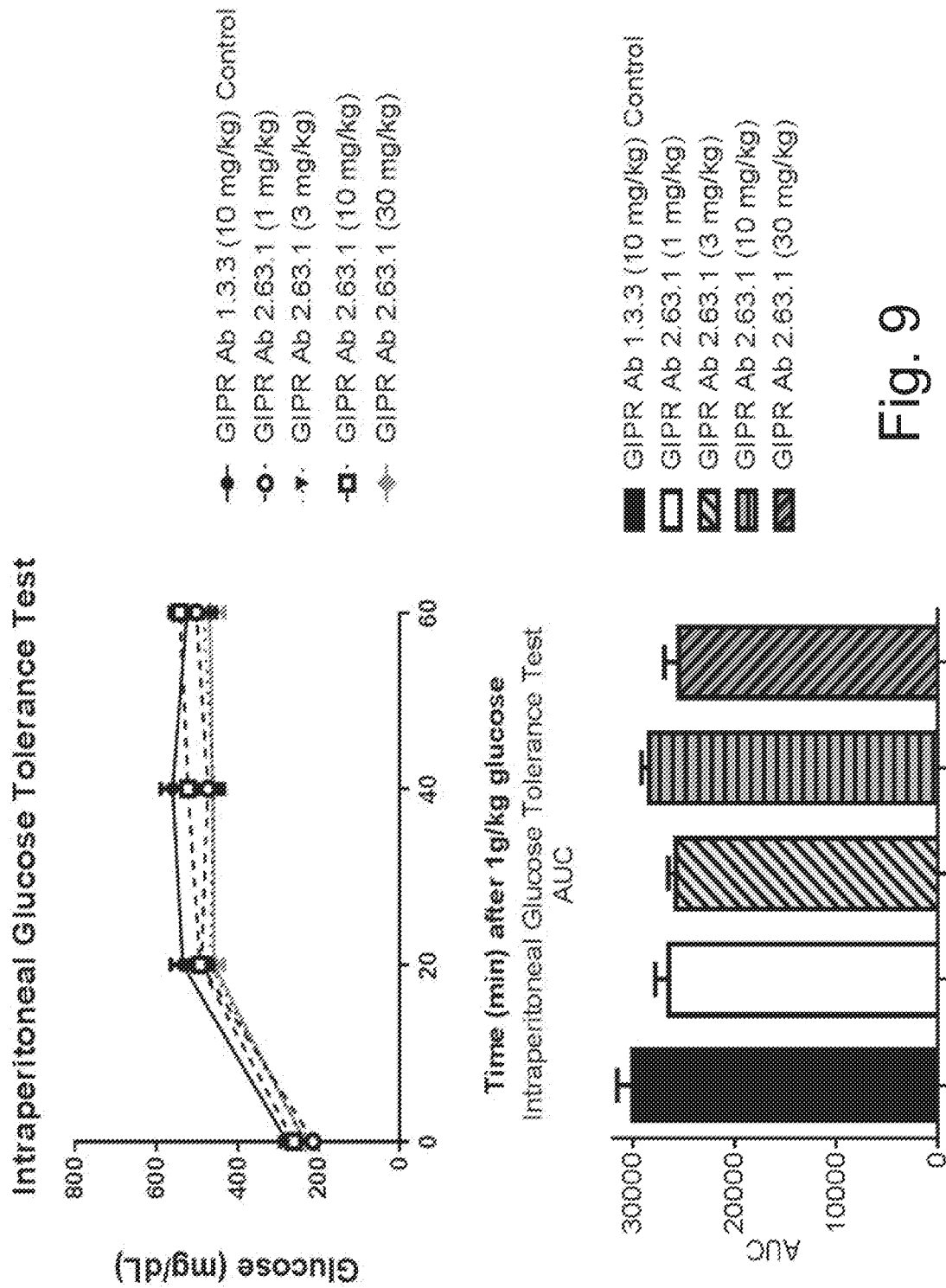


Fig. 9

GIPR Antibody 2.63.1 Results In Lower Serum Total Cholesterol And Triglycerides

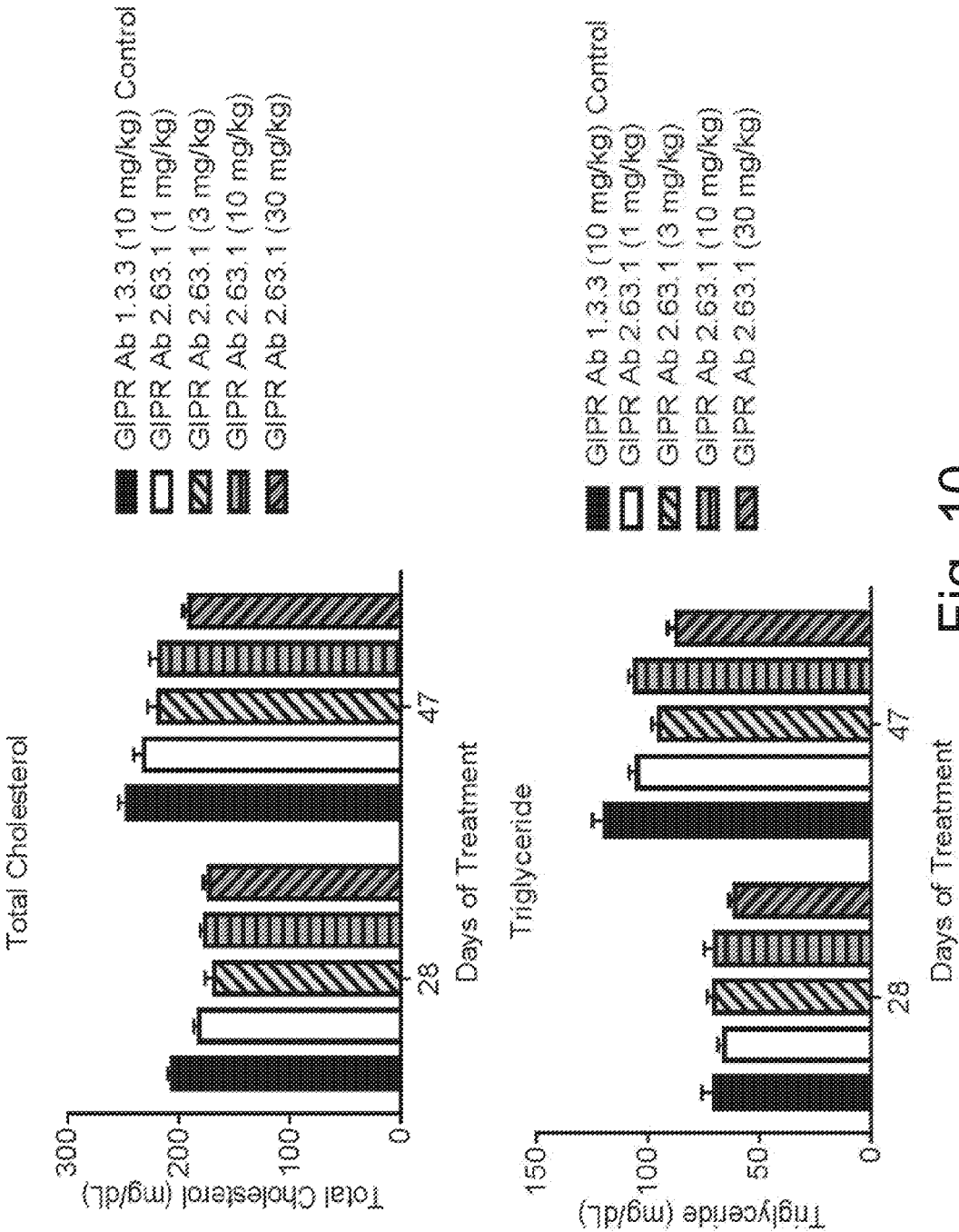


Fig. 10

GIPR Antibody 2.63.1 Results In A Reduction In Hepatocyte Microvesicular Change And Corresponding Lipid Accumulation

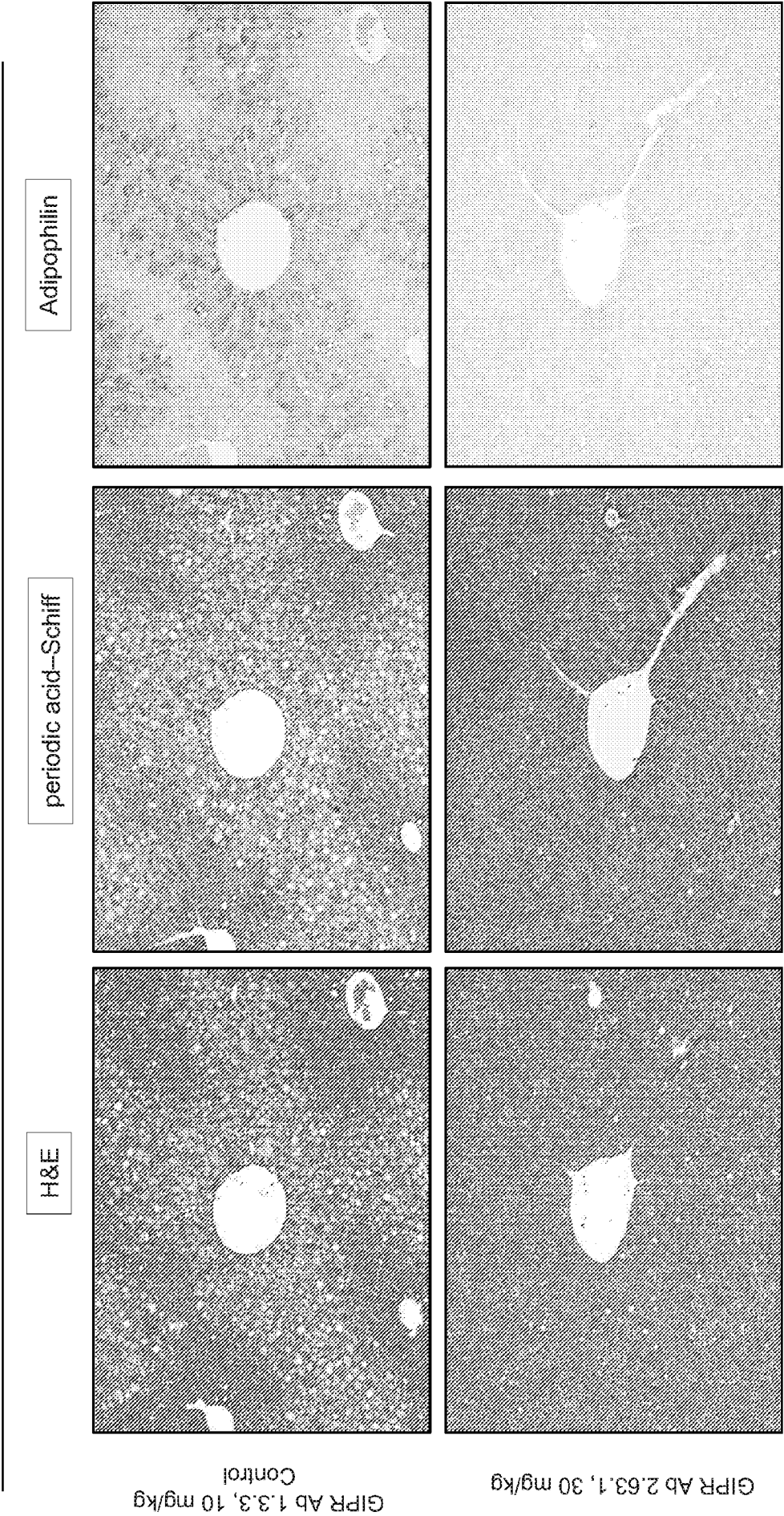


Fig. 11

GIPR Antibody 2.63.1 Results In Reduced Liver Weight And Triglyceride Content

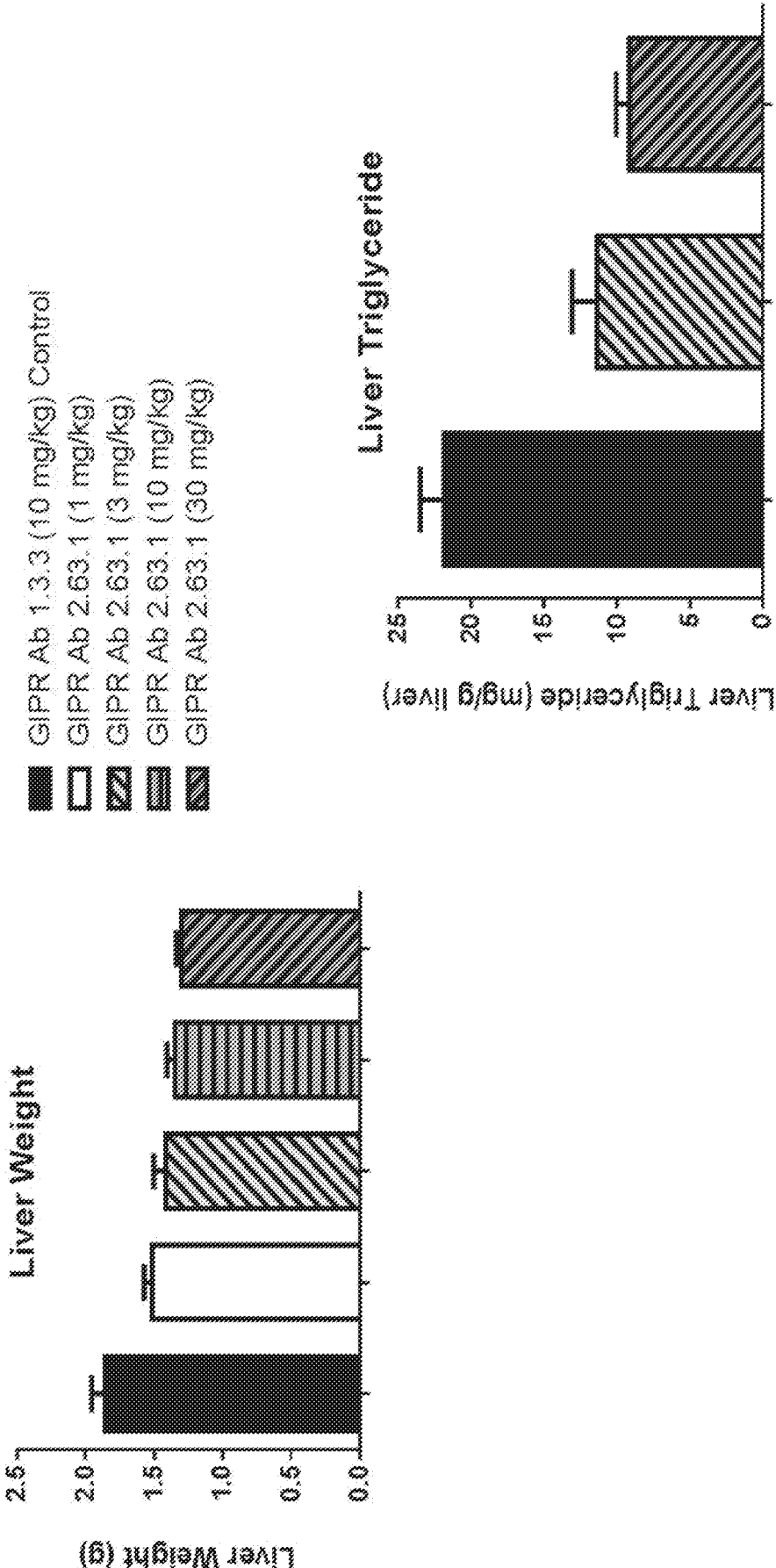


Fig. 12

Reduced Inflammation And Reduced Infiltrating Macrophages
Cells Surrounding Adipocytes In Epididymal White Adipose Tissue
With GIPR Antibody 2.63.1 Treatment

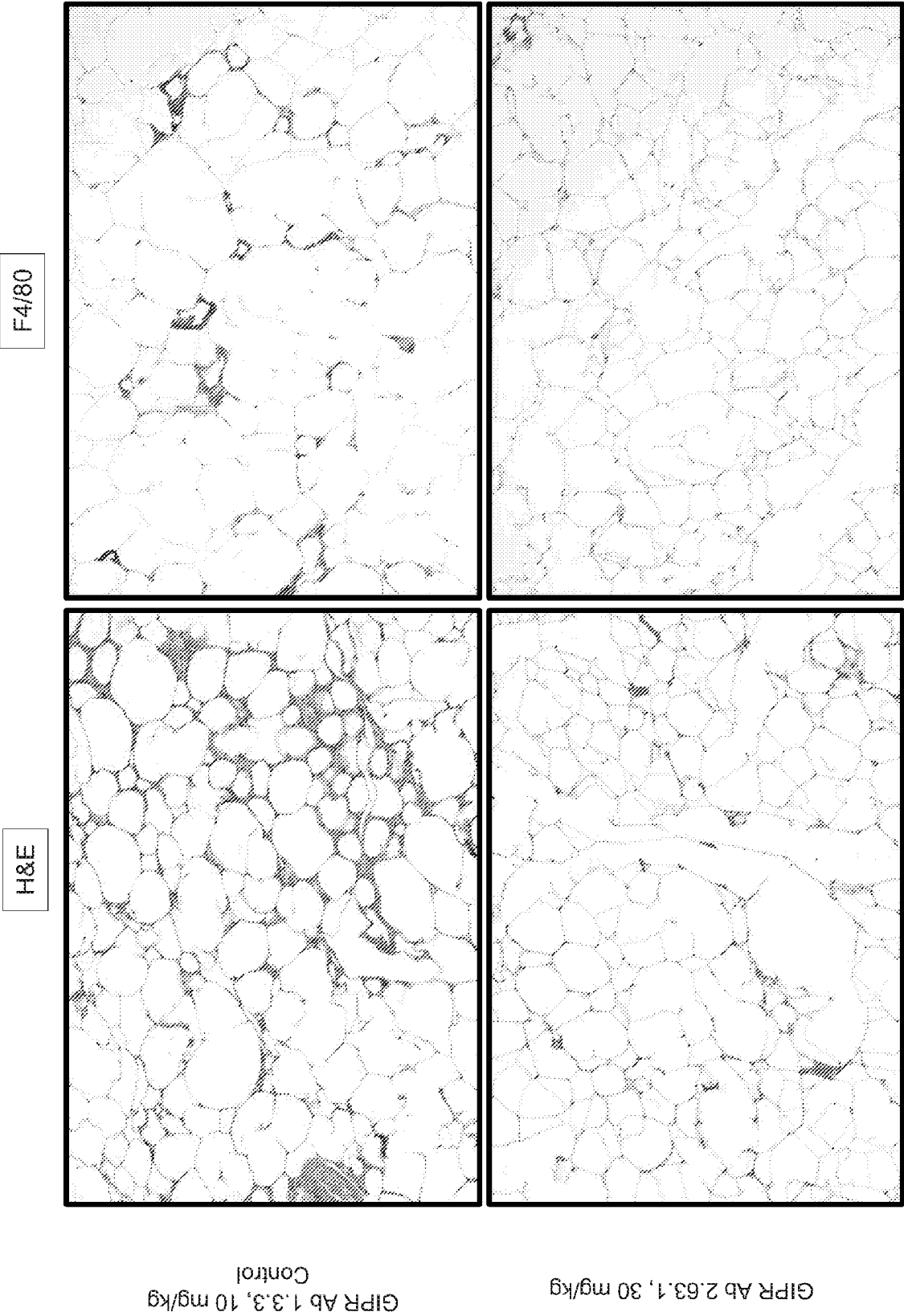


Fig. 13

4H9 Family

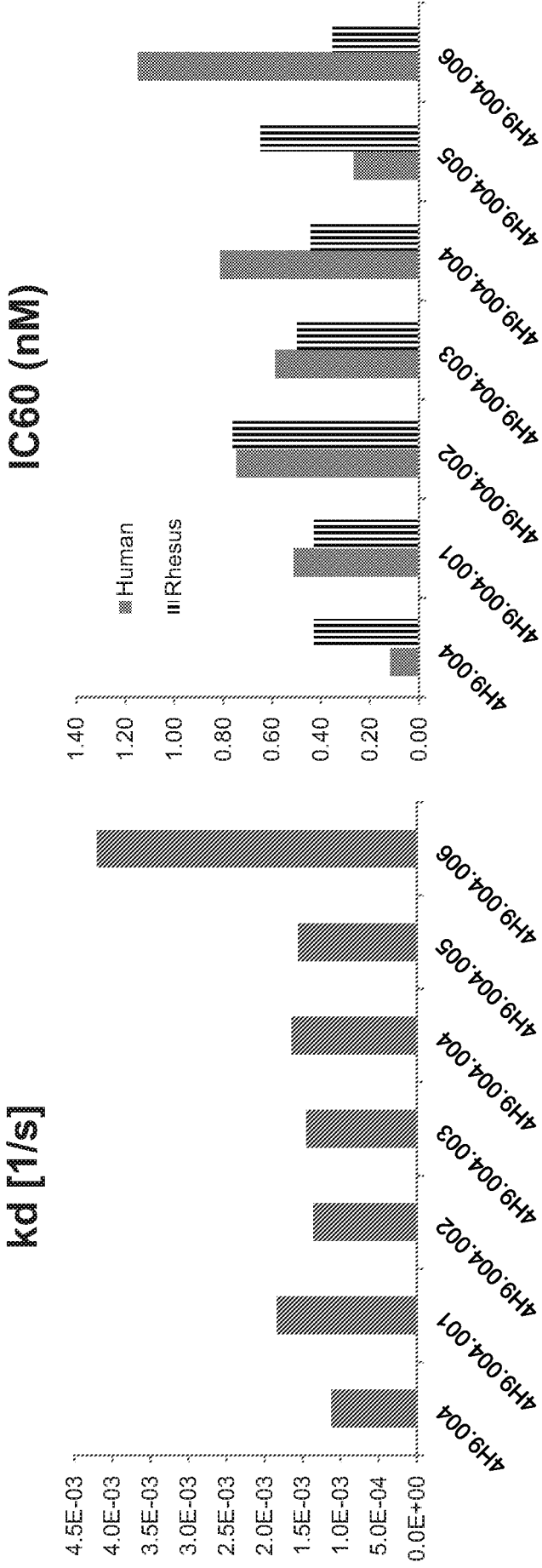


Fig. 14A

4B1 Family

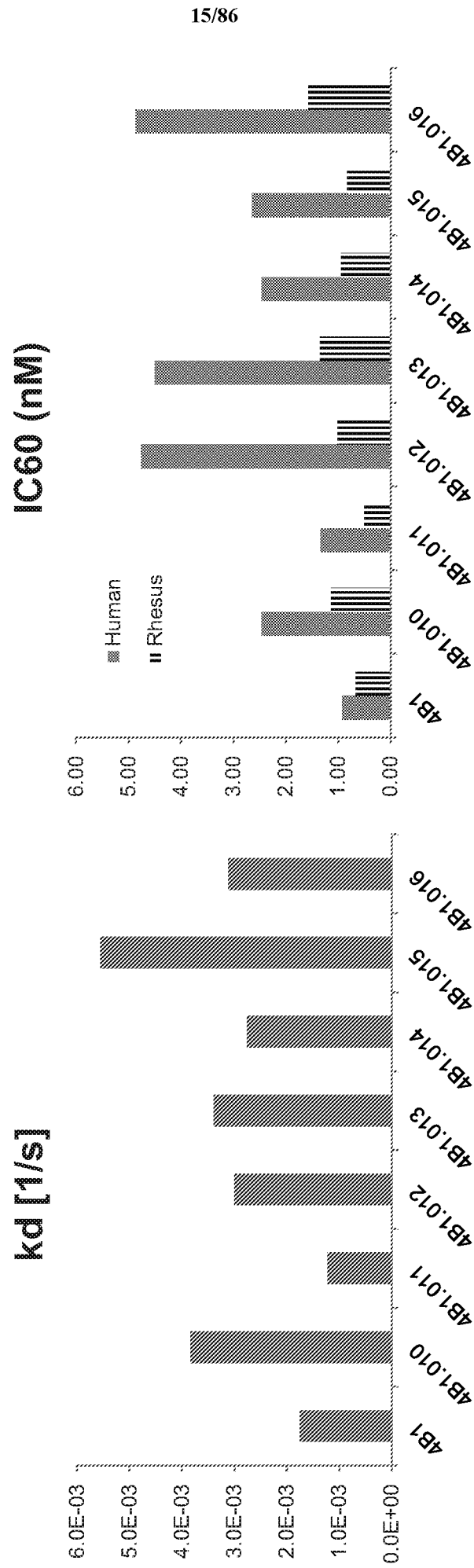


Fig. 14B

18F2 Family

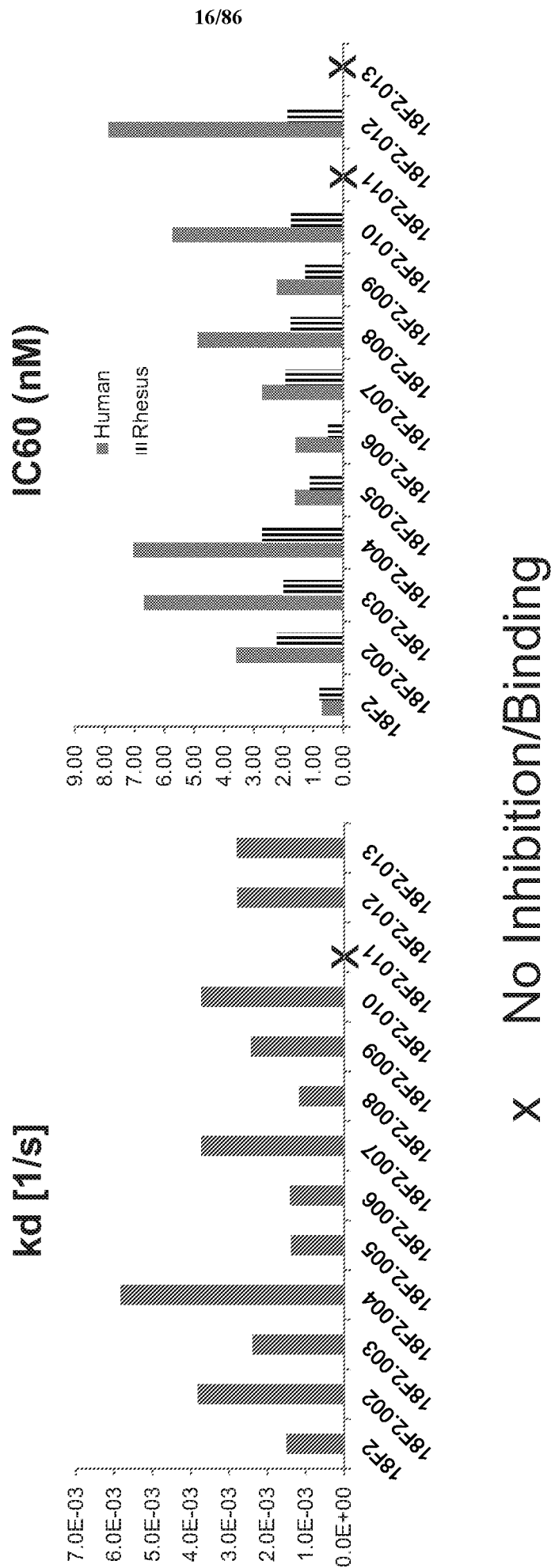


Fig. 14C

2F11 Family



x No Inhibition/Binding
^ Beyond Plotted Range

Fig. 14D

6H1 Family

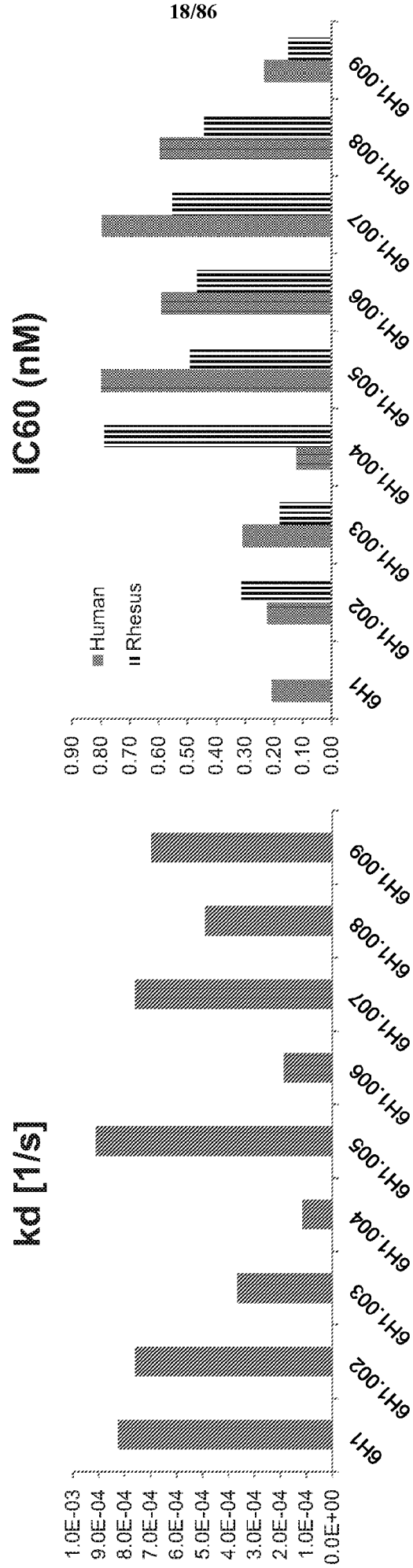
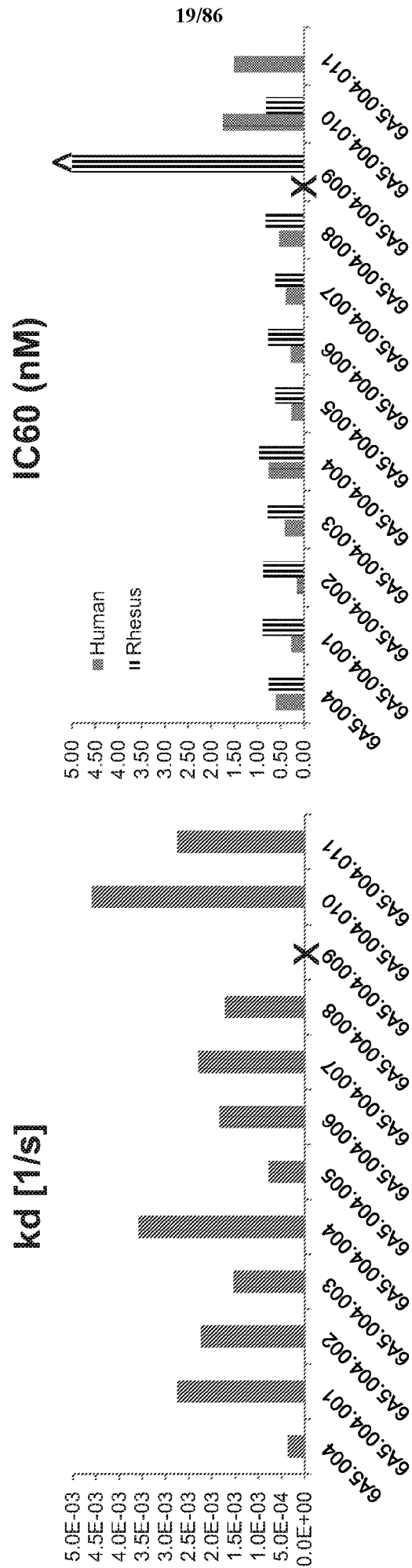


Fig. 14E

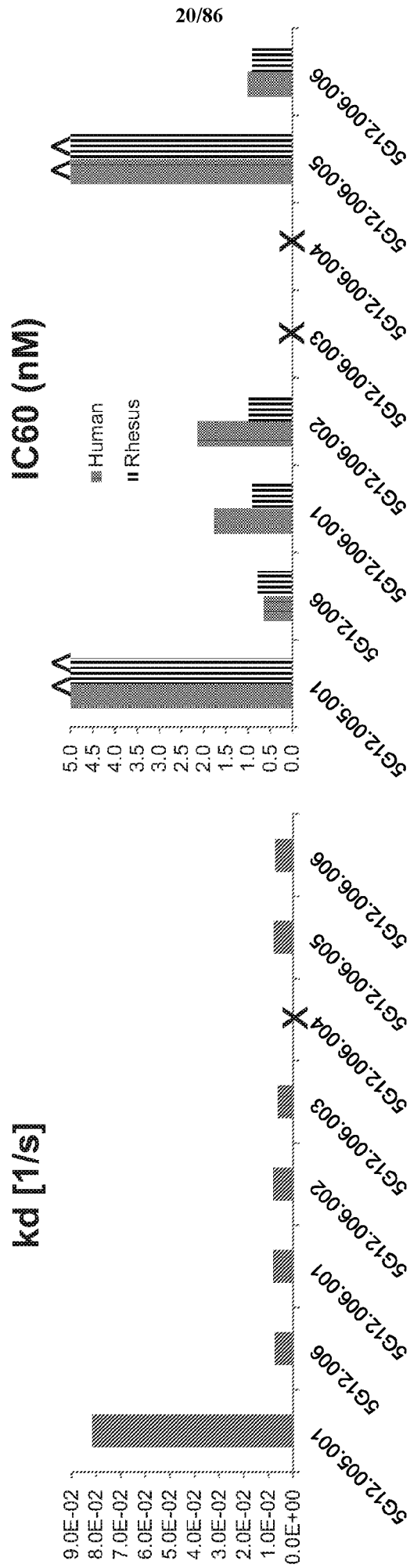
6A5 Family



X No Inhibition/Binding
v Beyond Plotted Range

Fig. 14F

5G12 Family



x No Inhibition/Binding
^ Beyond Plotted Range

Fig. 14G

2A11 Family

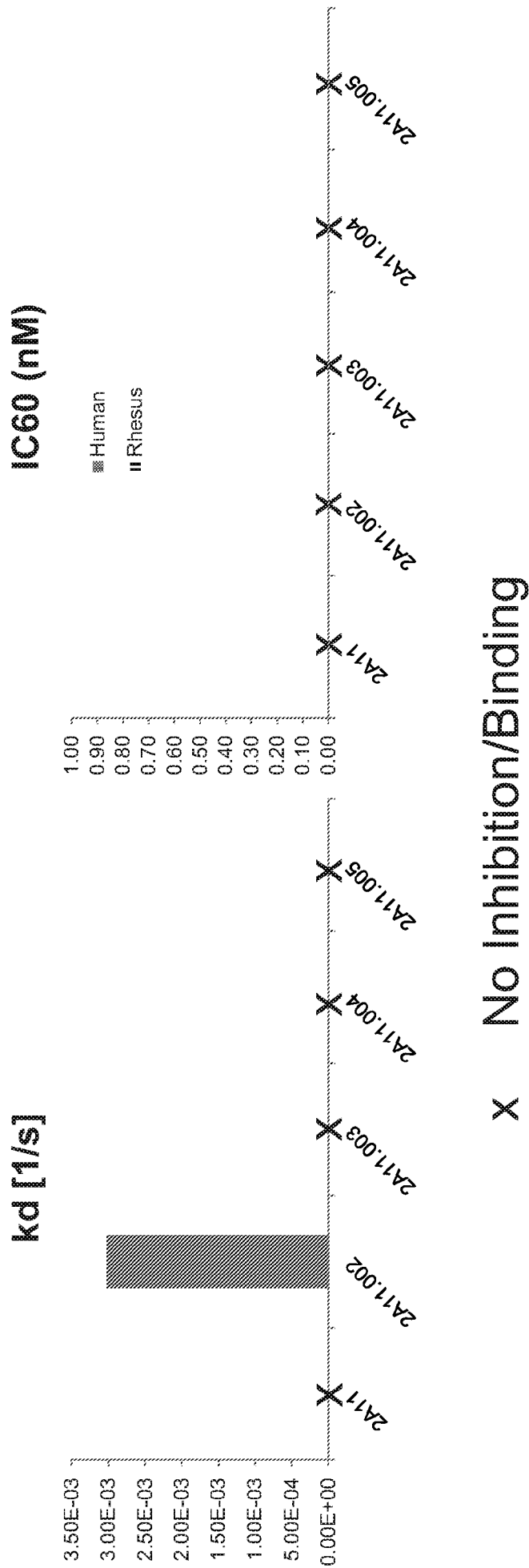
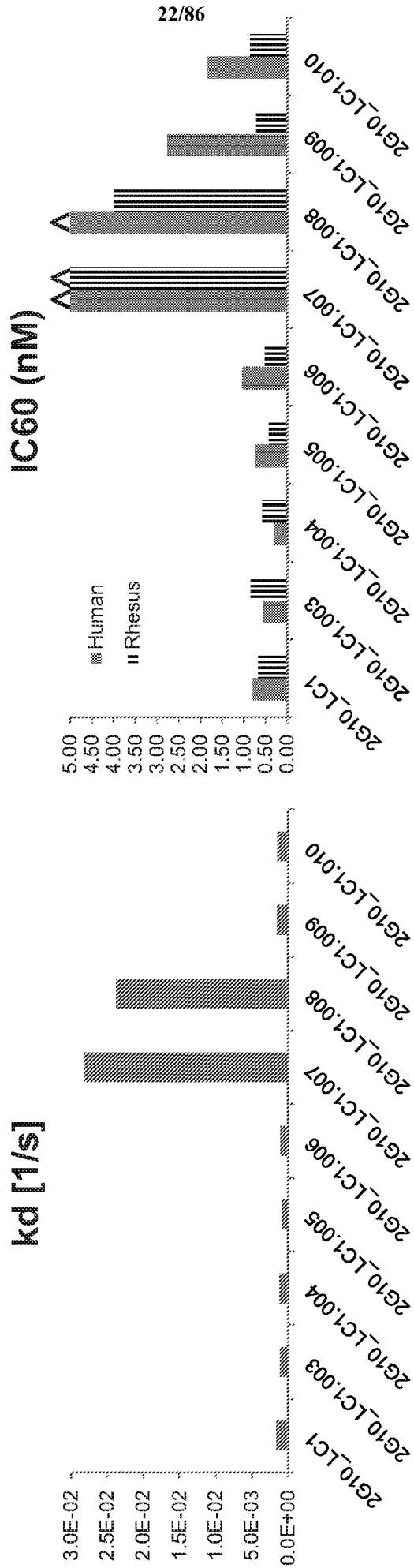


Fig. 14H

2G10 Family



△ Beyond Plotted Range

Fig. 14I

17H11 Family

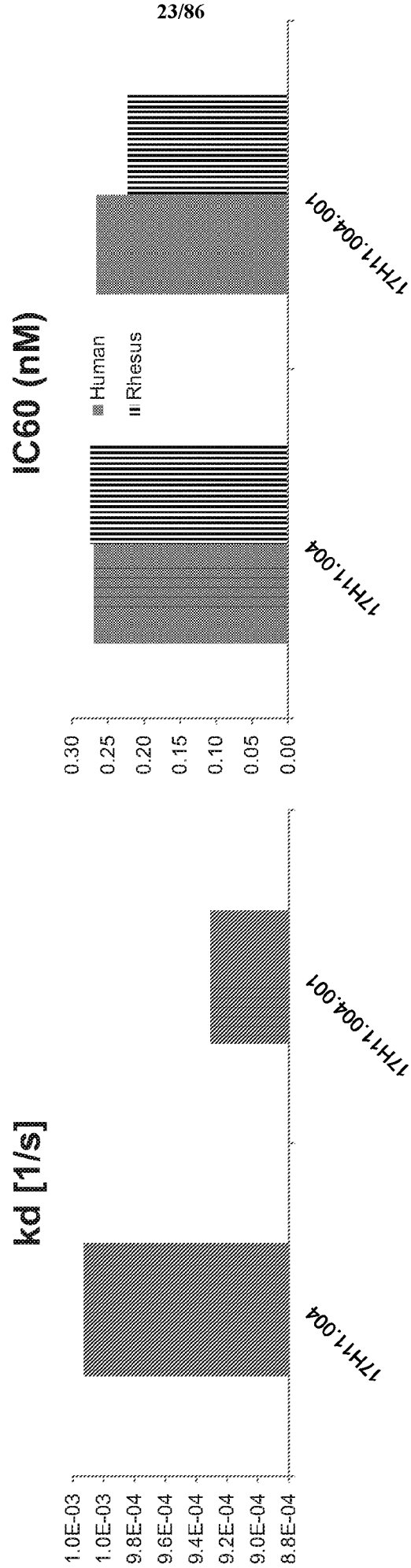


Fig. 14J

18E3 Family

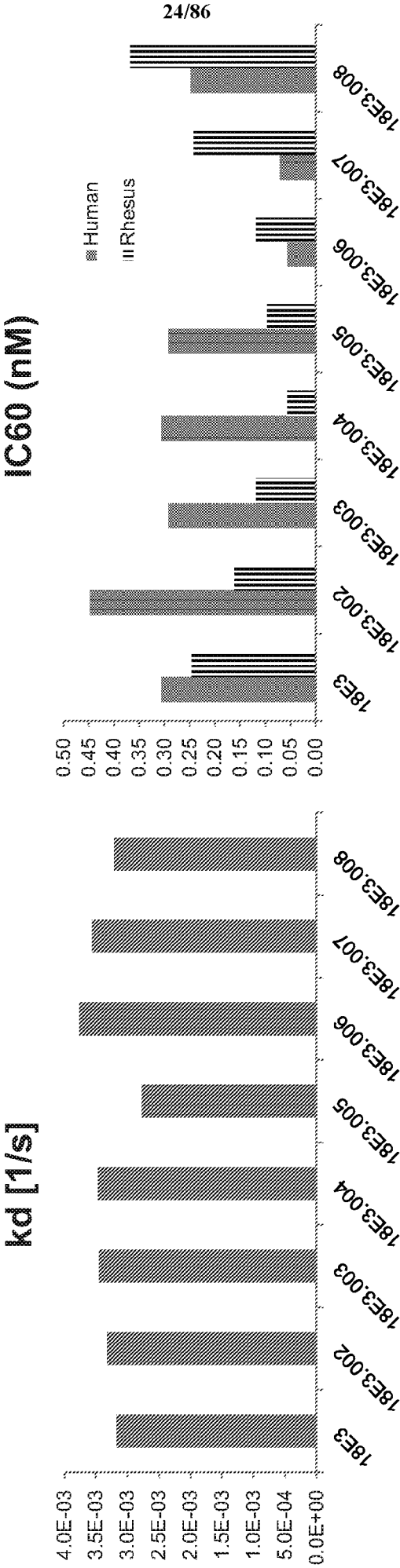
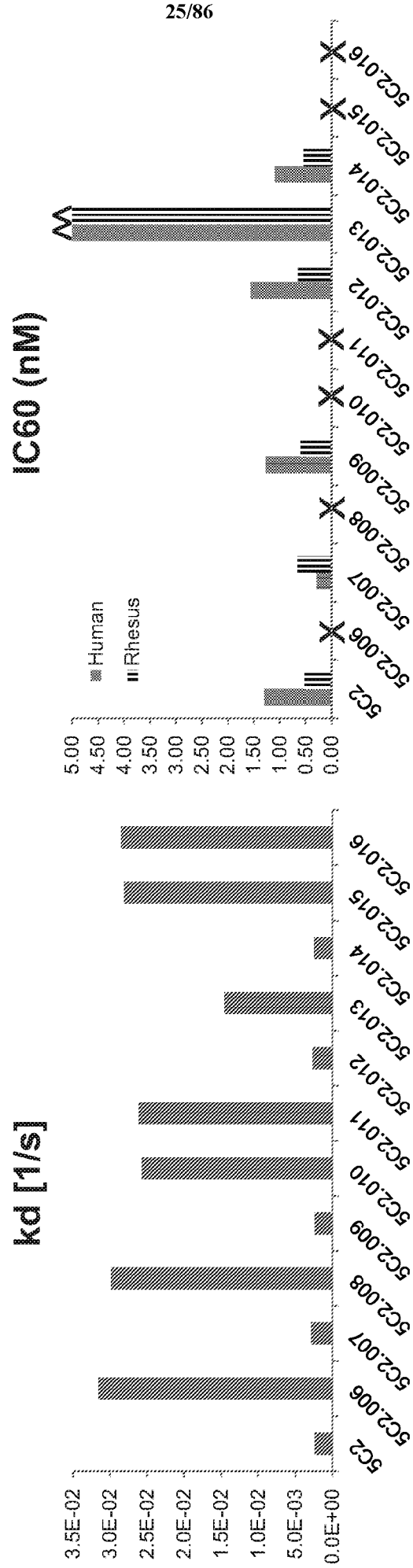


Fig. 14K

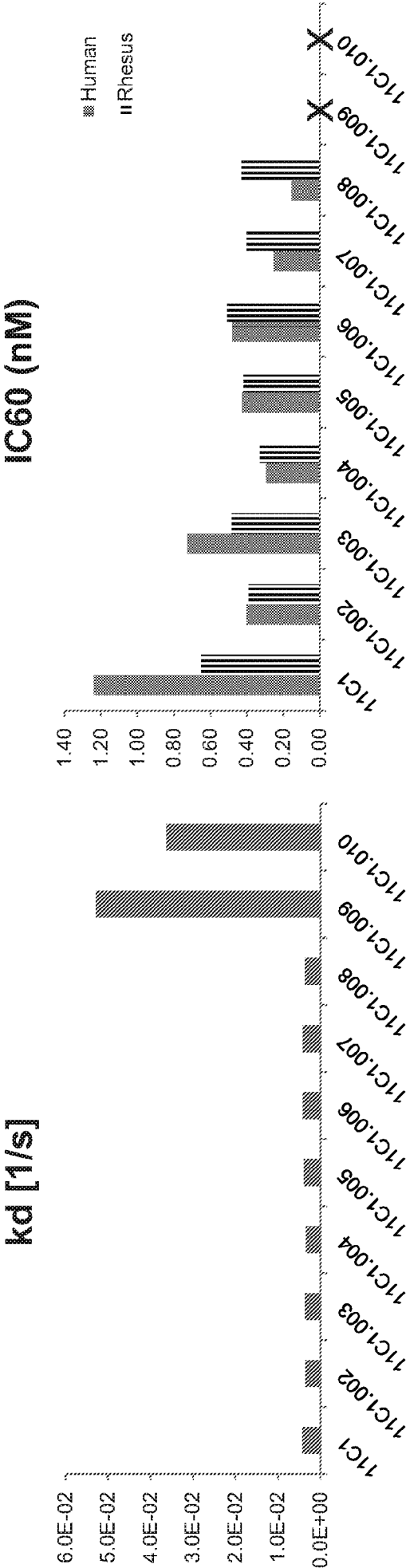
5C2 Family



X No Inhibition/Binding
^ Beyond Plotted Range

Fig. 14L

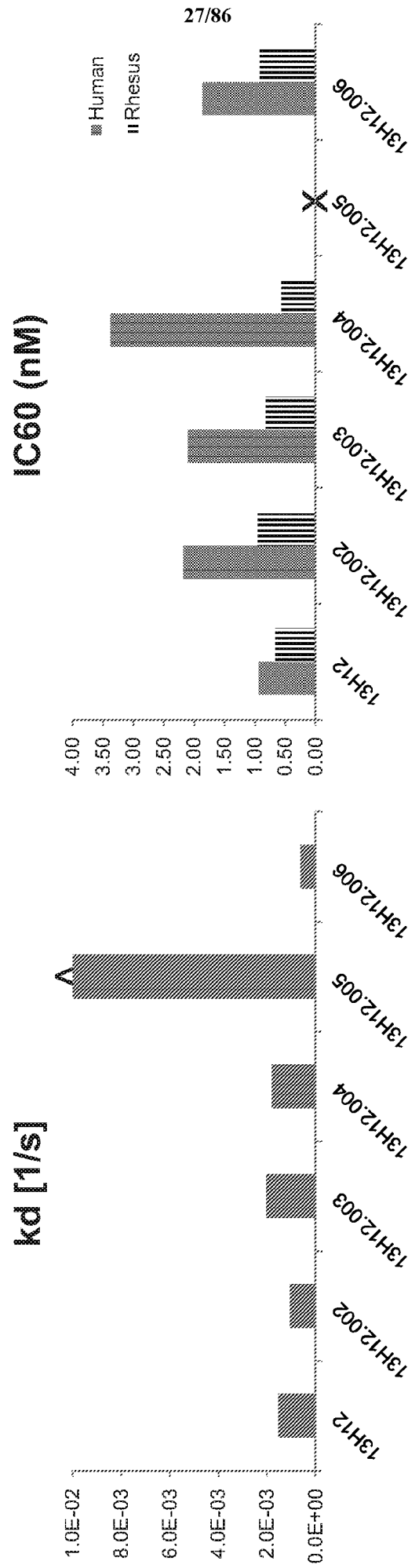
11C1 Family



X No Inhibition/Binding

Fig. 14M

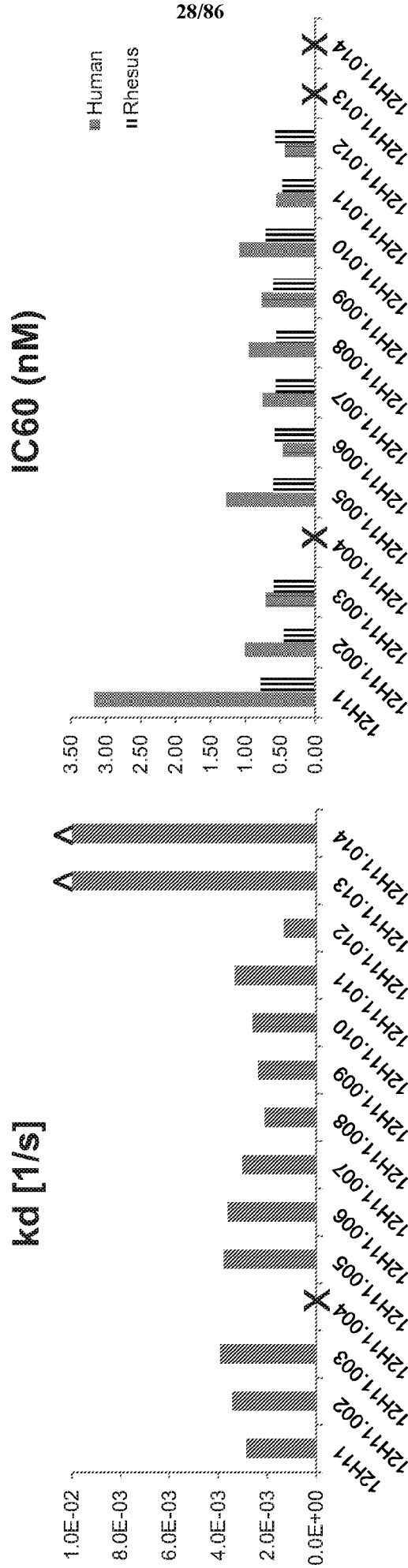
13H12 Family



x No Inhibition/Binding
^ Beyond Plotted Range

Fig. 14N

12H11 Family



X No Inhibition/Binding
^ Beyond Plotted Range

Fig. 140

2C2 Family

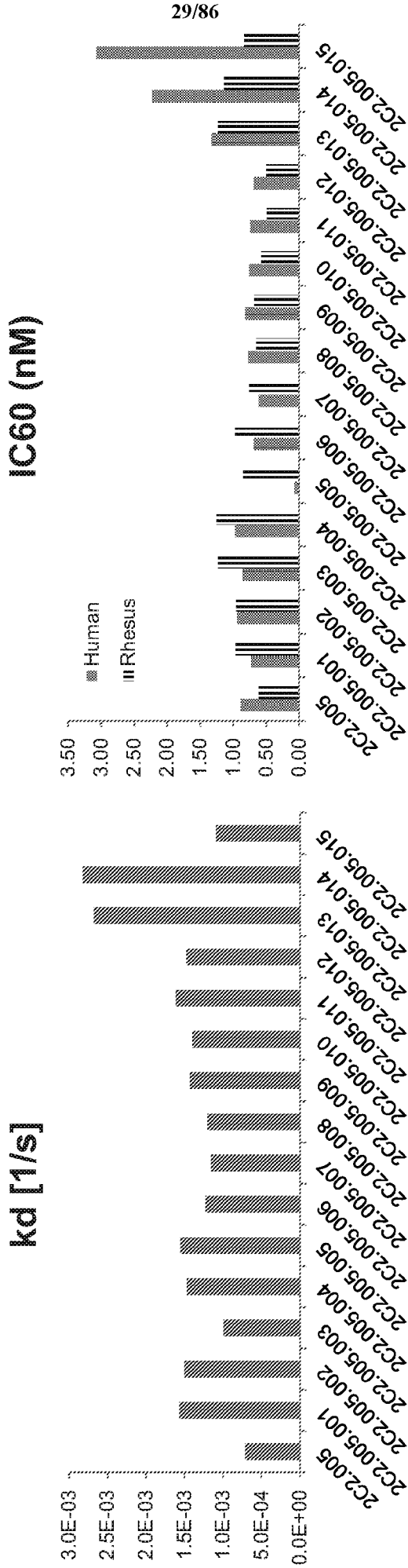


Fig. 14P

17B11 Family

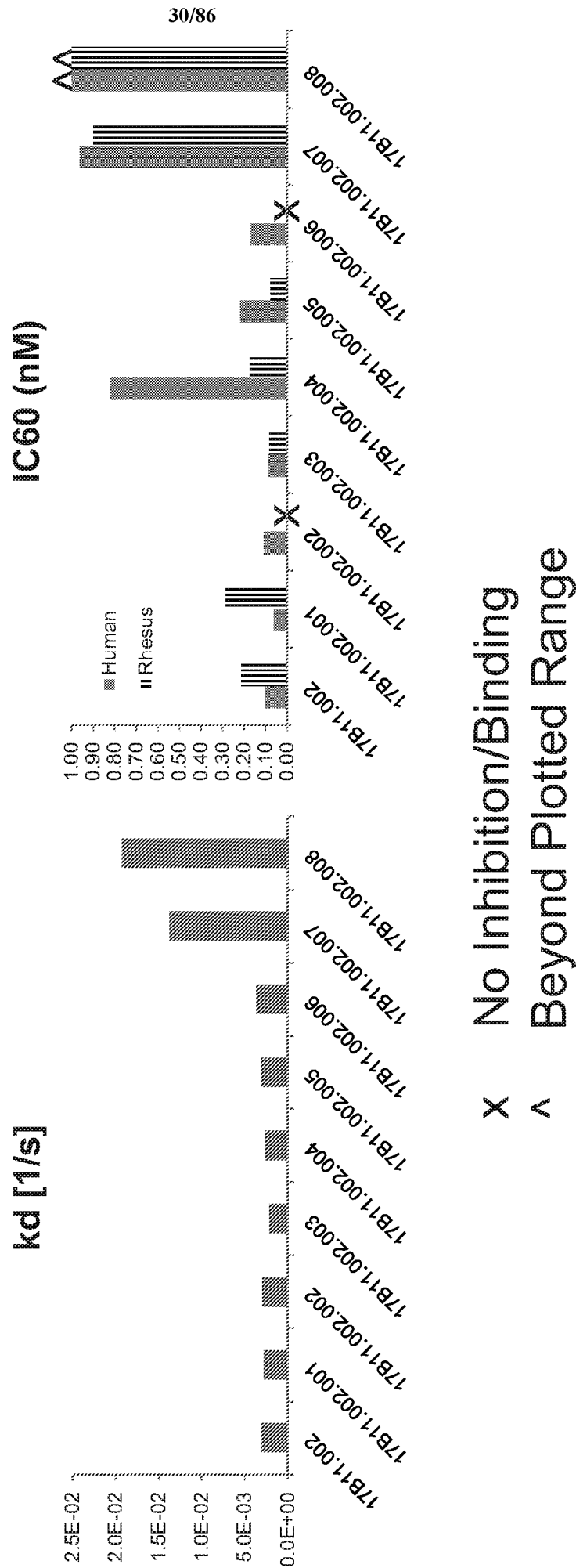


Fig. 14Q

16H1 Family Binding to huGIPR ECD

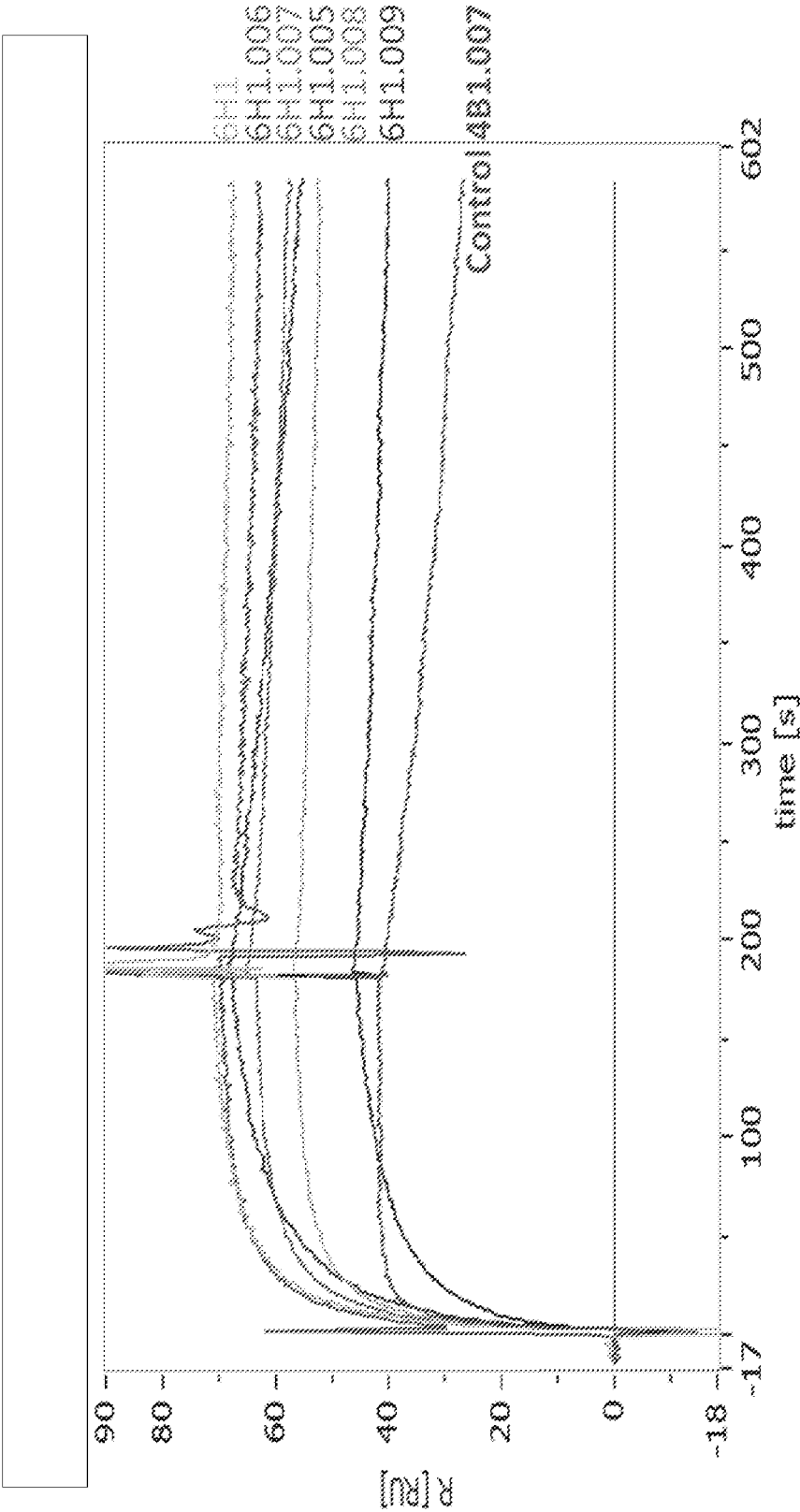
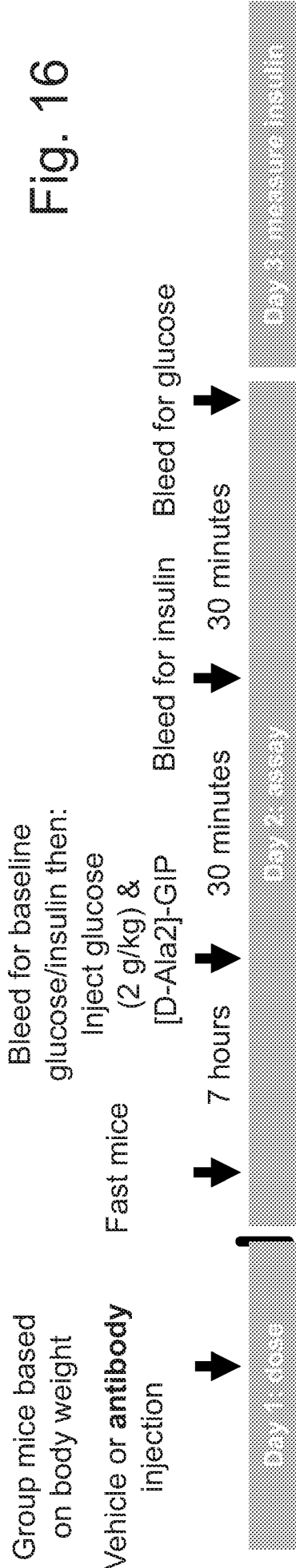


Fig. 15

Mouse Pharmacodynamic Assay To Test GIPR Antibodies - Study Design

- Mice: Diet-induced obese C57BL/6 from Jackson Labs, age 18 weeks of age
- Assay: To test GIPR antibody on inhibition of insulin secretion induced by exogenous GIP ([D-Ala2]-GIP) and glucose
- Readout
 - Insulin (T = 0, 30 min from [D-Ala2]-GIP and glucose dose)
 - Glucose (T = 0, 60 min from [D-Ala2]-GIP and glucose dose)
- Study groups
 - Negative control: Vehicle, [D-Ala2]-GIP (50 nmol/kg)
 - Antibody 5G12.006 at 0.008, 0.04, 0.2, 1, 5 mg/kg
 - Positive control: Vehicle, no [D-Ala2]-GIP



GIPR Antibody 5G12.006 Antagonized GIP Induced

Insulin Secretion

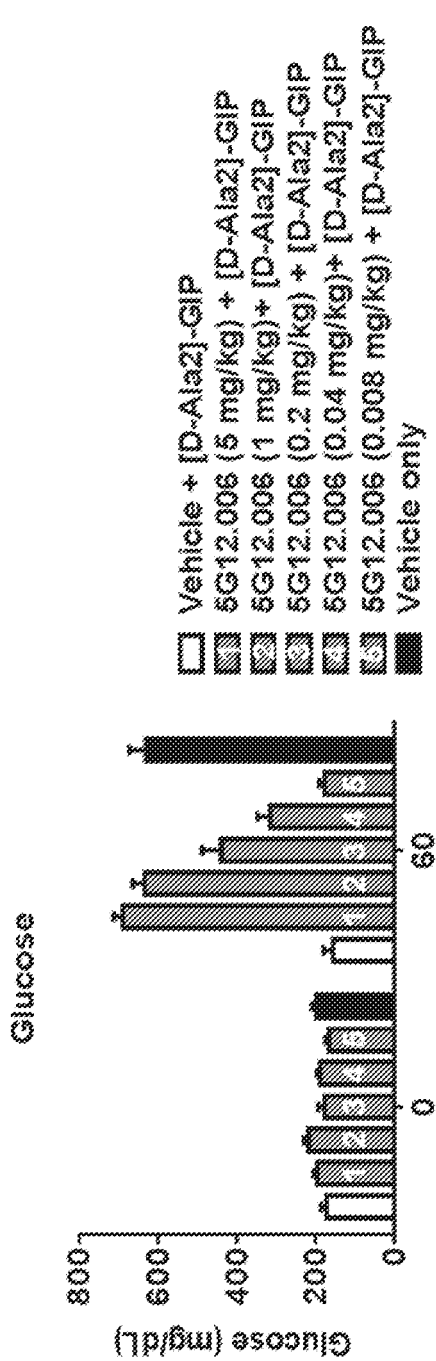
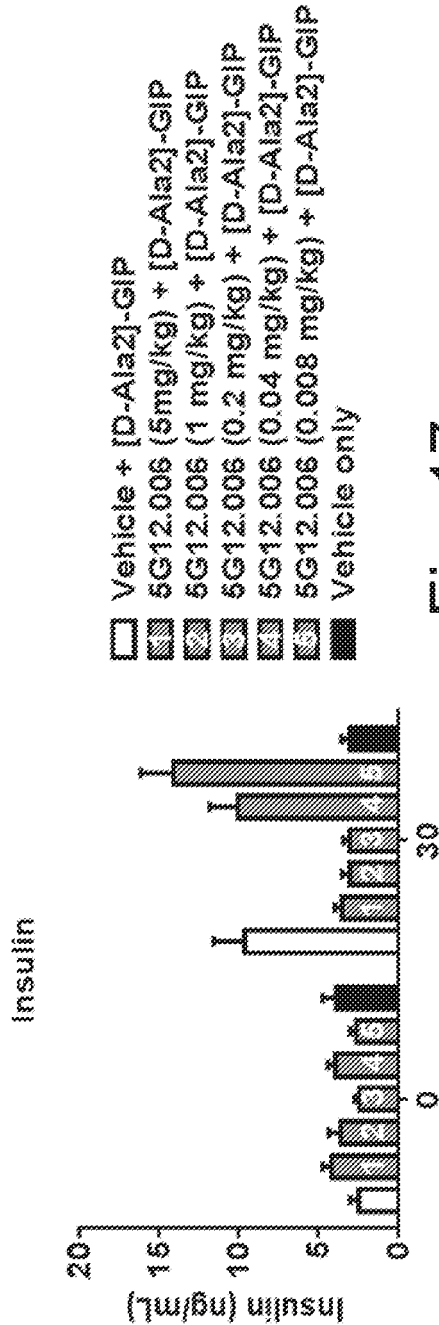
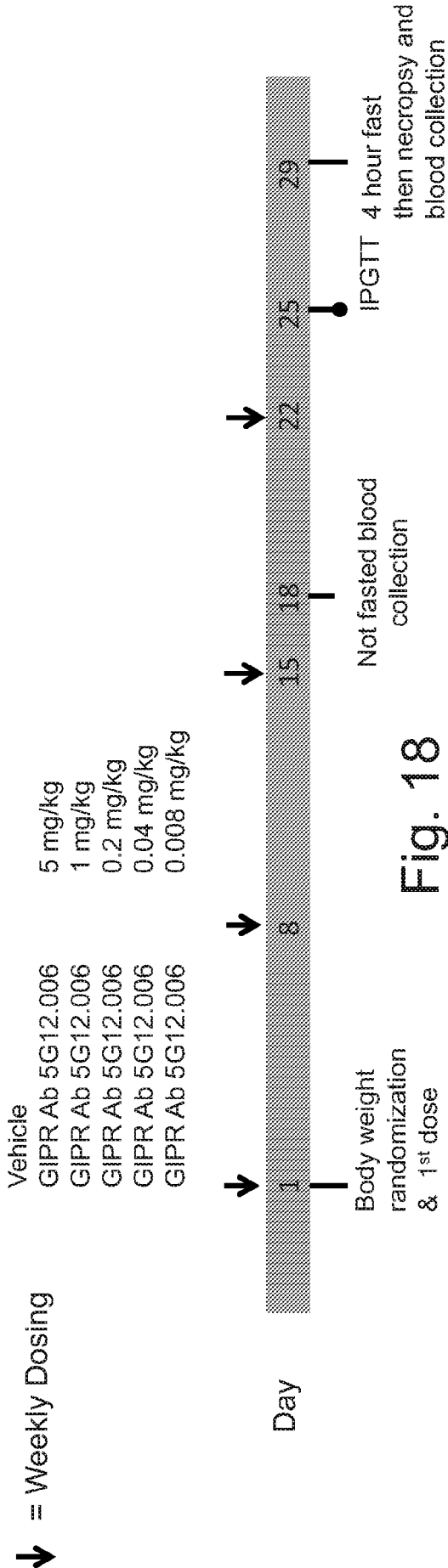


Fig. 17

Chronic Treatment Of Diet Induced Obese Mice With GIPR Antibody 5G12.006 - Study Design

- Male C57BL/6 Diet-Induced Obese mice (Jackson Lab), 18 weeks old at start (on high fat diet for 12 weeks)
- Mice were randomized based on body weight
- Mice were dosed each week for 4 weeks
- Body weights were recorded twice a week; not fasted glucose measured on day 18 and fasted insulin measured on day 29
- Terminal blood collected for measurement of total cholesterol, and triglycerides
- Intraperitoneal glucose tolerance test (IPGTT) was performed on day 25 with 4 hour fast with 1 g/kg of glucose
- After 4 weeks, study was terminated following a 4 hour fast. Serum samples were collected and livers were weighed



GIPR Antibody 5G12.006 Results In Reduced Body Weight Gain

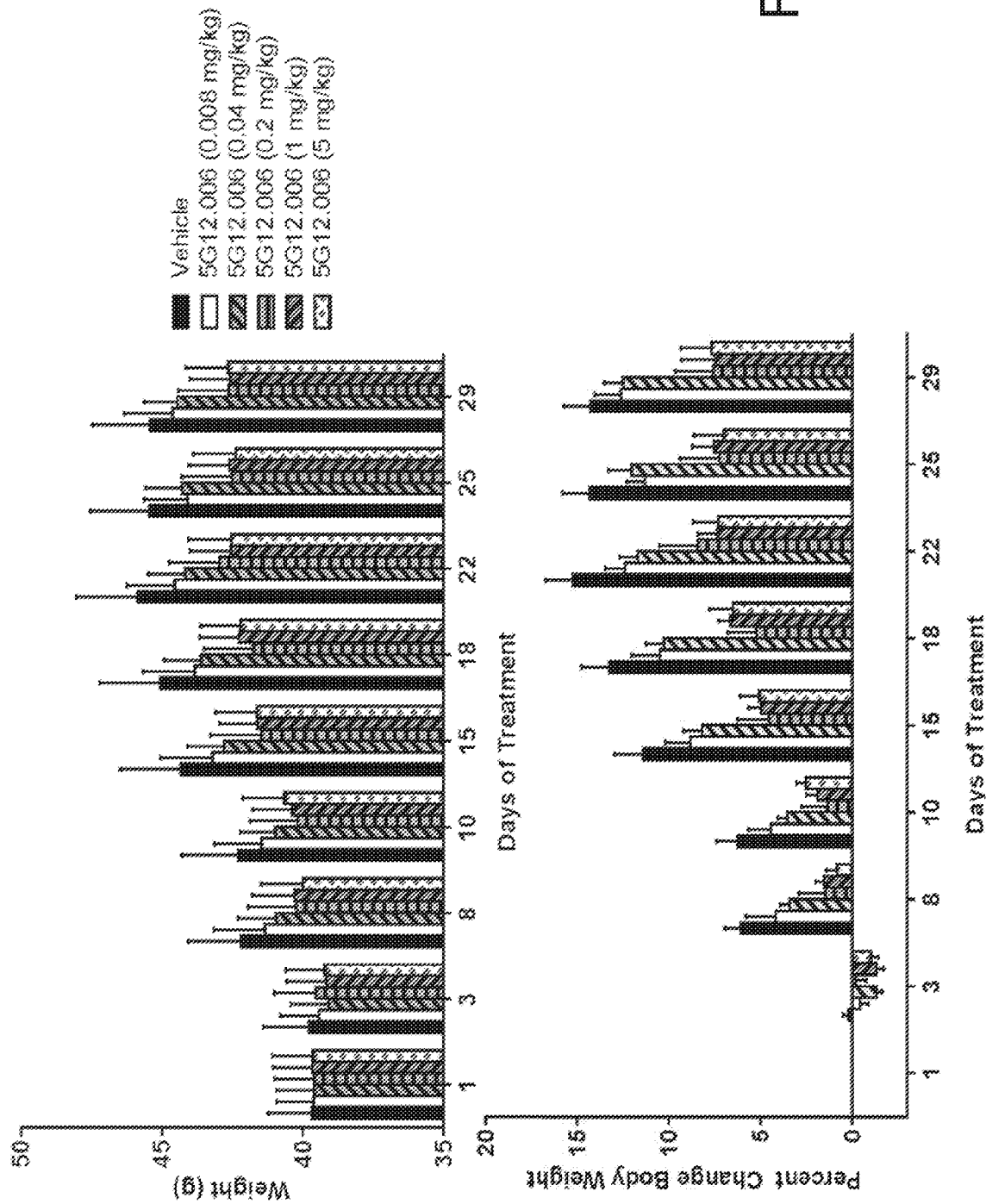


Fig. 19

GIPR Antibody 5G12.006 Results In Improved Glucose Tolerance

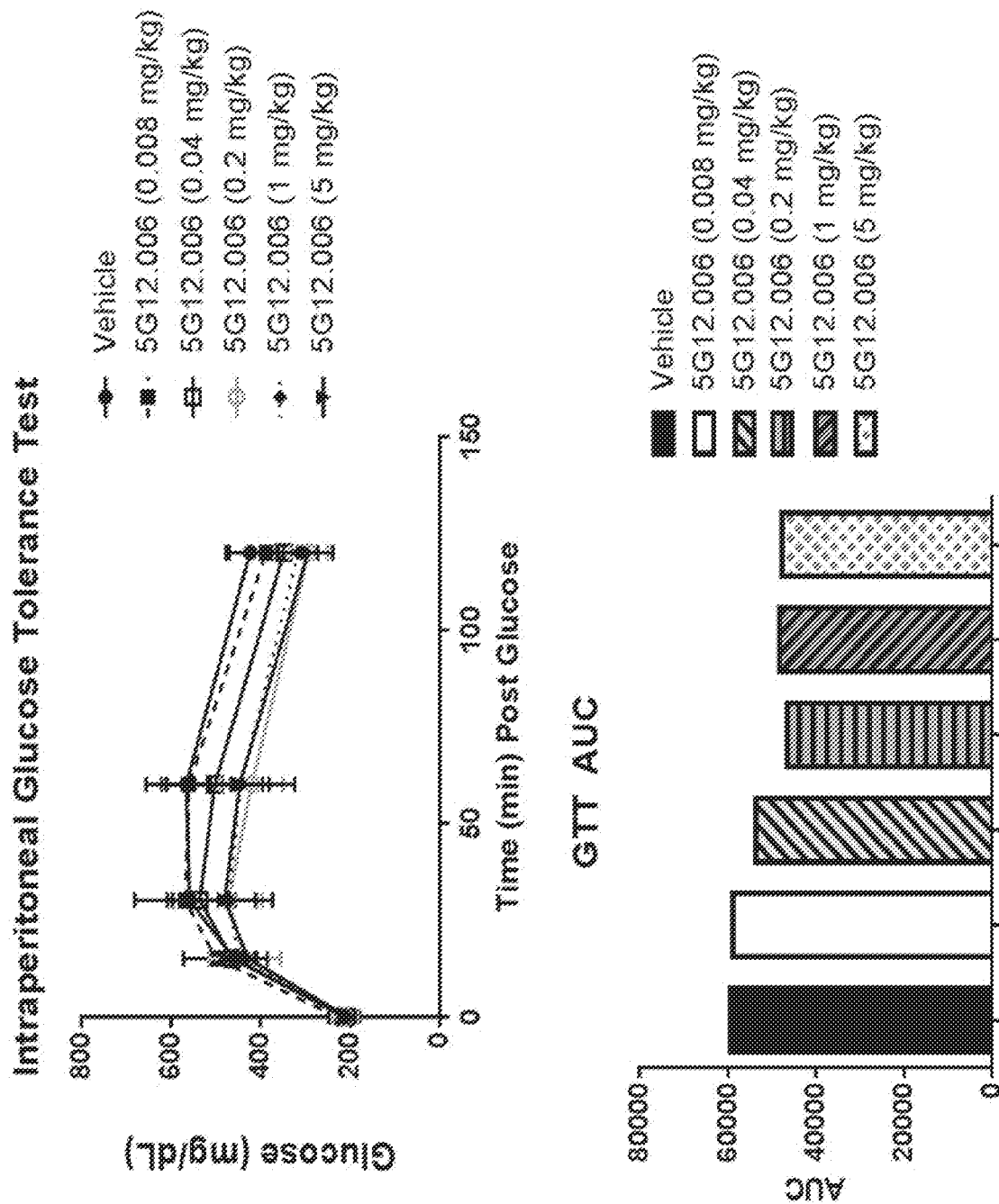


Fig. 20

GIPR Antibody 5G12.006 Results In Lower Glucose and Insulin Levels

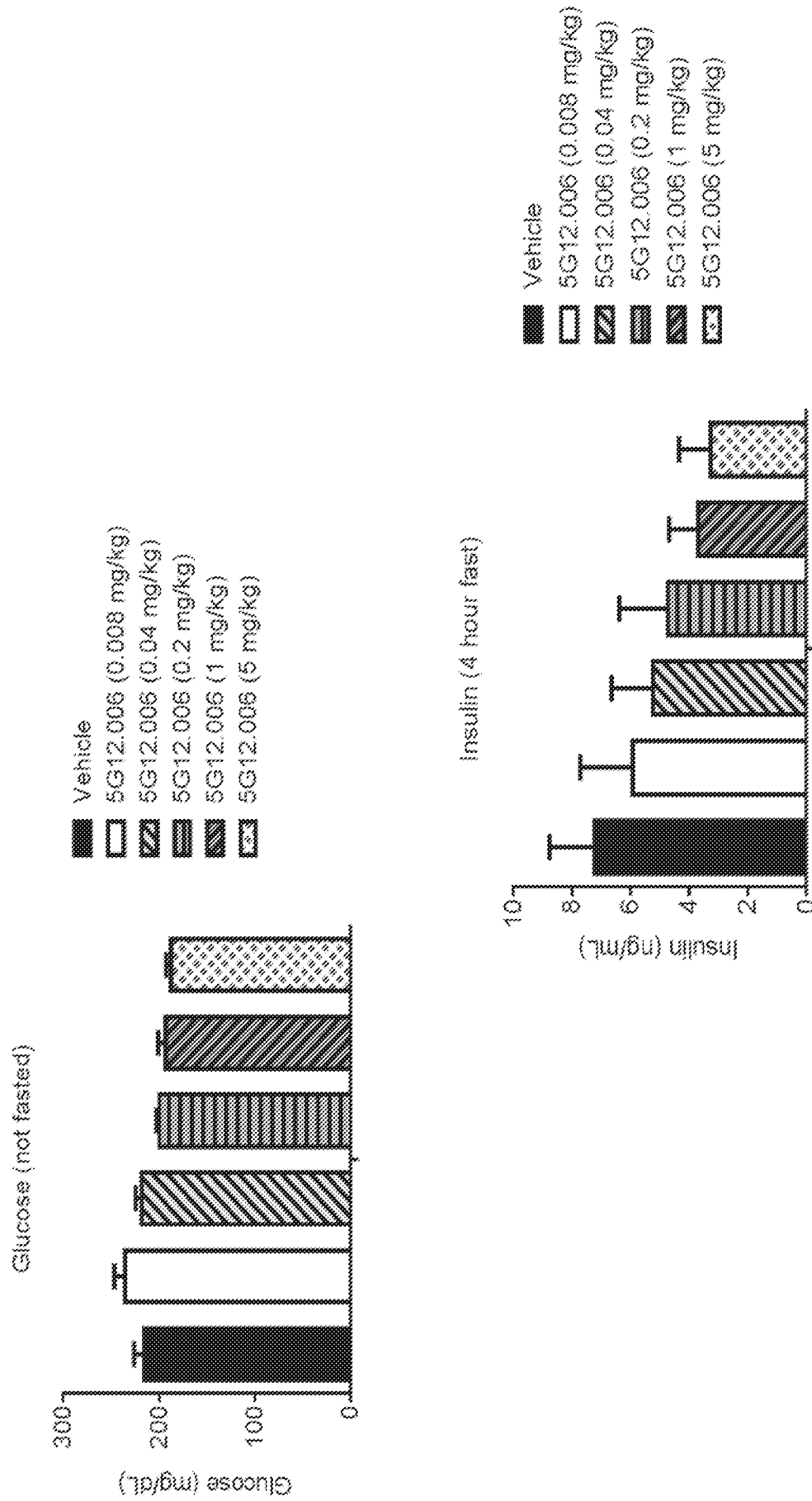


Fig. 21

GIPR Antibody 5G12.006 Results In Lower Liver Weights

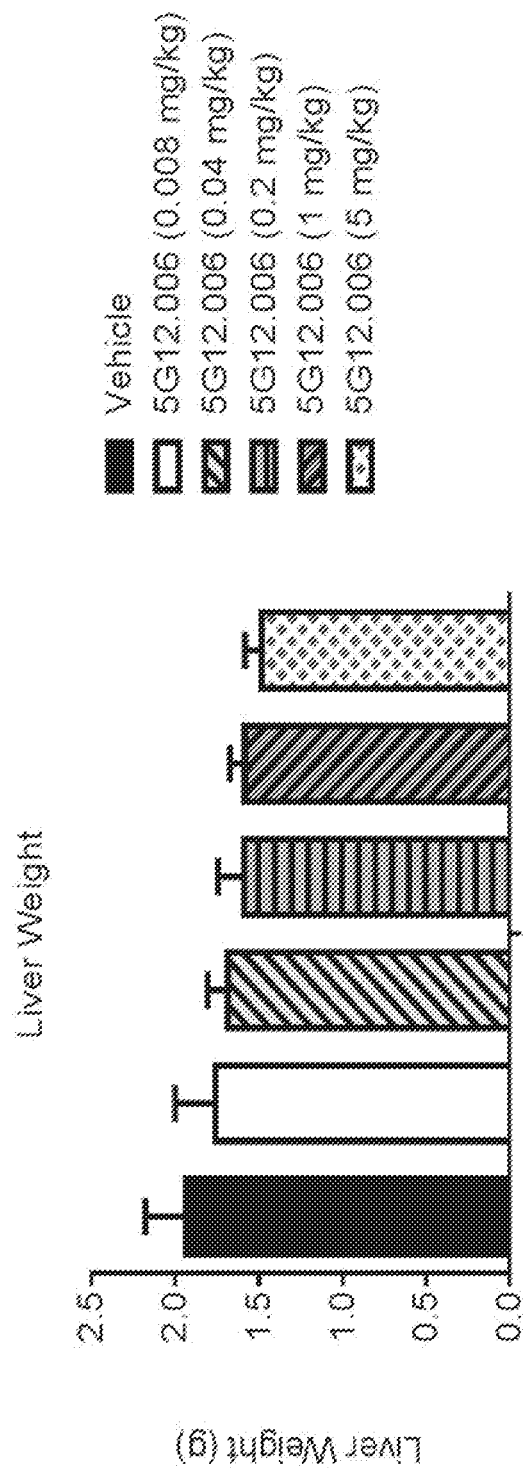


Fig. 22

GIPR Antibody 5G12.006 Results In Lower Total Cholesterol Levels

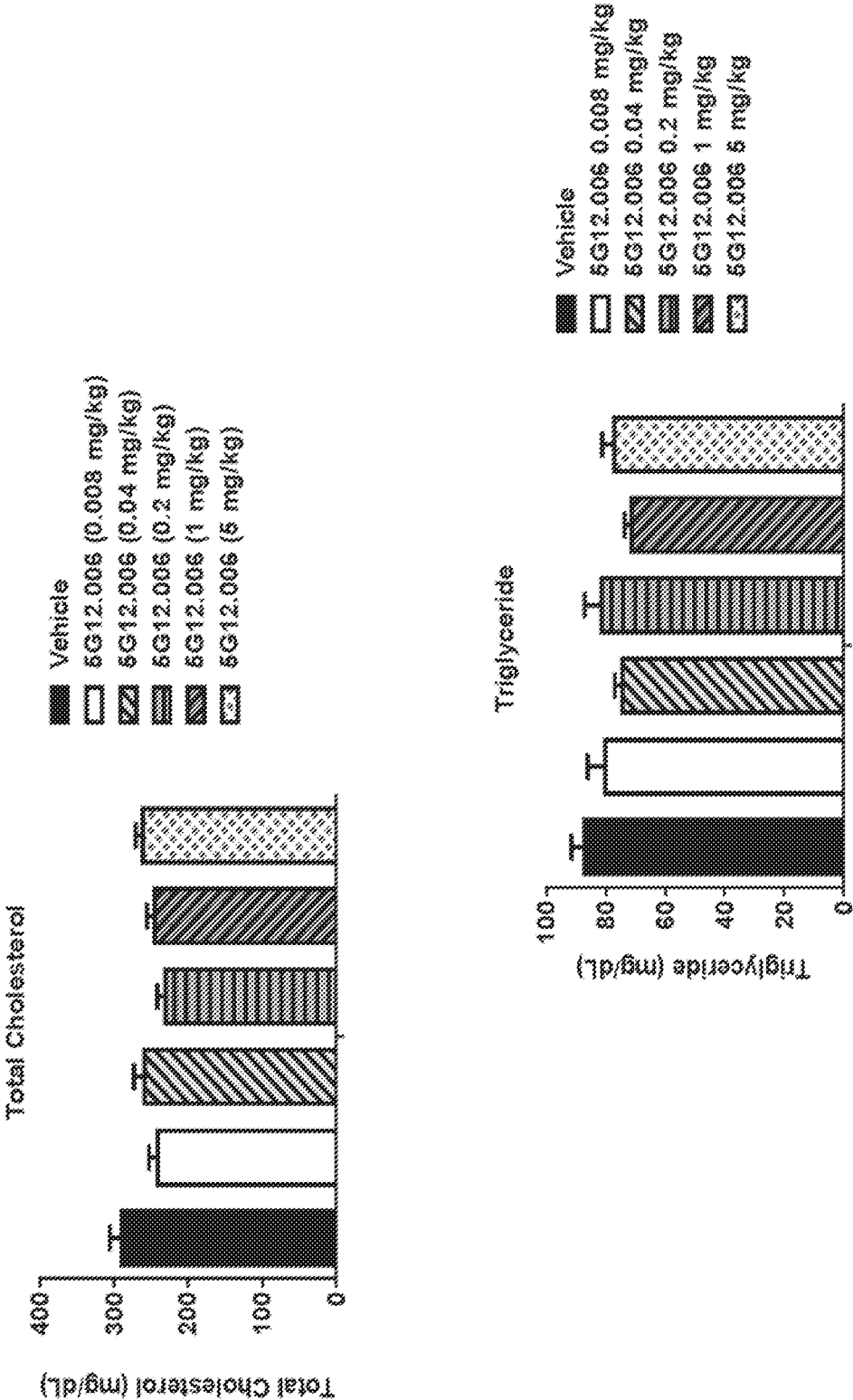
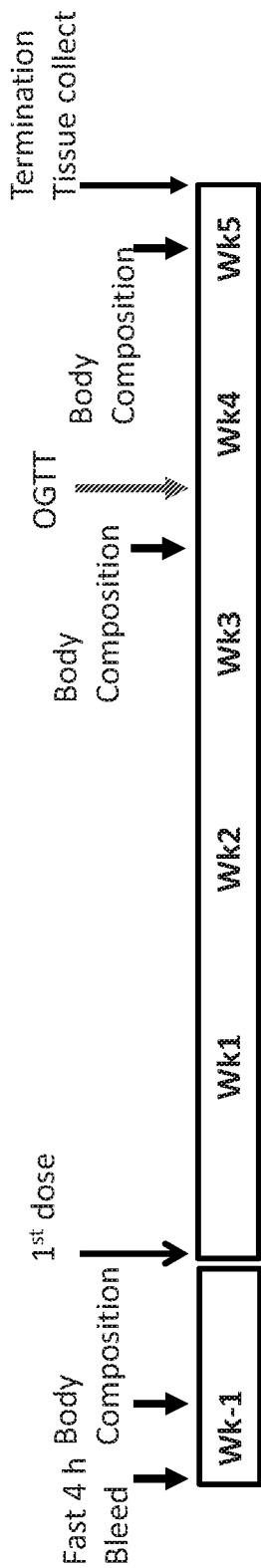


Fig. 23

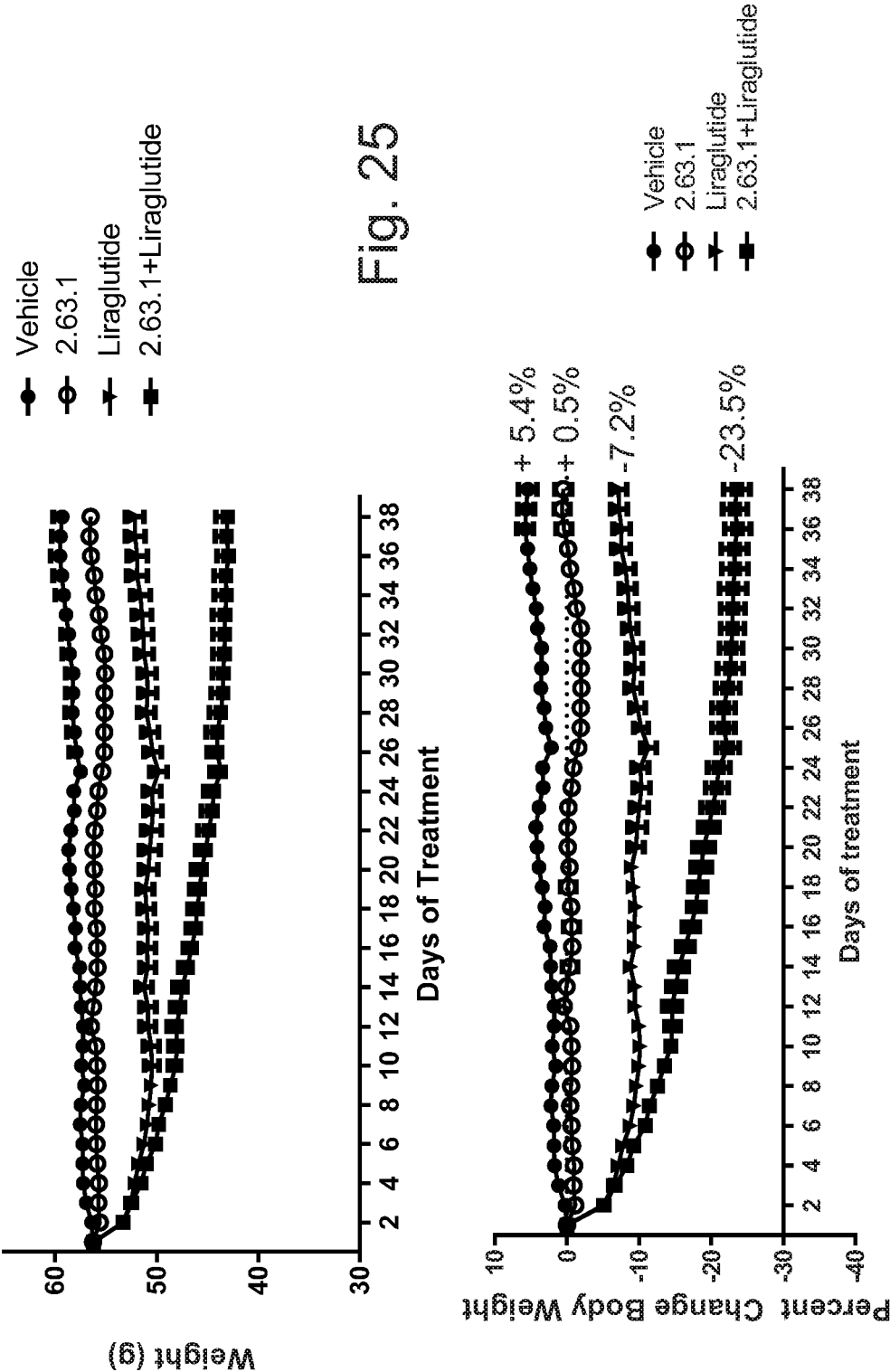
Treatment Of Mice With Anti-GIPR 2.63.1 In Combination With Liraglutide - Study Design

- Mice: Jackson Labs C57BL/6 DIO, 35 weeks of age (on high fat diet for 29 weeks) at study start
- Group and treatment, N=10/group, dose vol ume is 5 ml/kg, study duration is 5 weeks on treatment
 - A. Vehicle, daily
 - B. Anti-GIPR mAb 2.63.1, 30 mg/kg, twice a week
 - C. Liraglutide, 0.3 mg/kg, once a day
 - D. Anti-GIPR mAb 2.63.1 (30 mg/kg, twice a week) + Liraglutide (0.3 mg/kg, once a day)
- Procedures:
 - Day -10: fast 4 hours, body weight, glucose and serum analysis
 - Day -7 to day -1: Acclimation by dosing with vehicle daily for all groups
 - Day -6: Body composition
 - Day 1: Body weight, grouping and first dose
- Efficacy readout:
 - Body weight daily
 - Food intake
 - Body composition measurement at beginning and end
 - Glucose, insulin, OGTT and serum lipid levels at termination

Fig. 24



Body Weight Loss In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide



Significant Fat Mass Loss In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide

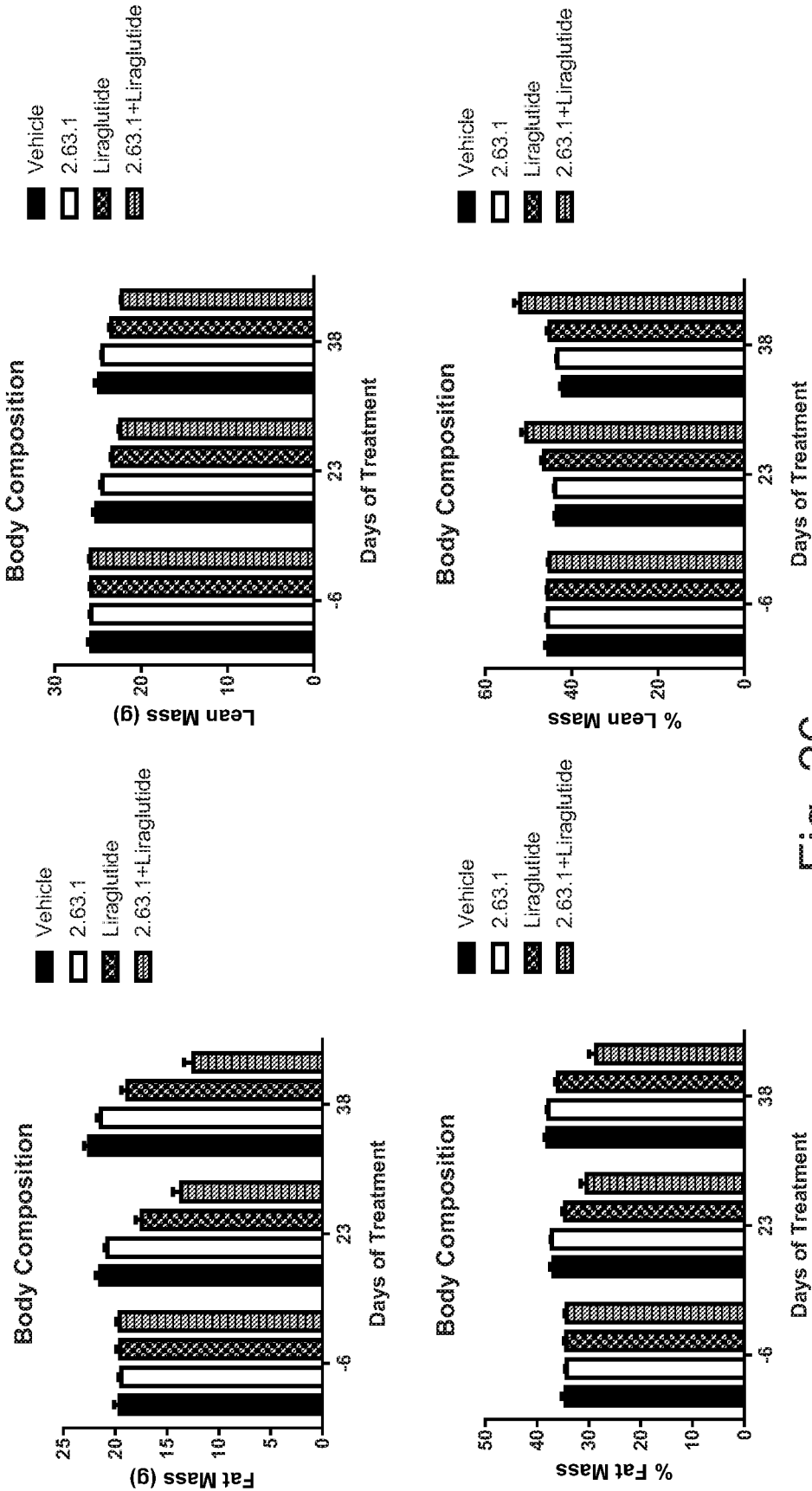
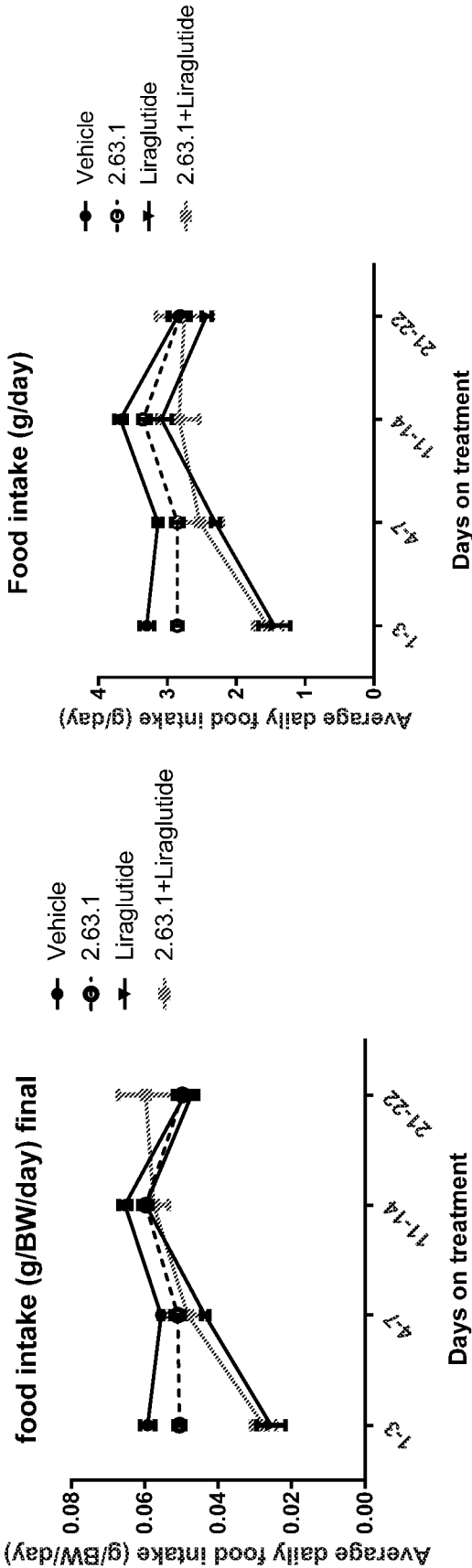


Fig. 26

Food Intake In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide



Note:
Food intake data is from the following numbers animals each group
Vehicle: N=6
2.63.1: N=8
Liraglutide: N=4
2.63.1 + Liraglutide: N=3

The other animals played with the food during some of the time points and food intake could not be accurately measured. These animals are not included.

Fig. 27

Liver, Epididymal Fat And Inguinal Fat Weight In Mice
Treated With Anti-GIPR 2.63.1 In Combination With
Liraglutide

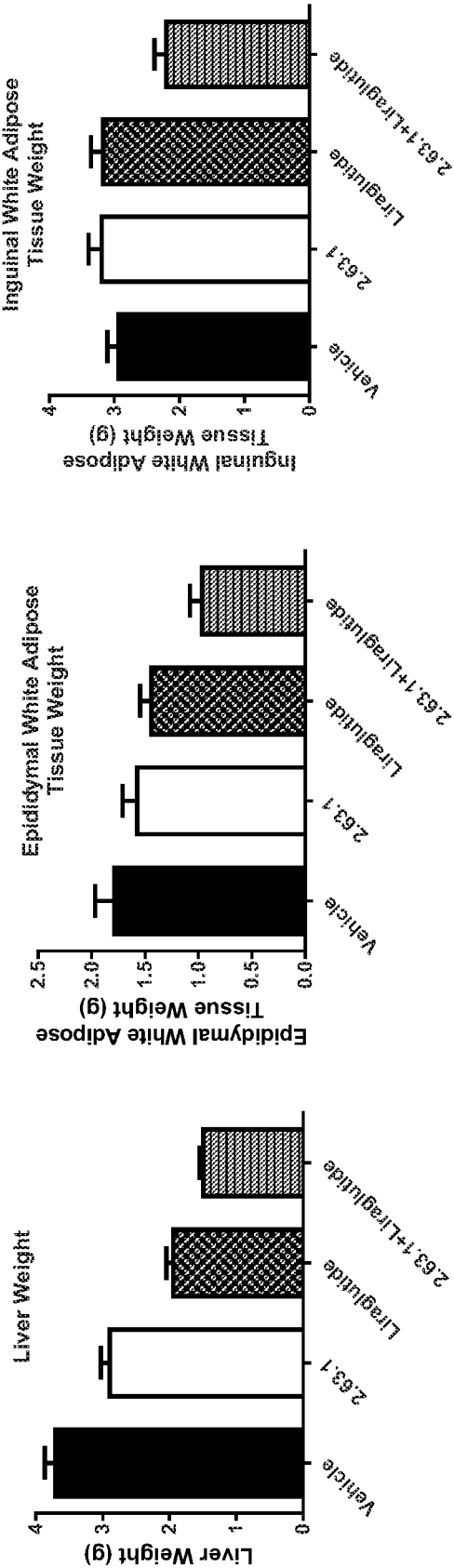


Fig. 28

Glucose Tolerance In Mice Treated With Anti-GIPR
2.63.1 In Combination With Liraglutide

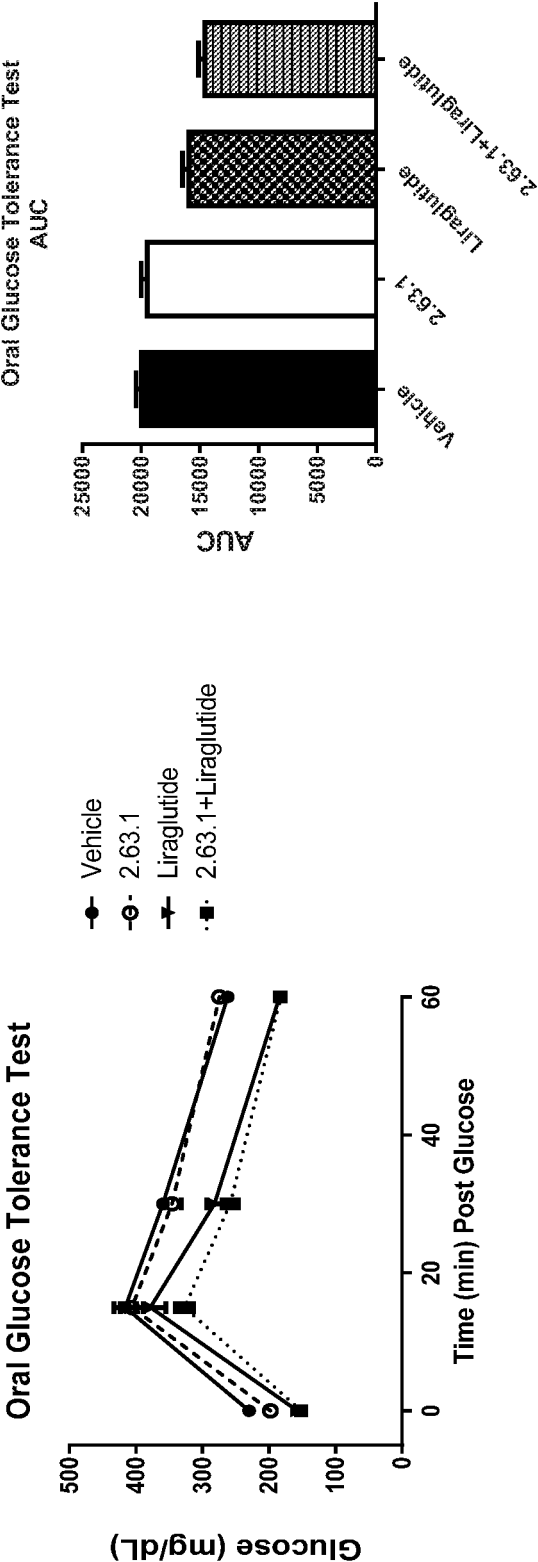


Fig. 29

Blood Glucose Levels In Mice Treated With Anti-GIPR

2.63.1 In Combination With Liraglutide

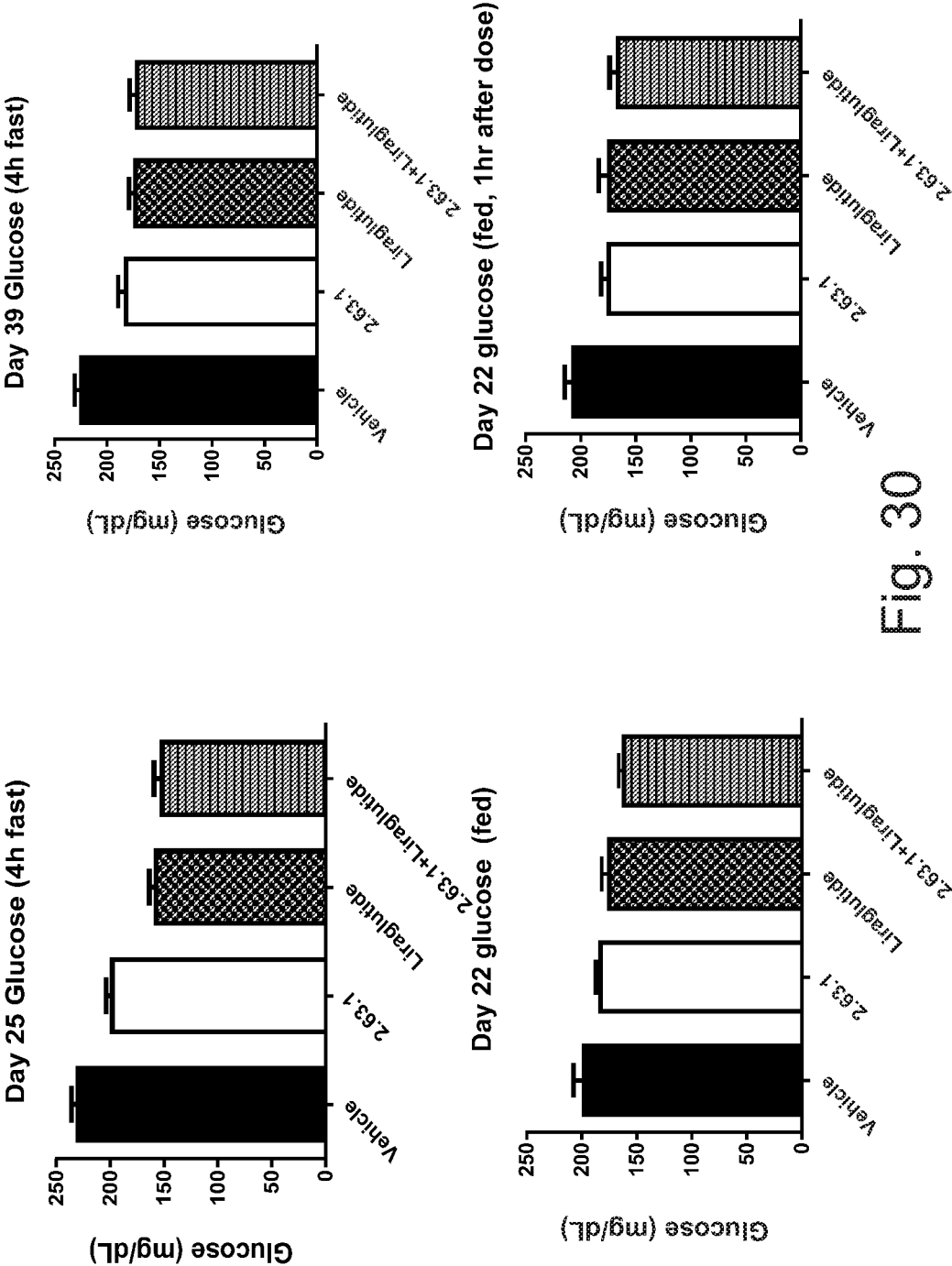


Fig. 30

Plasma Insulin Levels In Mice Treated With Anti-GIPR

2.63.1 In Combination With Liraglutide

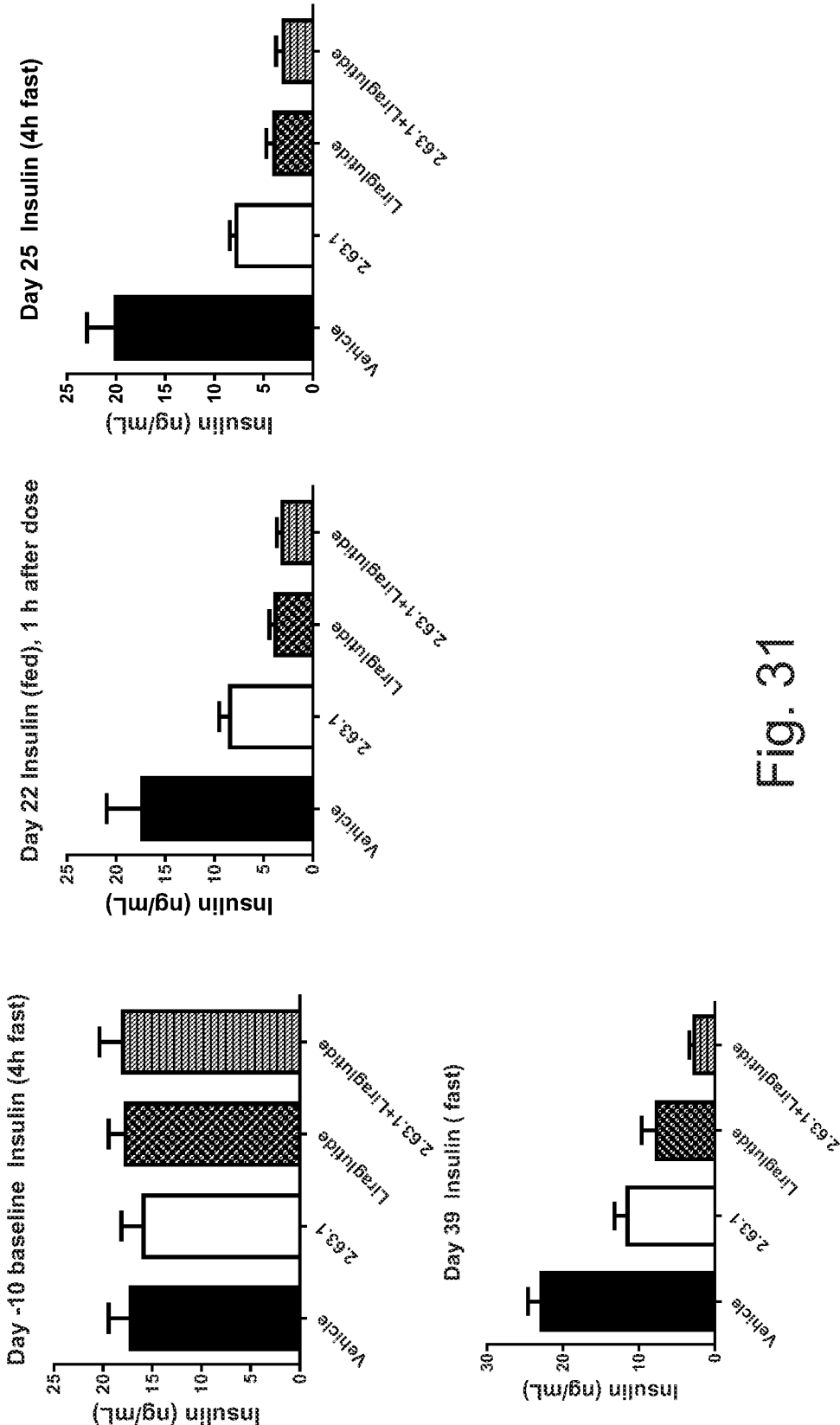


Fig. 31

Serum Total Cholesterol Levels In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide

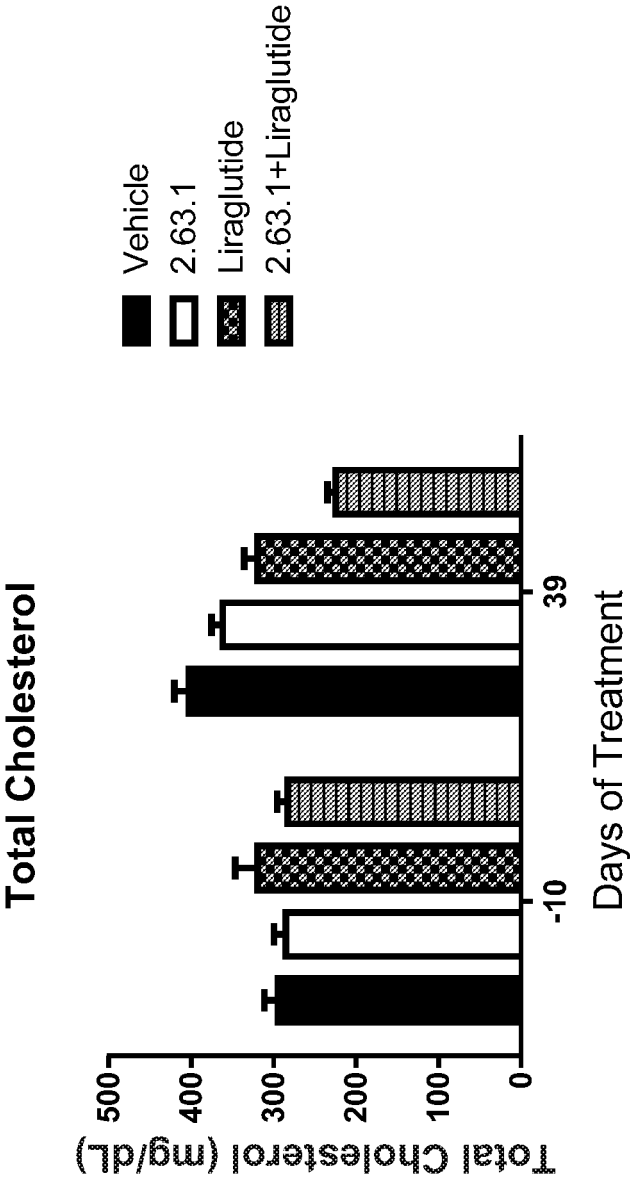


Fig. 32

Serum Leptin Level In Mice Treated With Anti-GIPR
2.63.1 In Combination With Liraglutide

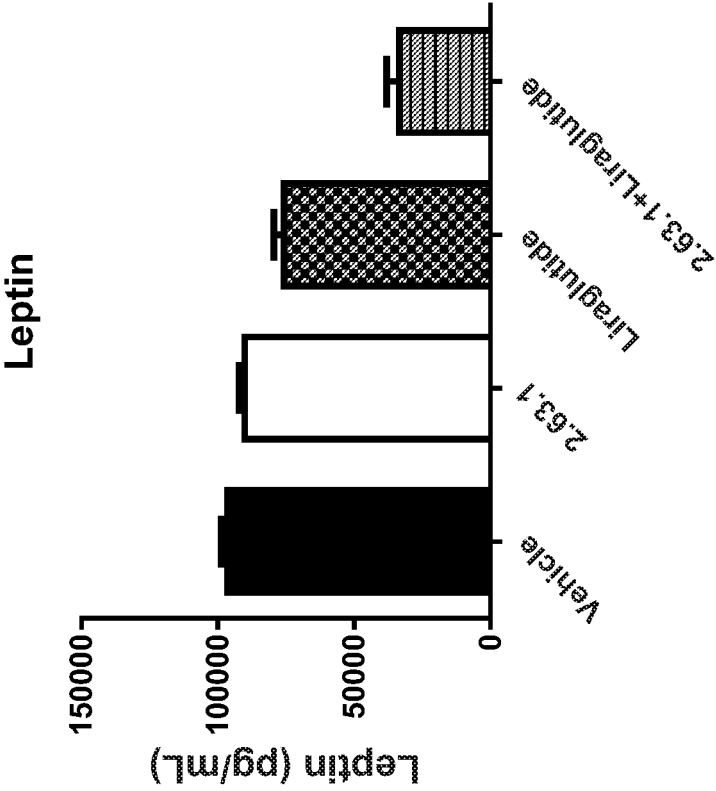


Fig. 33

Serum Triglyceride In Mice Treated With Anti-GIPR

2.63.1 In Combination With Liraglutide

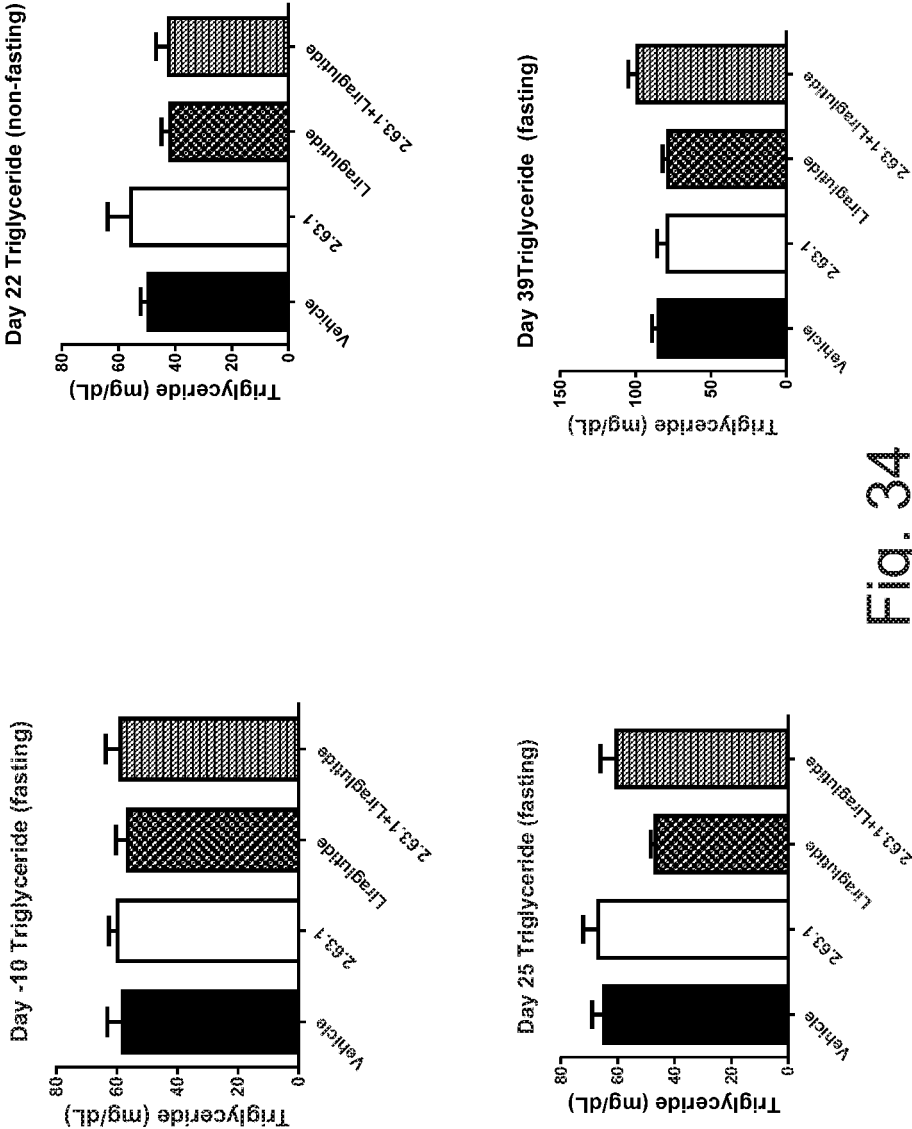


Fig. 34

Study In Mice Treated With Anti-GIPR 2.63.1 In Combination with Liraglutide, Dulaglutide Or Exendin IV

- Mice: Jackson Labs C57BL/6 DIO, 37 weeks of age (on high fat diet for 31 weeks) at study start
- Group and treatment: N=8/group, dose volume is 5 ml/kg
 - A. Vehicle
 - B. Anti-GIPR mAb 2.63.1 (25 mg/kg, once a week)
 - C. Dulaglutide (1mg/kg, twice a week)
 - D. Anti-GIPR mAb 2.63.1 (25 mg/kg, once a week) + Dulaglutide (1mg/kg, twice a week)
 - E. Liraglutide (0.3 mg/kg, once a day)
 - F. Anti-GIPR mAb 2.63.1 (25 mg/kg, once a week) + Liraglutide (0.3 mg/kg, once a day)
 - G. Exendin IV (0.01 mg/kg, once a day)
 - H. Anti-GIPR mAb 2.63.1 (25 mg/kg, once a week) + Exendin IV (0.01 mg/kg, once a day)
- Procedures:
 - Day -7 to day -1: Acclimation by dosing with vehicle daily for all groups. Body weight, glucose and serum (fast 4 h)
 - Day 1: Body weight, grouping and first dose
- Efficacy readout:
 - Body weight daily
 - Food intake
 - Body composition at beginning and end
 - Glucose, insulin, OGTT at day 23

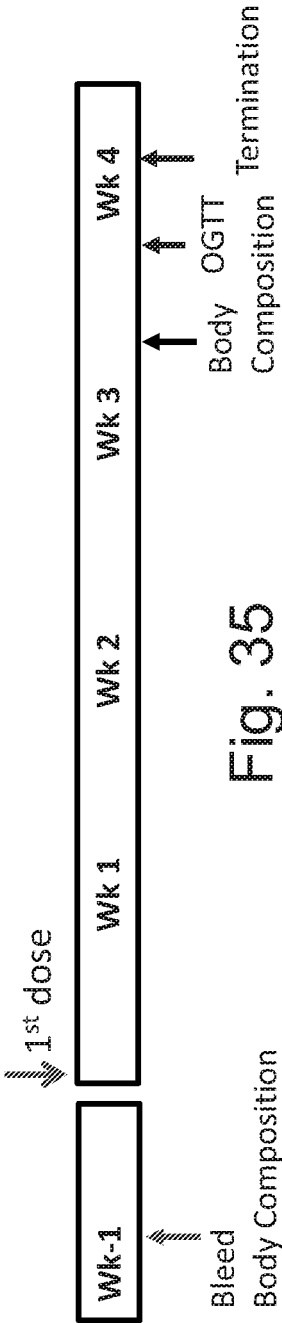


Fig. 35

Body Weight Loss In Mice Treated With Anti-GIPR
2.63.1 In Combination With Liraglutide, Dulaglutide
Or Exendin IV

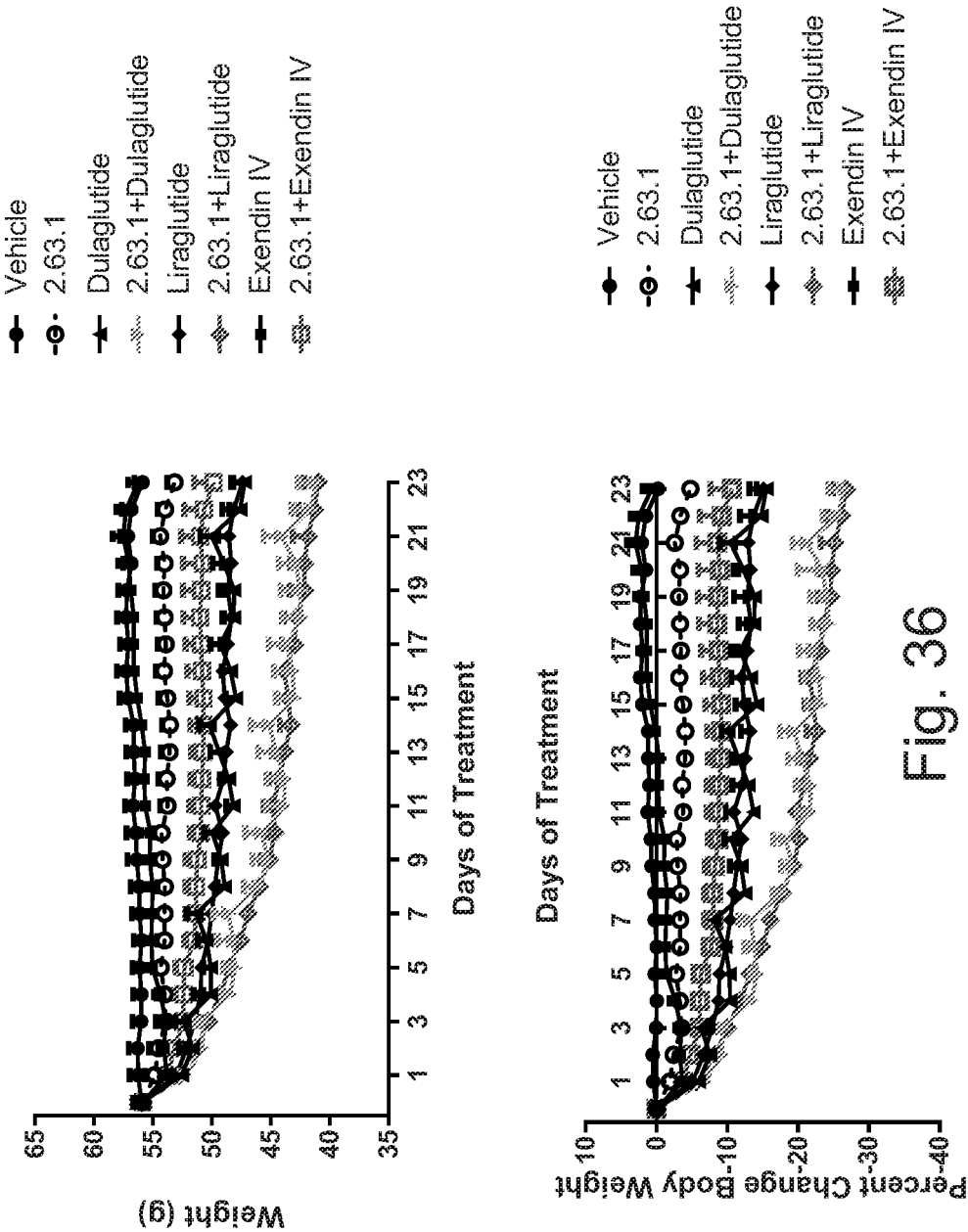


Fig. 36

Fat and Lean Mass In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide, Dulaglutide Or Exendin IV

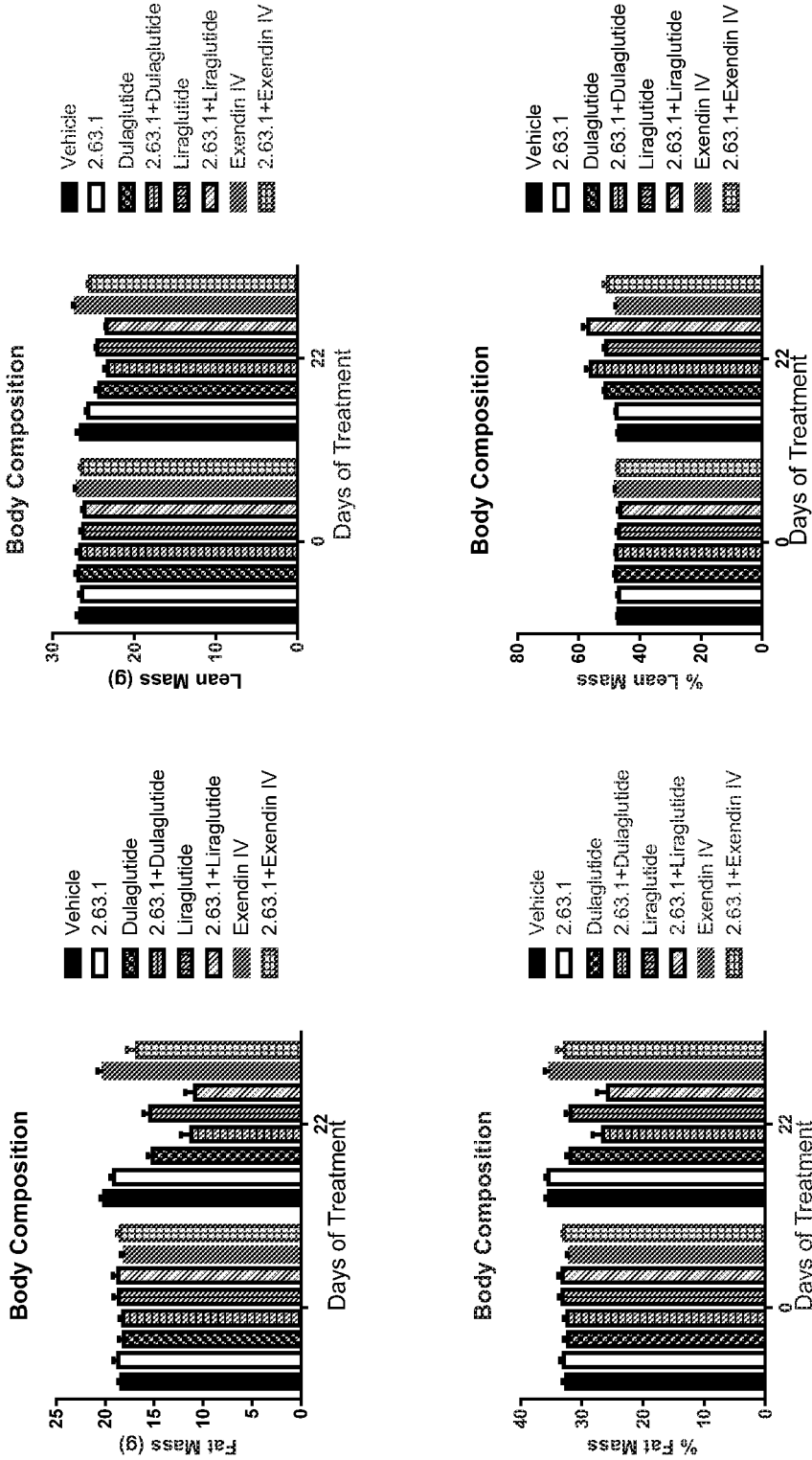
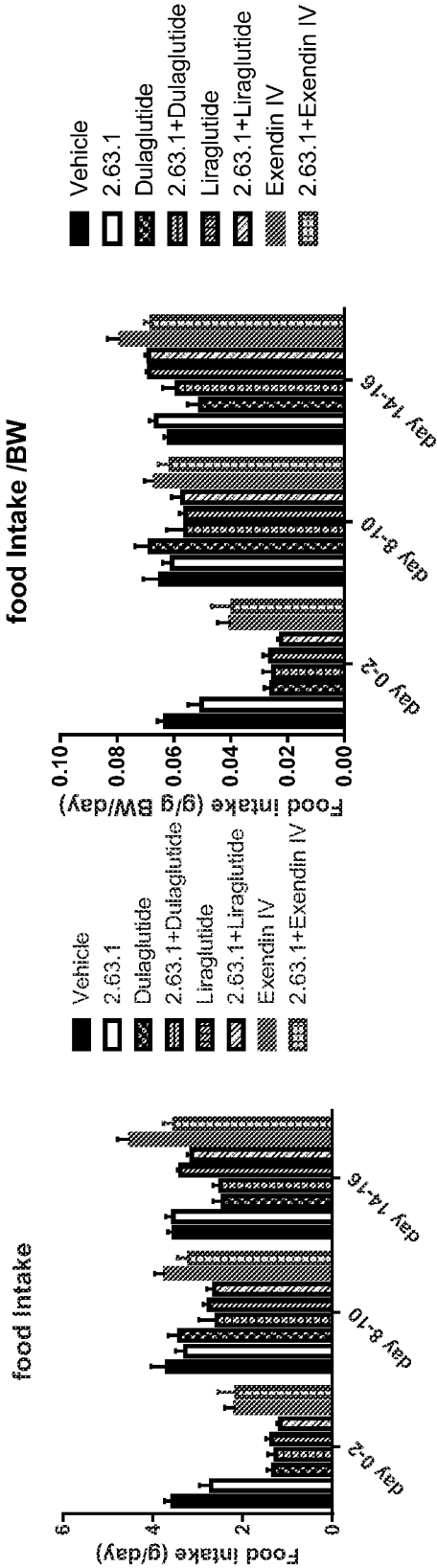


Fig. 37

Food Intake In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide, Dulaglutide Or Exendin IV



Food intake data is from the following numbers animals each group

- Vehicle: N=6
- 2.63.1: N=6
- Dulaglutide: N=8
- 2.63.1 + Dulaglutide: N=6
- Liraglutide: N=6
- 2.63.1 + Liraglutide: N=4
- Exendin IV: N=7
- 2.63.1 + Exendin IV: N=4

Fig. 38

Insulin, Glucose And Glucose Tolerance In Mice Treated With Anti-GIPR 2.63.1 In Combination With Liraglutide, Dulaglutide Or Exendin IV

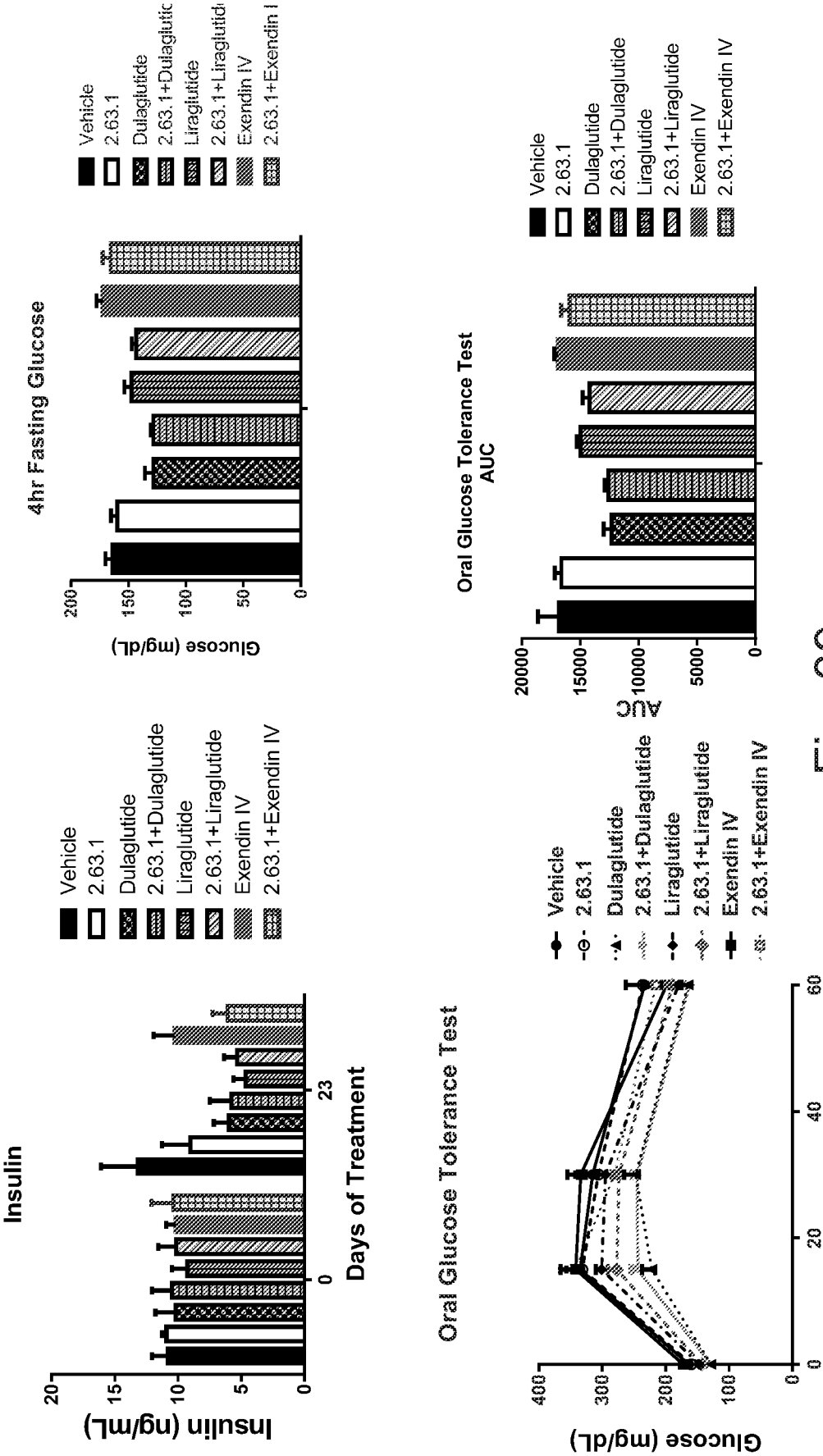


Fig. 39

Serum Total Cholesterol And Triglyceride In Mice
Treated With Anti-GIPR 2.63.1 In Combination With
Liraglutide, Dulaglutide Or Exendin IV

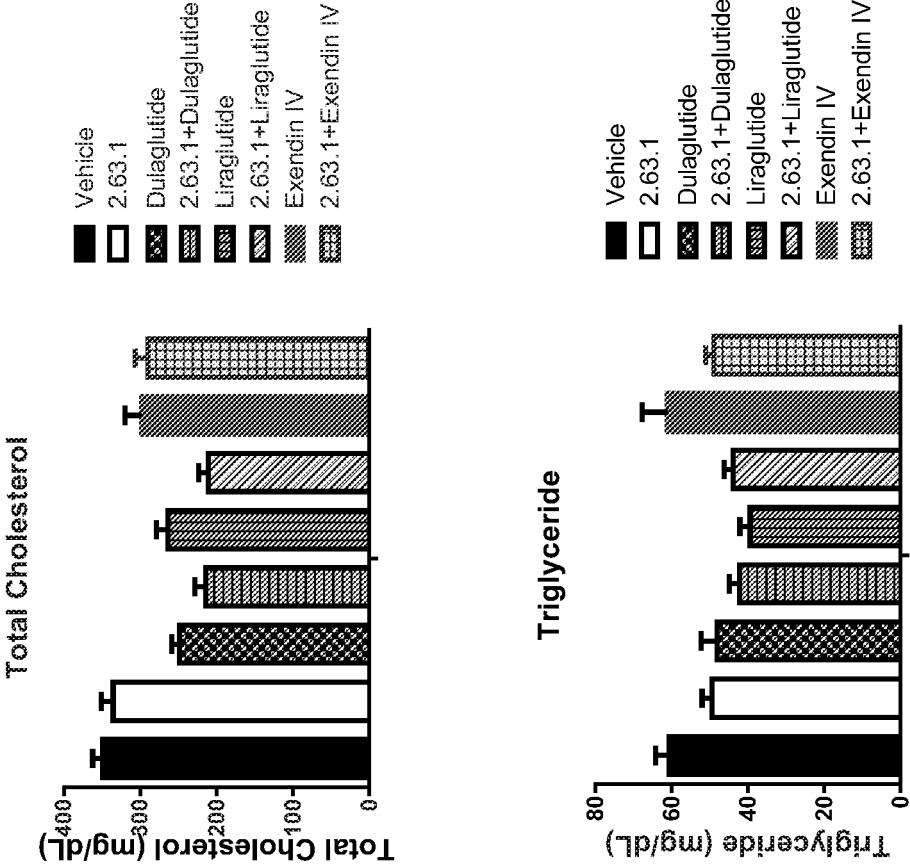


Fig. 40

Anti-GIPR Treatment In Mice Pre-treated To A GLP-1

Analog – Study Design

- Mice: Harlan C57BL/6 male DIO mice, 17 weeks of age (on high fat diet for 13 weeks) at study start
- Group and treatment, N=8/group, dose volume is 4ml/kg, study duration is 4 weeks (each phase is 2 weeks)

Phase 1		Phase 2
– A. Saline daily + Vehicle weekly		▶ Saline daily + Vehicle weekly
– B. Liraglutide 0.05mg/kg daily + Vehicle weekly		▶ Liraglutide 0.05mg/kg daily + Vehicle weekly
– C. Liraglutide 0.05mg/kg daily + Vehicle weekly		▶ Liraglutide 0.05mg/kg daily+ GIPR Ab 2.63.1 25mg/kg weekly
– D. Liraglutide 0.3mg/kg daily + Vehicle weekly		▶ Liraglutide 0.3mg/kg daily + Vehicle weekly
– E. Liraglutide 0.3mg/kg daily + Vehicle weekly		▶ Liraglutide 0.3mg/kg daily + GIPR Ab 2.63.1 1mg/kg weekly
– F. Liraglutide 0.3mg/kg daily + Vehicle weekly		▶ Liraglutide 0.3mg/kg daily + GIPR Ab 2.63.1 25mg/kg weekly
– G. Liraglutide 0.3mg/kg daily + Vehicle weekly		▶ Saline daily + Vehicle weekly
– H. Liraglutide 0.3mg/kg daily + Vehicle weekly		▶ Saline daily + GIPR Ab 2.63.1 25mg/kg weekly
– I. Liraglutide 0.3mg/kg daily + GIPR Ab 2.63.1 25mg/kg weekly		▶ Liraglutide 0.3mg/kg daily + GIPR Ab 2.63.1 25mg/kg weekly

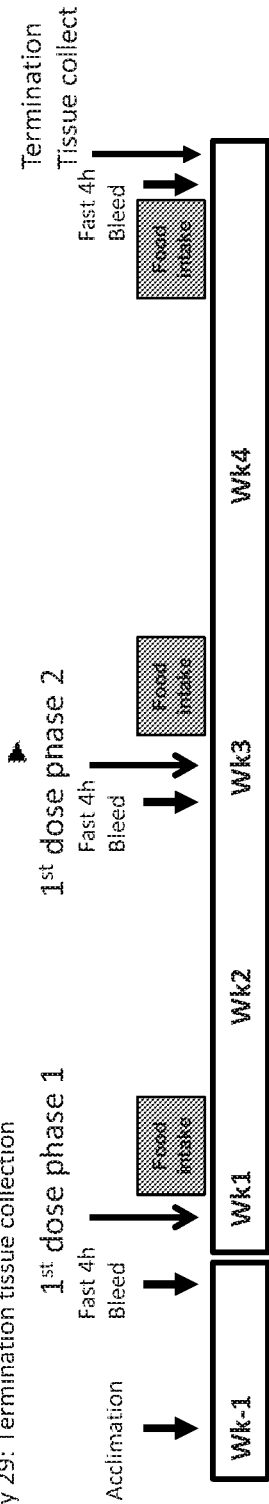
• Procedures:

- Day -8 to -1: dosing acclimation
- Day -1: 4h fasted blood collection, body weight
- Day -1: randomize on body weight
- Day 1: 1st dose phase 1
- Day 1-3; 15-17; 25-27: Food intake measured
- Day 14: 2wk 4hr fasted blood collection
- Day 15: 1st dose phase 2
- Day 28: 4hr fasted final blood collection
- Day 29: Termination tissue collection

• Endpoints:

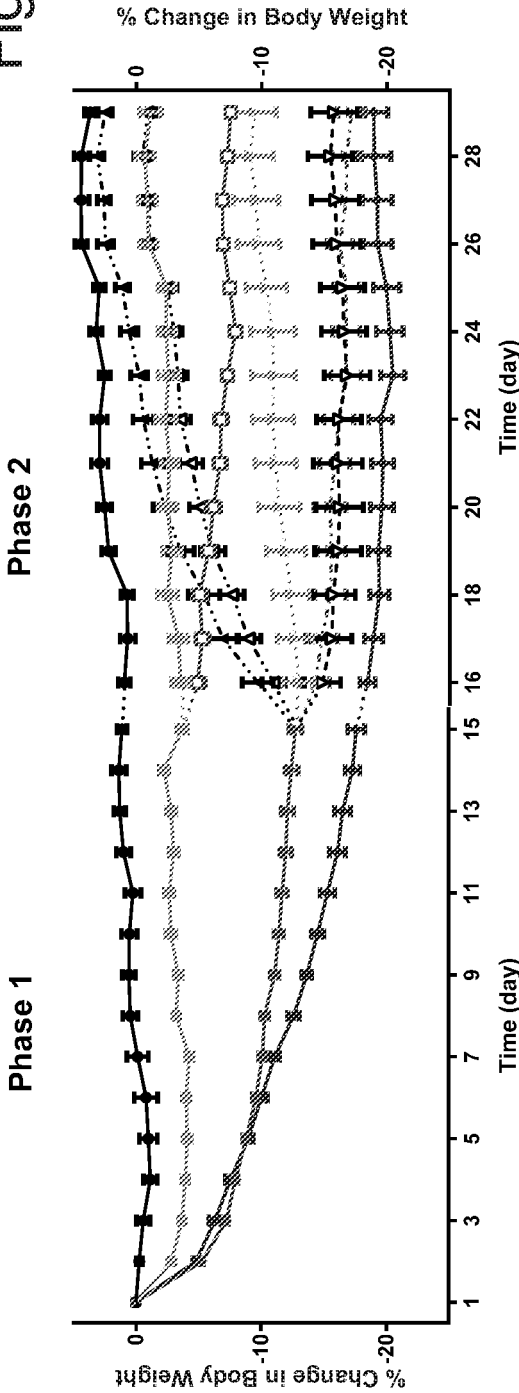
- Body weights
- Mouse hormones, liver enzymes, lipid levels, glucose and insulin
- Food Intake

Fig. 41



Body Weights – Combined Graphs

Fig. 42A



Phase 1

ANCOVA	
A vs B	***
A vs C	***
A vs D	***
B vs C	***
B vs D	***
C vs D	***
Day 1	***
Day 2	***
Day 3	***
Day 4	***
Day 5	***
Day 6	***
Day 7	***
Day 8	***
Day 9	***
Day 10	***
Day 11	***
Day 12	***
Day 13	***
Day 14	***
Day 15	***

Phase 1	
QD Lira / QW (GPR Ab)	QD Lira / QW (GPR Ab)
A. Saline / Vehicle n=8	B. Lira 0.05mg/kg / Vehicle n=16
C. Lira 0.3mg/kg / Vehicle n=40	D. Lira 0.3mg/kg / Vehicle n=40
E. Lira 0.3mg/kg / Vehicle n=40	F. Lira 0.3mg/kg / Vehicle n=40
G. Saline / Vehicle	H. Saline / Vehicle
I. Lira 0.3mg/kg / GPR Ab 25mg/kg n=8	J. Lira 0.3mg/kg / GPR Ab 25mg/kg n=8

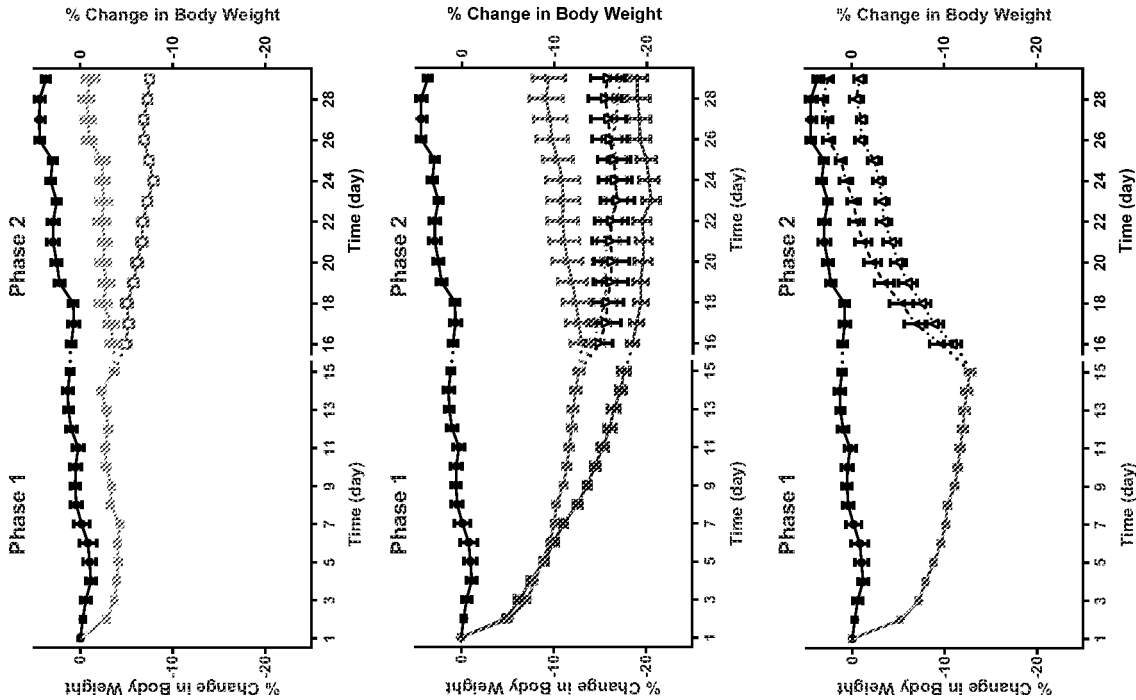
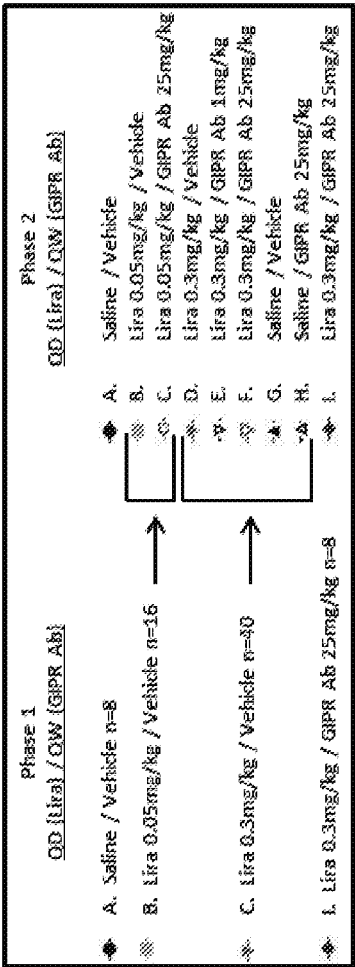
pvalues
p<0.05
p<0.01
p<0.001

Phase 2

ANCOVA	
A vs I	***
A vs J	***
B vs C	ns
B vs D	ns
B vs E	ns
B vs F	ns
C vs D	ns
C vs E	ns
C vs F	ns
D vs E	ns
D vs F	ns
E vs F	ns
Day 16	***
Day 17	***
Day 18	***
Day 19	***
Day 20	***
Day 21	***
Day 22	***
Day 23	***
Day 24	***
Day 25	***
Day 26	***
Day 27	***
Day 28	***
Day 29	***

Body Weights – Separated Graphs

Fig. 42B



p-values

* p<0.05

** p<0.01

*** p<0.001

Phase 1				Phase 2			
ANCOVA				ANCOVA			
A vs I	B vs C	D	I	B vs C	D vs E	F	G vs H
Day 1	***	***	***	ns	ns	ns	ns
2	***	***	***	ns	ns	ns	ns
3	***	***	***	ns	ns	ns	ns
4	***	***	***	ns	ns	ns	ns
5	*	***	***	ns	ns	ns	ns
6	***	***	***	ns	ns	ns	ns
7	***	***	***	ns	ns	ns	ns
8	***	***	***	ns	ns	*	ns
9	***	***	***	ns	ns	*	ns
10	***	***	***	ns	ns	*	ns
11	***	***	***	*	ns	*	ns
12	***	***	***	*	ns	*	ns
13	***	***	***	*	ns	*	ns
14	***	***	***	*	ns	*	ns
15	***	***	***	*	ns	*	ns
Day 16	***	***	***	ns	ns	ns	ns
17	***	***	***	ns	ns	ns	ns
18	***	***	***	ns	ns	ns	ns
19	***	***	***	ns	ns	ns	ns
20	***	***	***	ns	ns	ns	ns
21	***	***	***	ns	ns	ns	ns
22	***	***	***	ns	ns	*	ns
23	***	***	***	ns	ns	*	ns
24	***	***	***	ns	ns	*	ns
25	***	***	***	ns	ns	*	ns
26	***	***	***	*	ns	*	ns
27	***	***	***	*	ns	*	ns
28	***	***	***	*	ns	*	ns
29	***	***	***	*	ns	*	ns

Food Intake

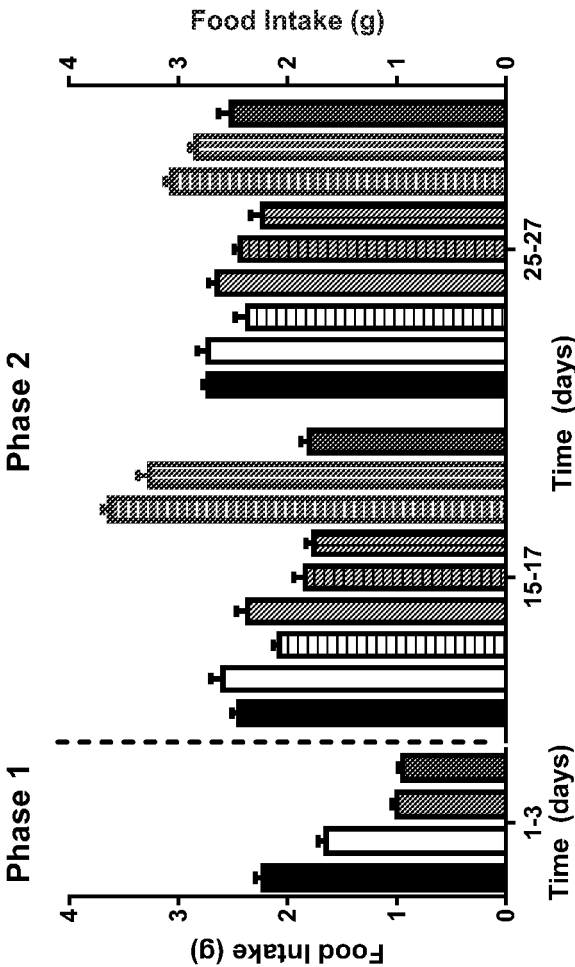
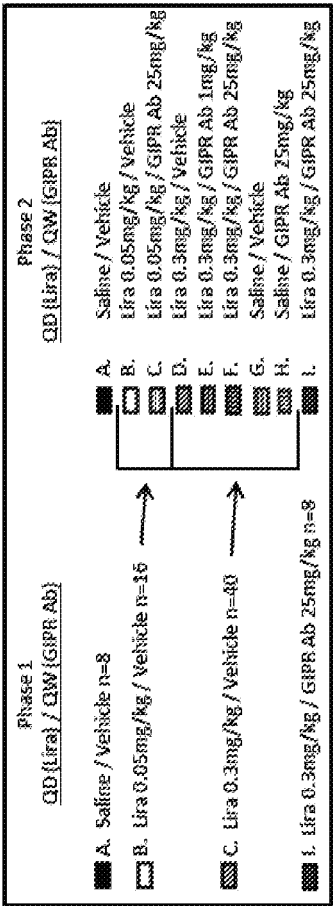
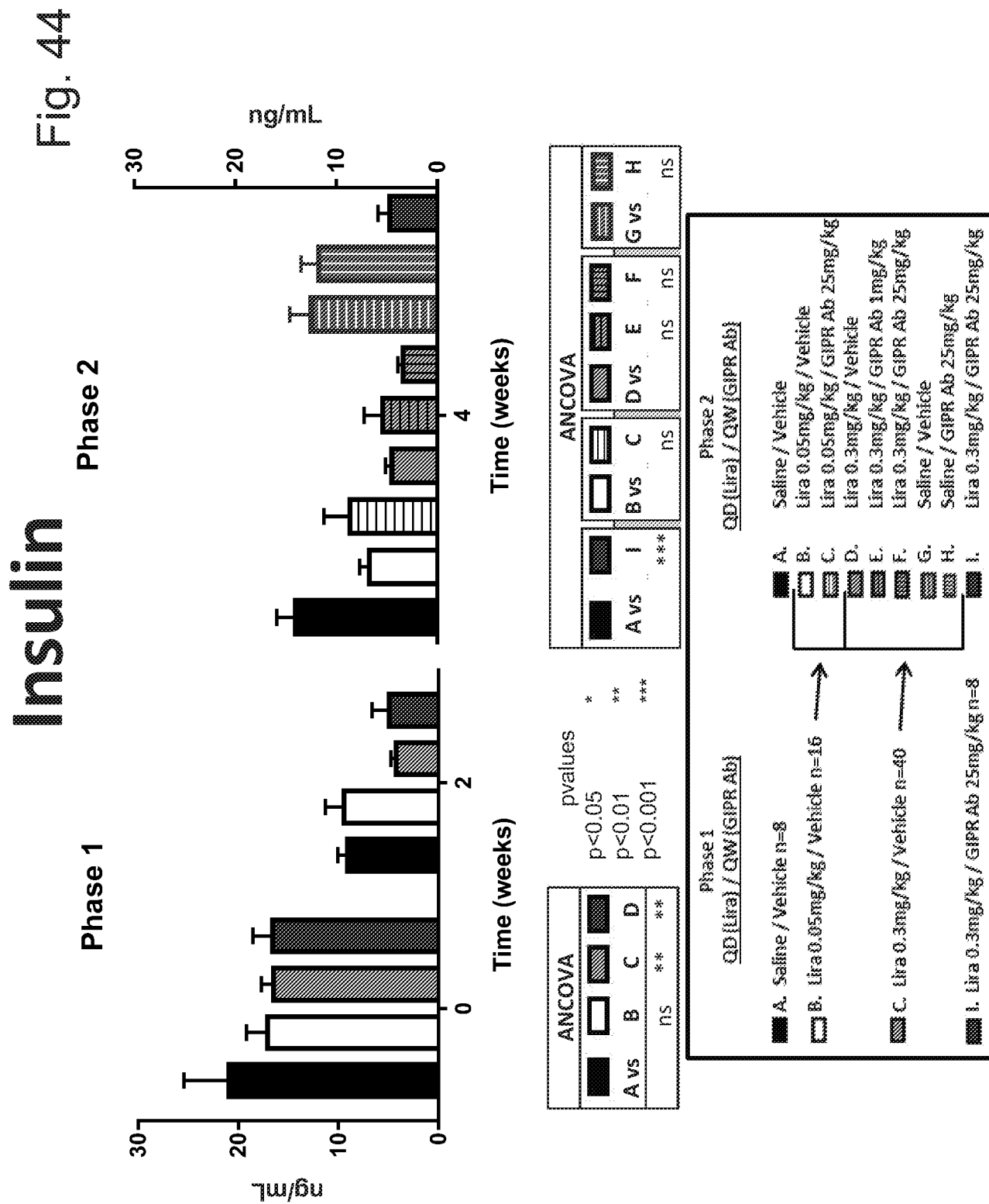


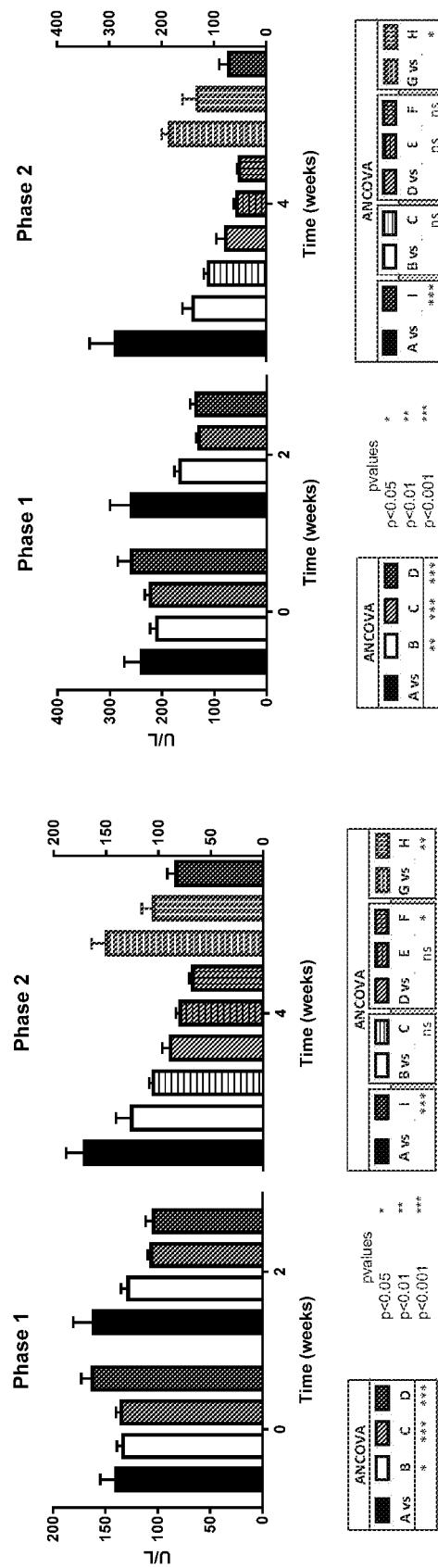
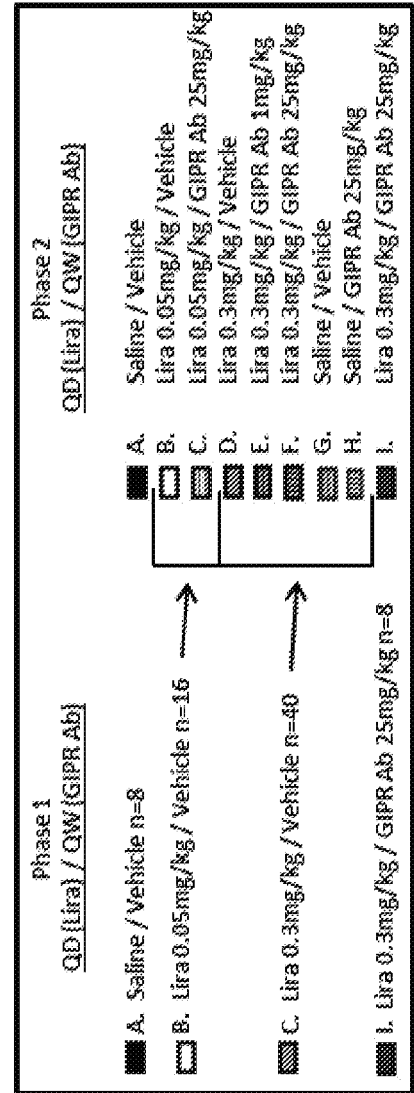
Fig. 43



Phase 1		Phase 2	
ANCOVA		ANCOVA	
A vs I	***	B vs C	***
15-17	***	D vs E	***
25-27	ns	F vs H	***
pvalues		pvalues	
p<0.05		p<0.05	
p<0.01		p<0.01	
p<0.001		p<0.001	



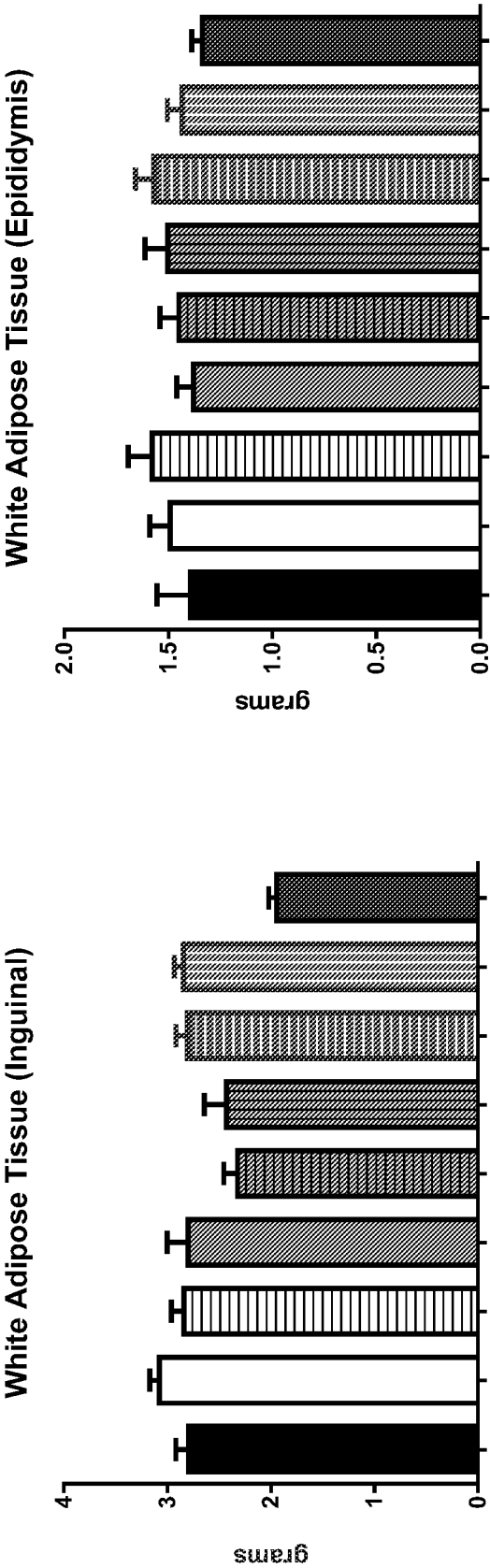
ALT



45A
F. 9



Tissue Weights



ANOVA

Comparison	p-value
A vs I	***
B vs C	ns
D vs E	*
F vs H	ns

p-values

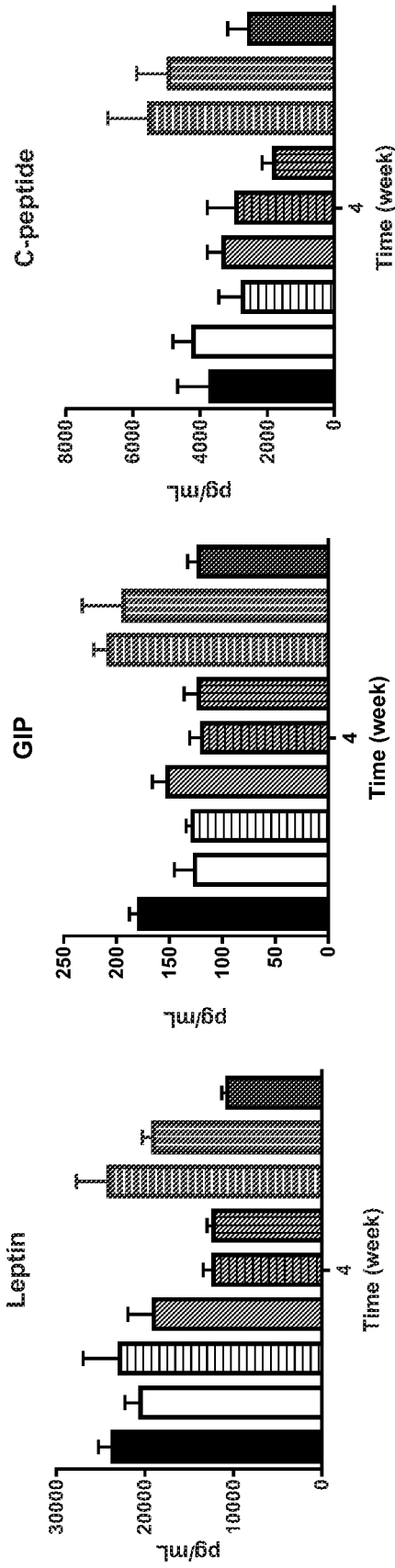
- p<0.05 *
- p<0.01 **
- p<0.001 ***

No significant difference comparing A vs I, B vs C, D vs E, F vs H, G vs H

Phase 1		Phase 2	
QD (Lira) / QW (GIPR)		QD (Lira) / QW (GIPR)	
A. Saline / Vehicle		A. Saline / Vehicle	
B. Lira 0.05mg/kg / Vehicle		B. Lira 0.05mg/kg / Vehicle	
C. Lira 0.05mg/kg / Vehicle		C. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
D. Lira 0.3mg/kg / Vehicle		D. Lira 0.3mg/kg / Vehicle	
E. Lira 0.3mg/kg / Vehicle		E. Lira 0.3mg/kg / GIPR Ab 1mg/kg	
F. Lira 0.3mg/kg / Vehicle		F. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
G. Lira 0.3mg/kg / Vehicle		G. Saline / Vehicle	
H. Lira 0.3mg/kg / Vehicle		H. Saline / GIPR Ab 25mg/kg	
I. Lira 0.3mg/kg / GIPR Ab 25mg/kg		I. Lira 0.3mg/kg / GIPR Ab 25mg/kg	

Fig. 46

Plasma Hormones



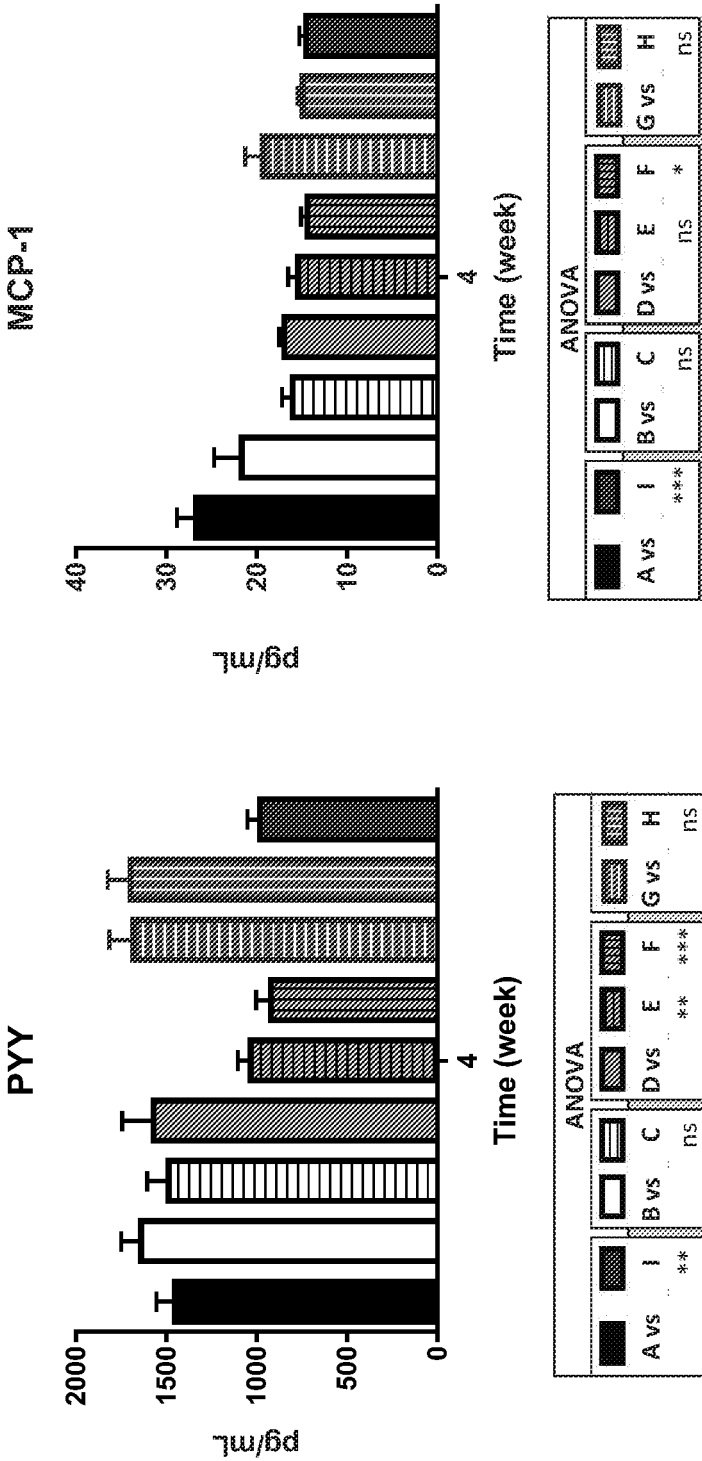
ANOVA			
A vs I	B vs C	D vs E	F vs H
***	ns	ns	ns

No significant differences comparing A vs I, B vs C, D vs E+F, G vs H

Phase 1		Phase 2	
QD (Lira) / QW (GIPR)		QD (Lira) / QW (GIPR)	
A. Saline / Vehicle		A. Saline / Vehicle	
B. Lira 0.05mg/kg / Vehicle		B. Lira 0.05mg/kg / Vehicle	
C. Lira 0.05mg/kg / Vehicle		C. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
D. Lira 0.3mg/kg / Vehicle		D. Lira 0.3mg/kg / Vehicle	
E. Lira 0.3mg/kg / Vehicle		E. Lira 0.3mg/kg / GIPR Ab 1mg/kg	
F. Lira 0.3mg/kg / Vehicle		F. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
G. Lira 0.3mg/kg / Vehicle		G. Saline / Vehicle	
H. Lira 0.3mg/kg / Vehicle		H. Saline / GIPR Ab 25mg/kg	
I. Lira 0.3mg/kg / GIPR Ab 25mg/kg		I. Lira 0.3mg/kg / GIPR Ab 25mg/kg	

Fig. 47A

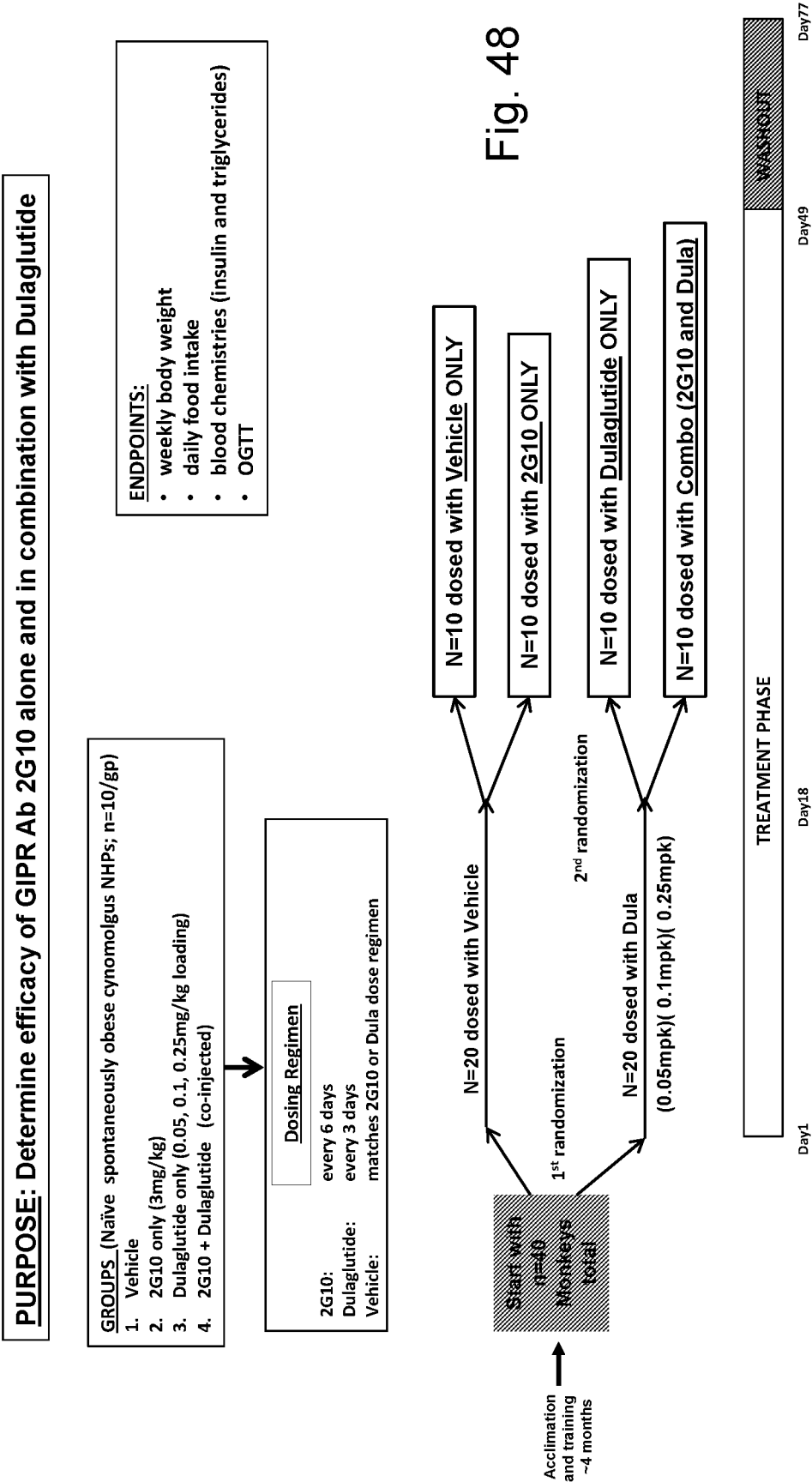
Plasma Hormones



Phase 1		Phase 2	
QD (Lira) / QW (GIPR)		QD (Lira) / QW (GIPR)	
A. Saline / Vehicle		A. Saline / Vehicle	
B. Lira 0.05mg/kg / Vehicle		B. Lira 0.05mg/kg / Vehicle	
C. Lira 0.05mg/kg / GIPR Ab 25mg/kg		C. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
D. Lira 0.3mg/kg / Vehicle		D. Lira 0.3mg/kg / Vehicle	
E. Lira 0.3mg/kg / GIPR Ab 1mg/kg		E. Lira 0.3mg/kg / GIPR Ab 1mg/kg	
F. Lira 0.3mg/kg / GIPR Ab 25mg/kg		F. Lira 0.05mg/kg / GIPR Ab 25mg/kg	
G. Lira 0.3mg/kg / Vehicle		G. Saline / Vehicle	
H. Lira 0.3mg/kg / Vehicle		H. Saline / GIPR Ab 25mg/kg	
I. Lira 0.3mg/kg / GIPR Ab 25mg/kg		I. Lira 0.3mg/kg / GIPR Ab 25mg/kg	

Fig. 47B

GIPR Ab chronic study design in spontaneously obese cynomolgus monkeys



2G10 causes body weight reduction in spontaneous obese cynomolgus monkeys with or without Dulaglutide

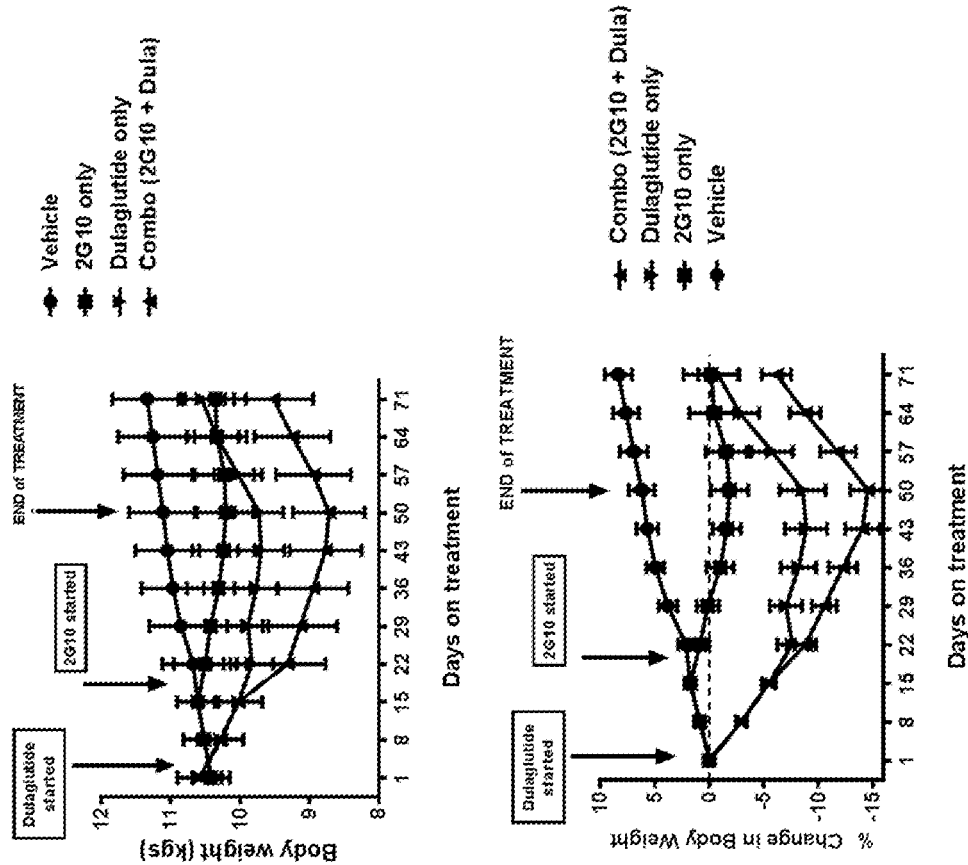


Fig. 49

2G10 alone causes body weight reduction in spontaneously obese cynomolgus monkeys (baseline reinitiated at day 15 prior starting 2G10 treatment)

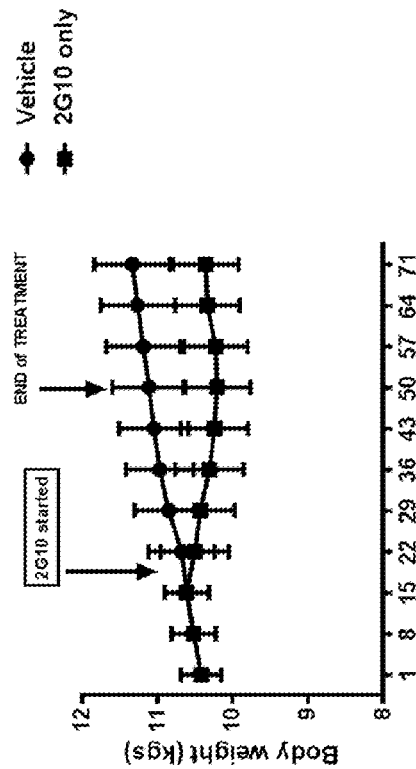
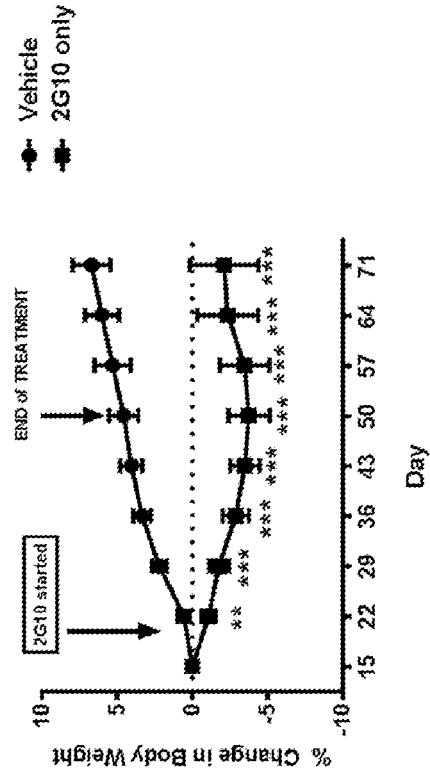
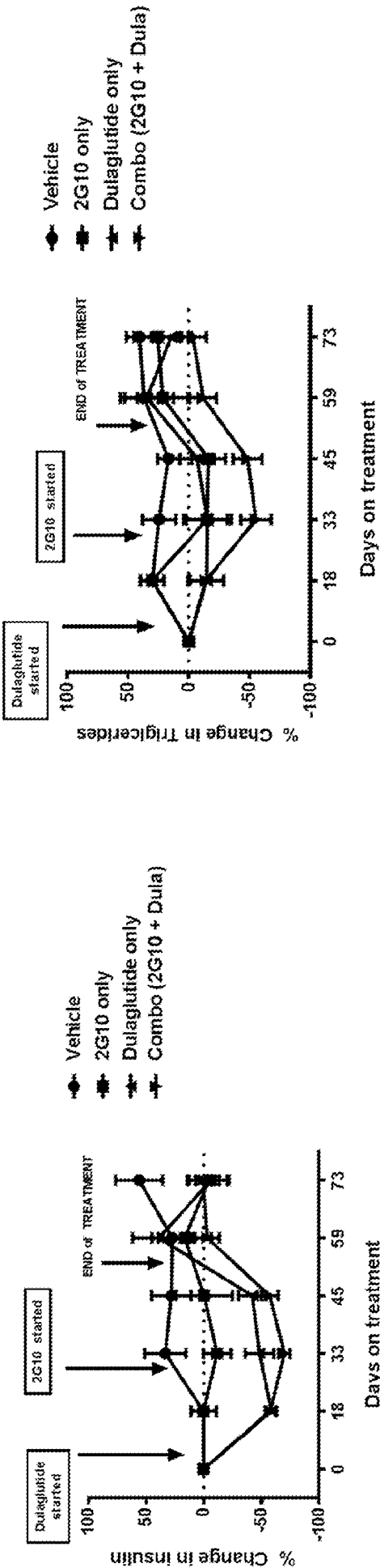


Fig. 50



2G10 prevents increase in insulin and reduces triglycerides levels with or without Dulaglutide in overnight fasted spontaneously obese cynomolgus monkeys (% change from baseline)



Statistical analysis not performed on this data set

Statistical analysis not performed on this data set

Fig. 51

2G10 prevents increase in insulin levels and reduces triglycerides levels with or without Dulaglutide in overnight fasted spontaneously obese cynomolgus monkeys (raw data) post treatment phase (day 45)

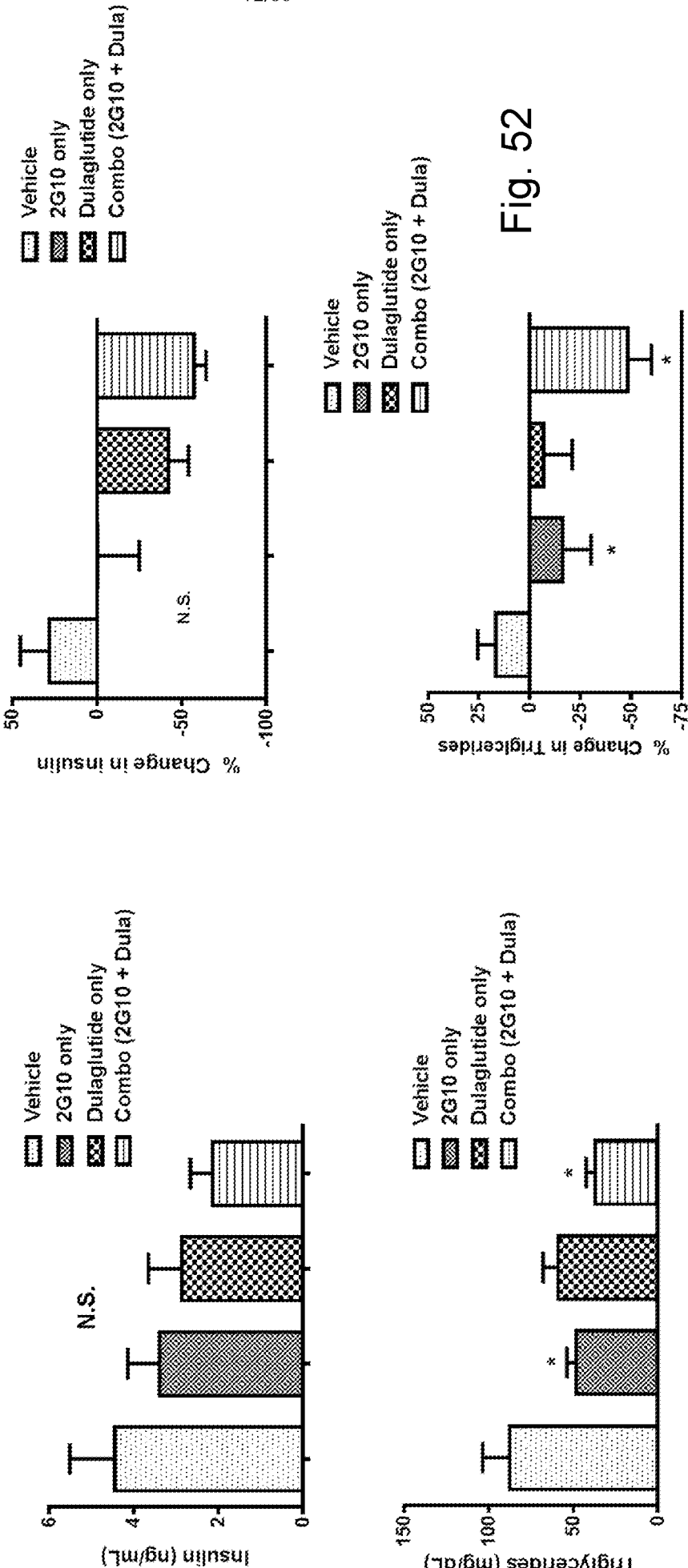


Fig. 52

2G10 did not worsen OGTT in overnight fasted spontaneously obese cynomolgus monkeys with or without Dulaglutide post treatment phase (day 49)

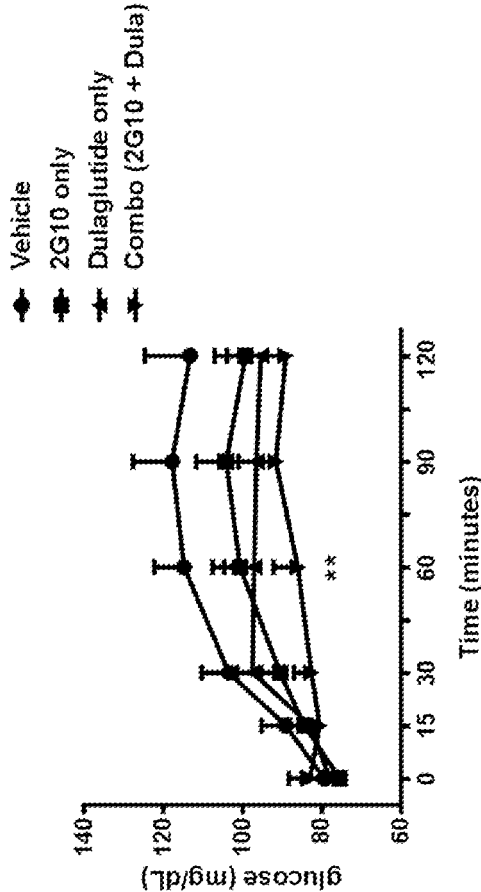
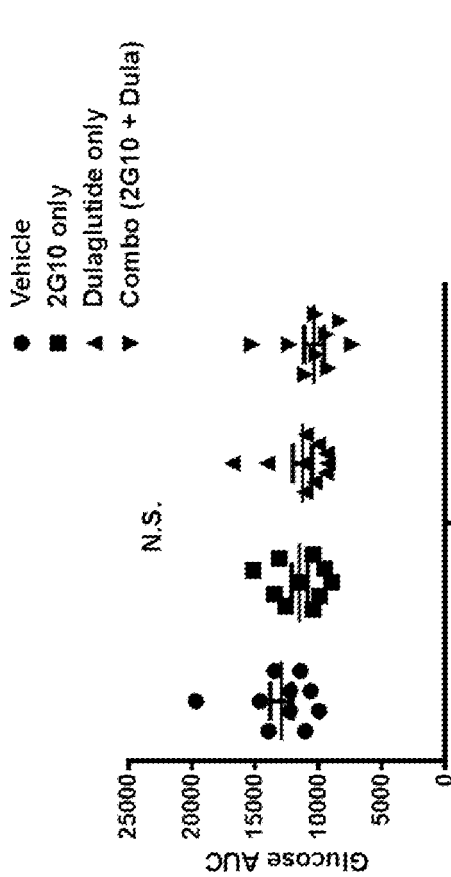
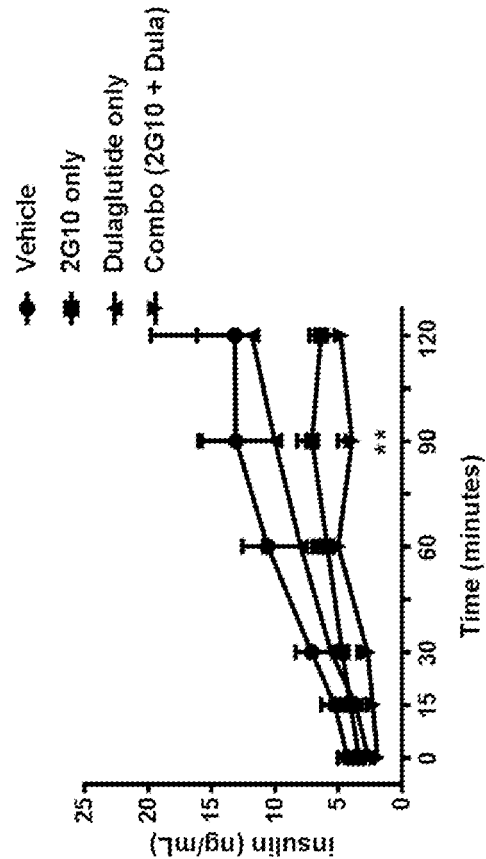
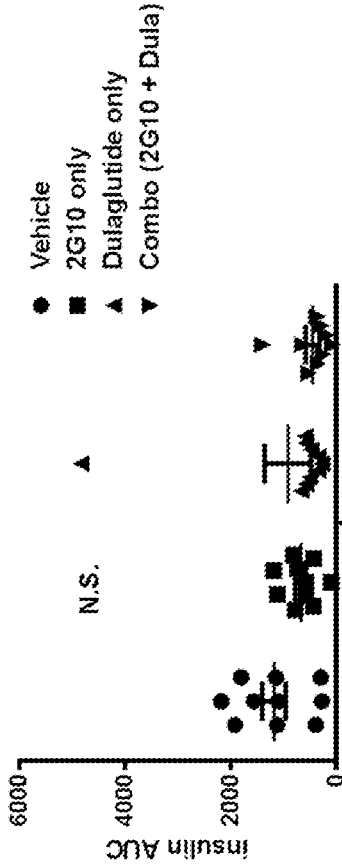


Fig. 53



2G10 had no effects on total cholesterol, LDL-C and HDL-C levels in overnight fasted spontaneously obese cynomolgus monkeys post treatment phase (day 45)

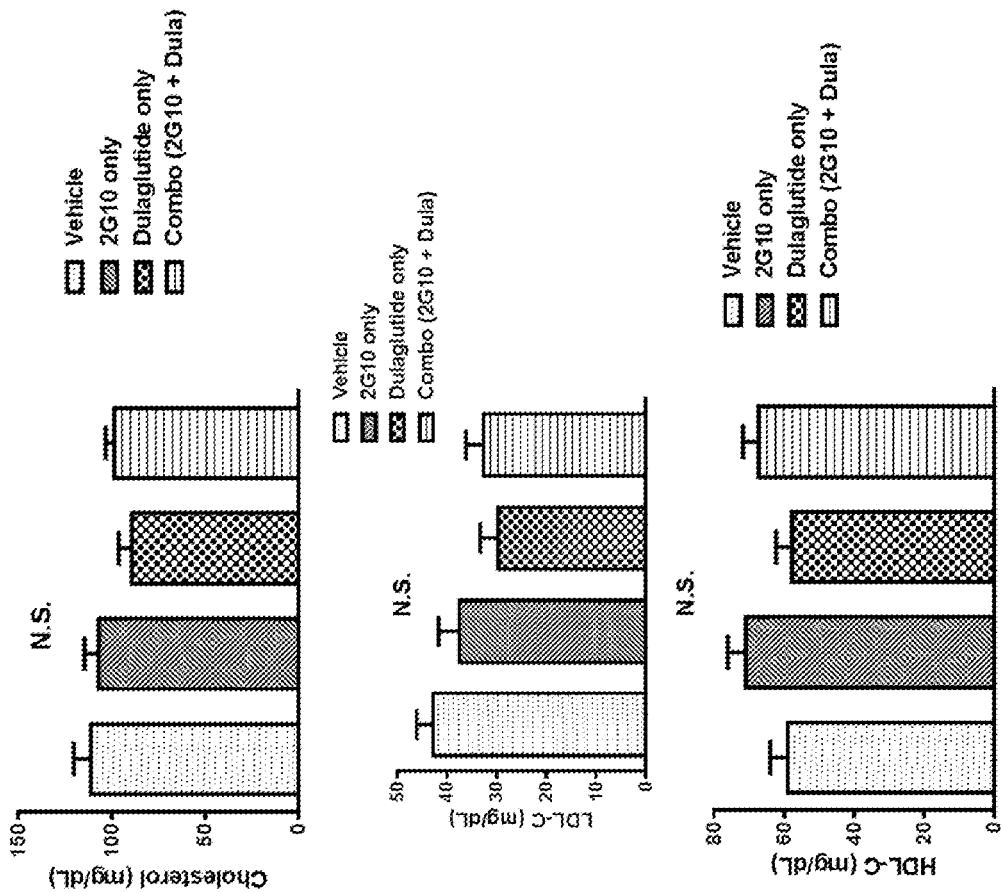


Fig. 54

2G10 had no effects glucose levels in overnight fasted normoglycemic obese cynomolgus monkeys post treatment phase (day 45)

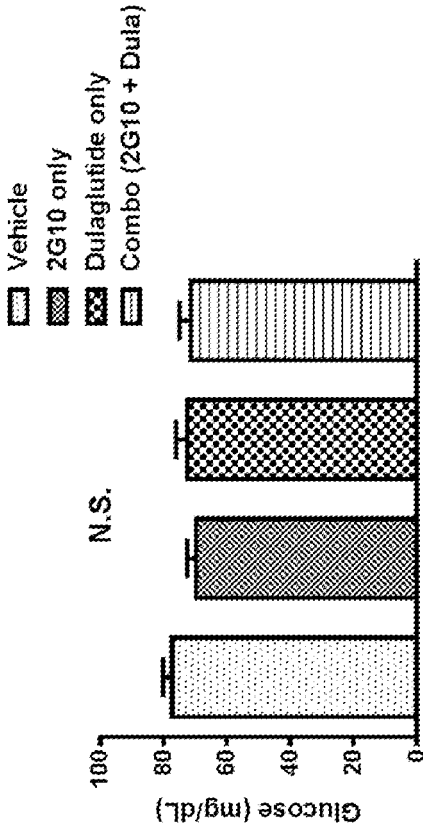
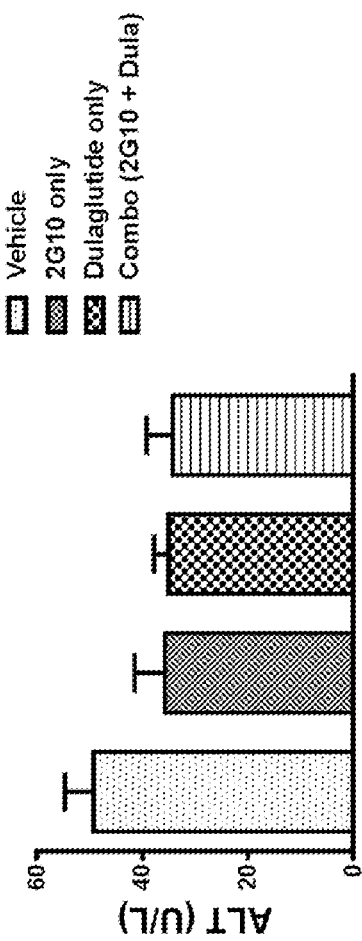
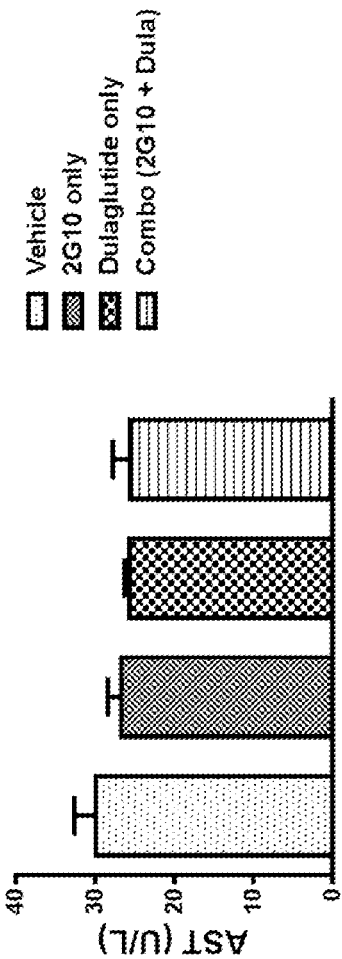


Fig. 55

2G10 had no effect on liver enzymes in overnight fasted spontaneously obese cynomolgus monkeys post treatment phase (day 45)



Statistical analysis not performed on this data set



Statistical analysis not performed on this data set

Fig. 56

FIG. 57

Overall structure of the huGIPR-Fab 2G10 complex

FIG. 57A



FIG. 57B

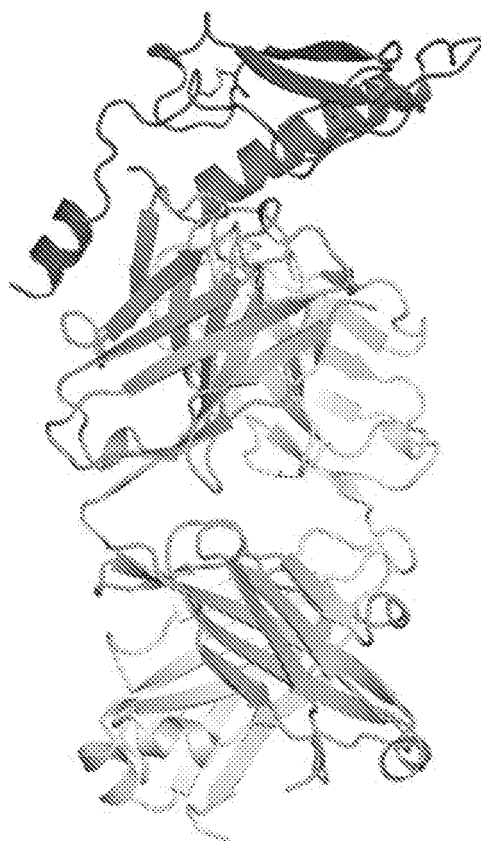


FIG. 58

Binding Interface

FIG. 58A

Binding interface highlighting the CDR loops of Fab 2G10

**FIG. 58B**

Binding interface highlighting the huGIPR residues

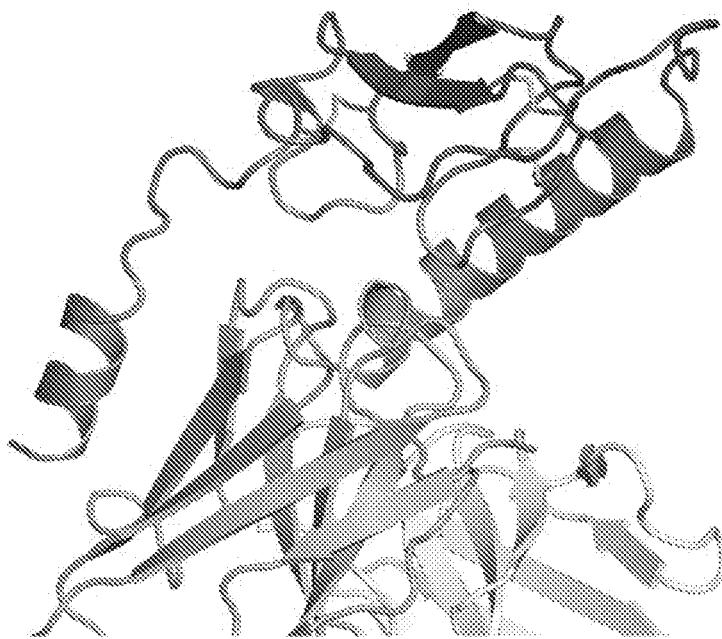


FIG. 59

Overall structure of the huGIPR-Fab 2C2 complex

FIG. 59A

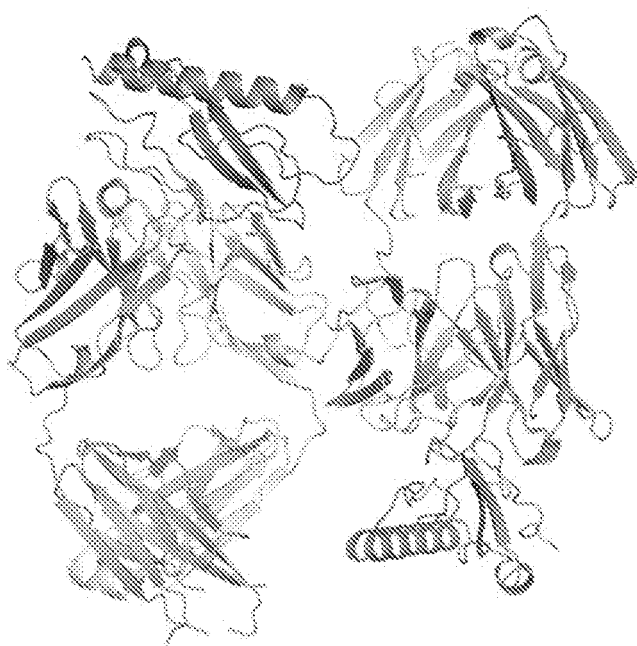


FIG. 59B

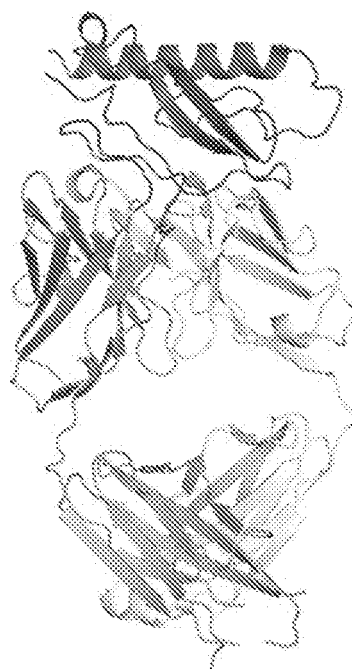
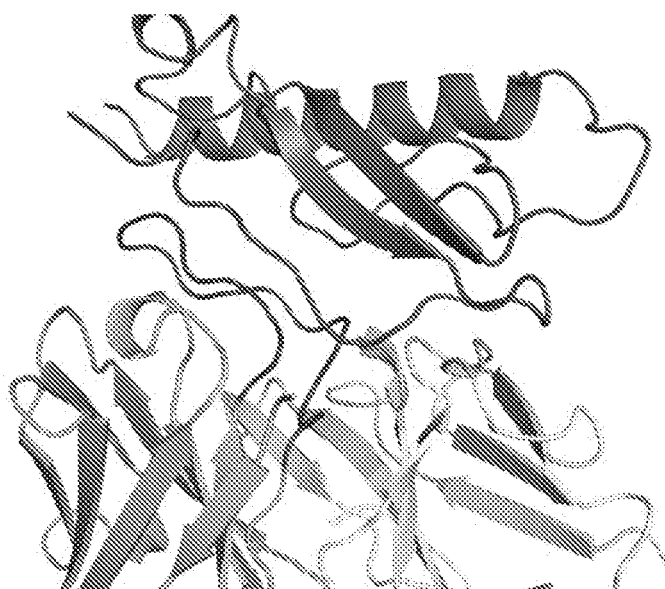


FIG. 60

Binding Interface

FIG. 60A

Binding interface highlighting the CDR loops of Fab 2C2

**FIG. 60B**

Binding interface highlighting the huGIPR residues

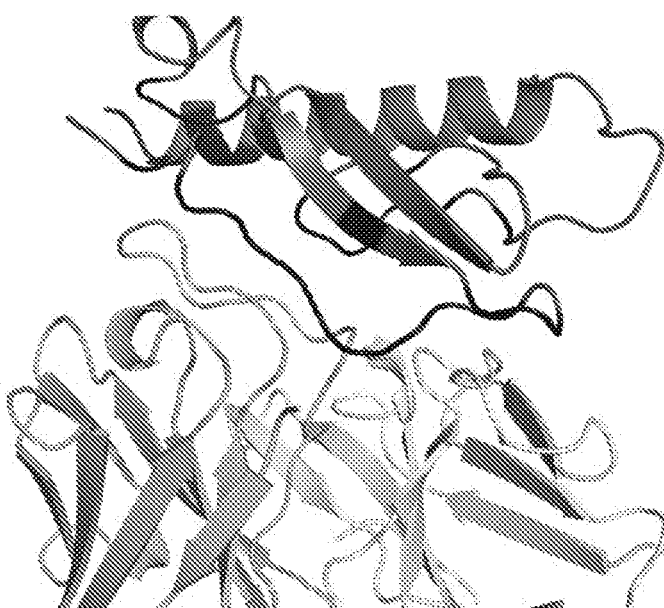


FIG. 61

Overall structure of the huGIPR-Fab 6H1 complex

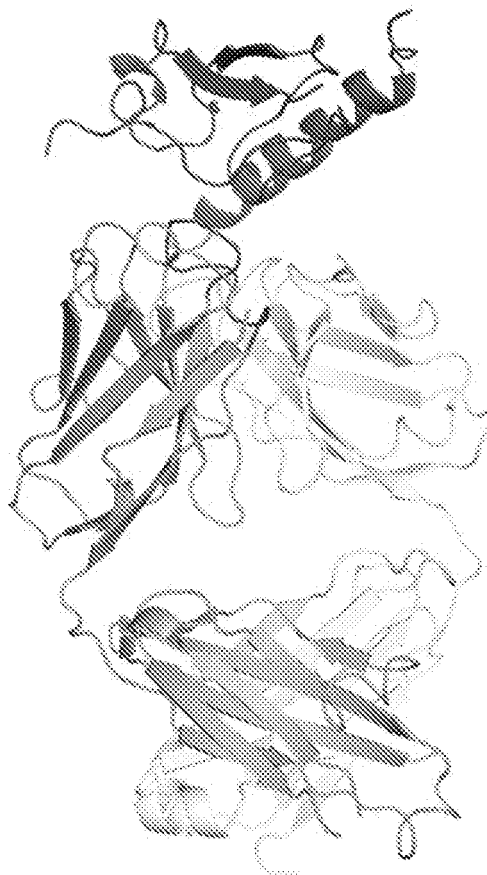


FIG. 62

Binding Interface

FIG. 62A

Binding interface highlighting the CDR loops of Fab 6H1

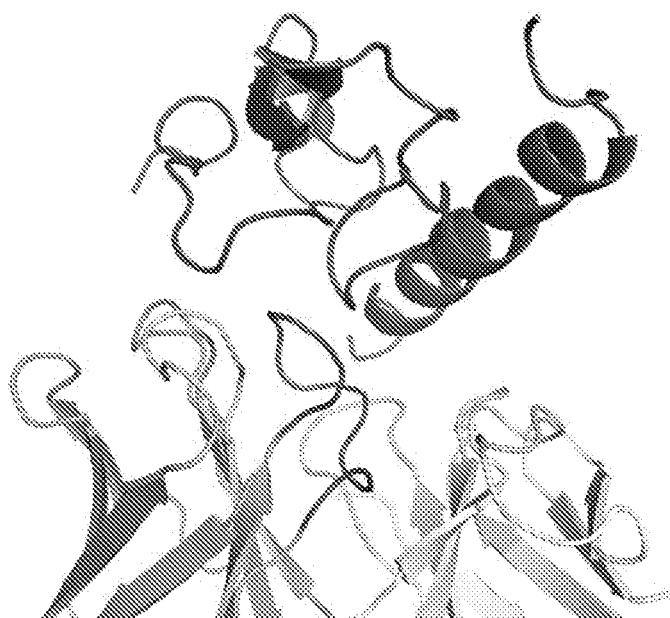


FIG. 62B

Binding interface highlighting the huGIPR residues

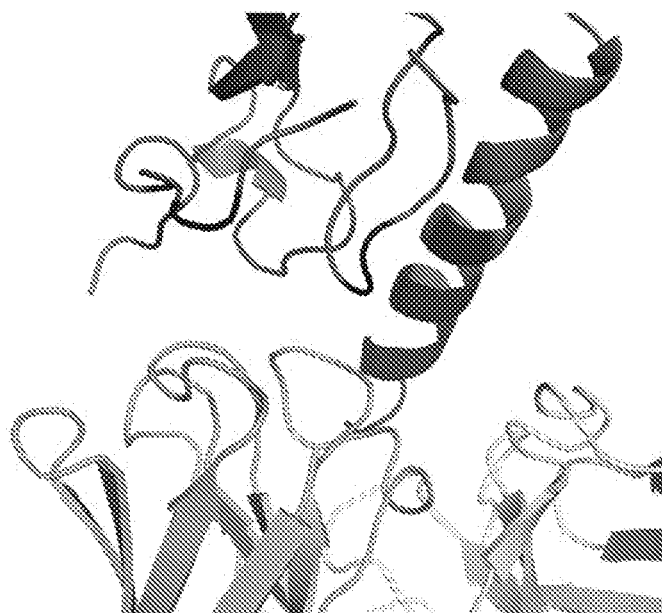


FIG. 63

Overall structure of the huGIPR-Fab 17H11 complex



FIG. 64

Binding Interface

FIG. 64A

**Binding interface highlighting the
CDR loops of Fab 17H11**

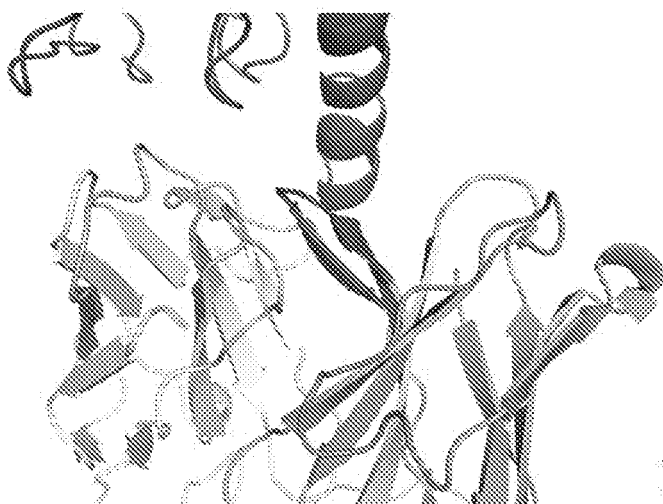


FIG. 64B

**Binding interface highlighting
the huGIPR residues**



FIG. 65

Surface representation of antibody epitope

FIG. 65A
2G10

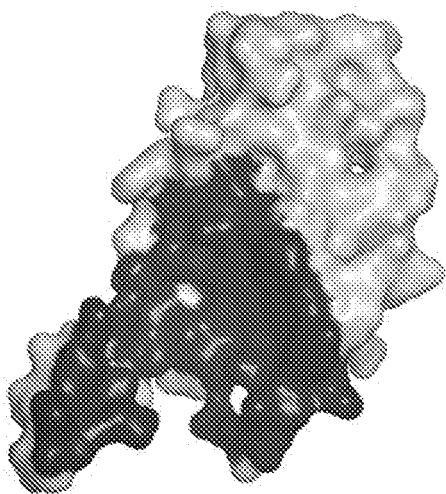


FIG. 65B
2C2

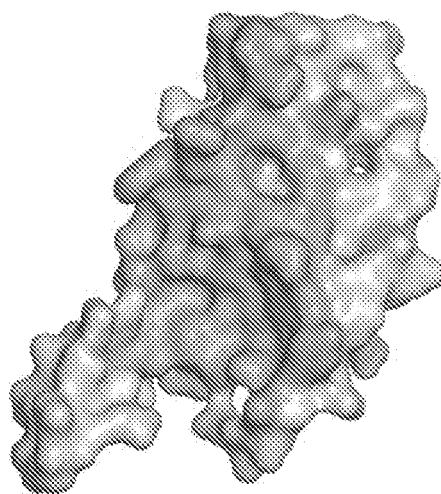


FIG. 65C
6H1

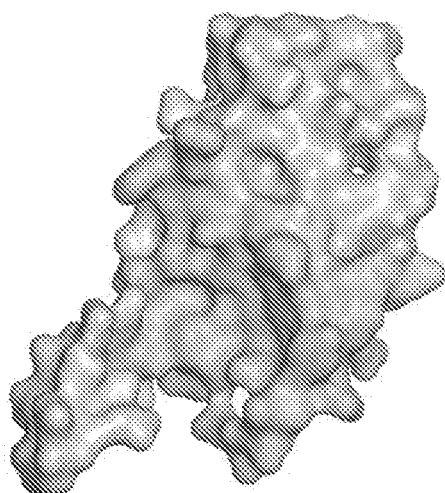


FIG. 65D
17H11

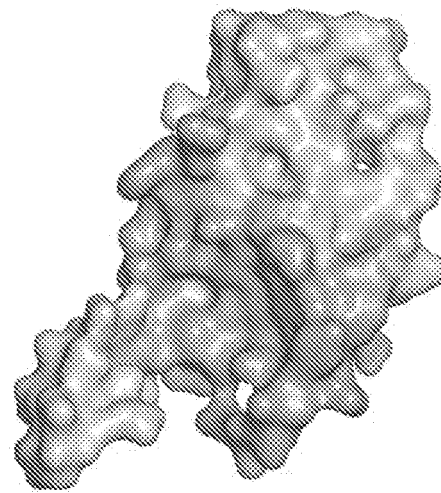


FIG. 65 (Continued)

Surface representation of antibody epitope

FIG. 65E – Epitope for the Gipg013 (PDB: 4JH0)

