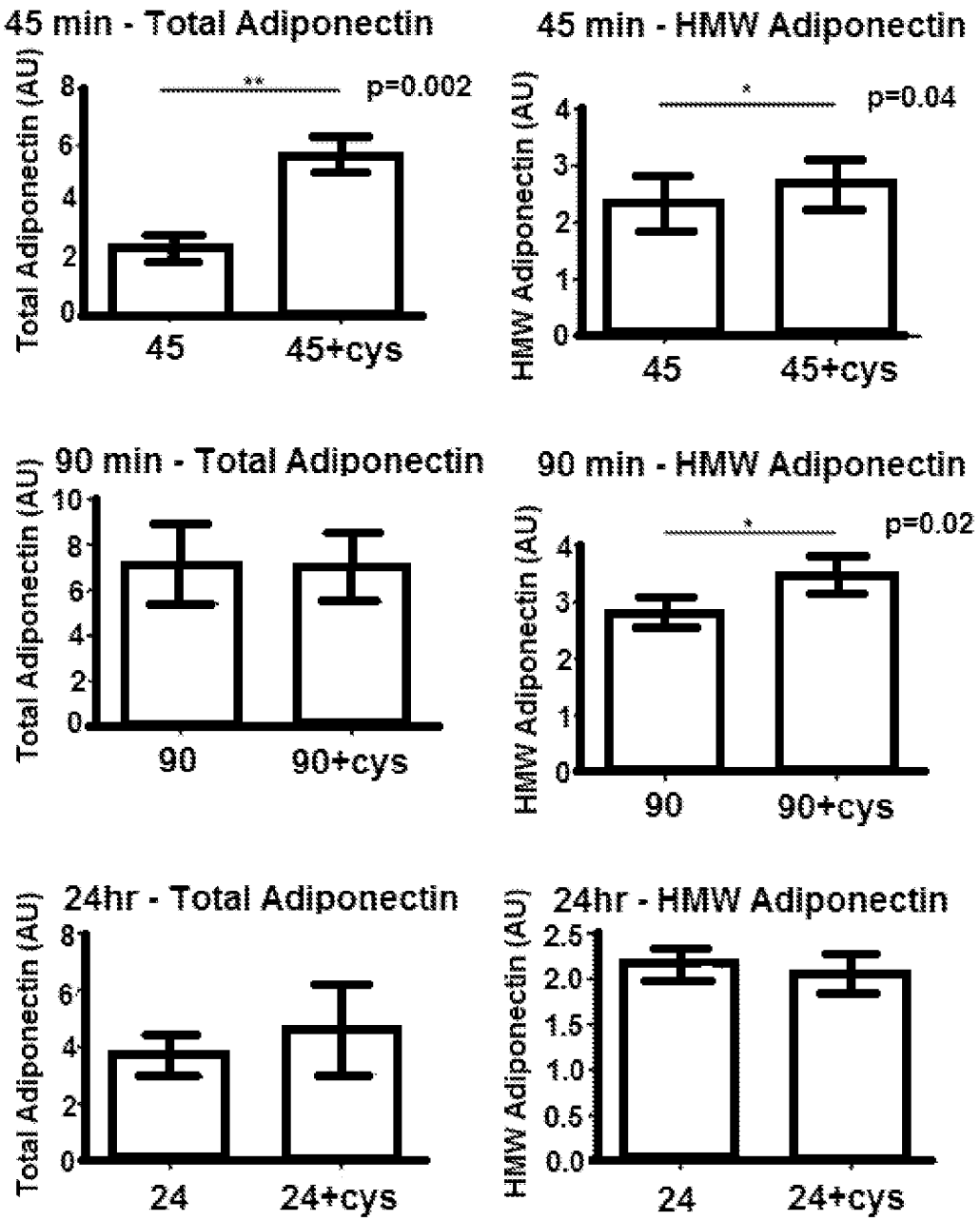

45 min - Total Adiponectin
Total Adiponectin (AU)
**
p=0.002
0
2
4
6
8
45
45+cys
45 min - HMW Adiponectin
HMW Adiponectin (AU)
*
p=0.04
0
1
2
3
4
45
45+cys
90 min - Total Adiponectin
Total Adiponectin (AU)
0
2
4
6
8
10
90
90+cys
90 min - HMW Adiponectin
HMW Adiponectin (AU)
*
p=0.02
0
1
2
3
4
90
90+cys
24hr - Total Adiponectin
Total Adiponectin (AU)
0
2
4
6
8
24
24+cys
24hr - HMW Adiponectin
HMW Adiponectin (AU)
0.0
0.5
1.0
1.5
2.0
2.5
24
24+cys

FIG. 1

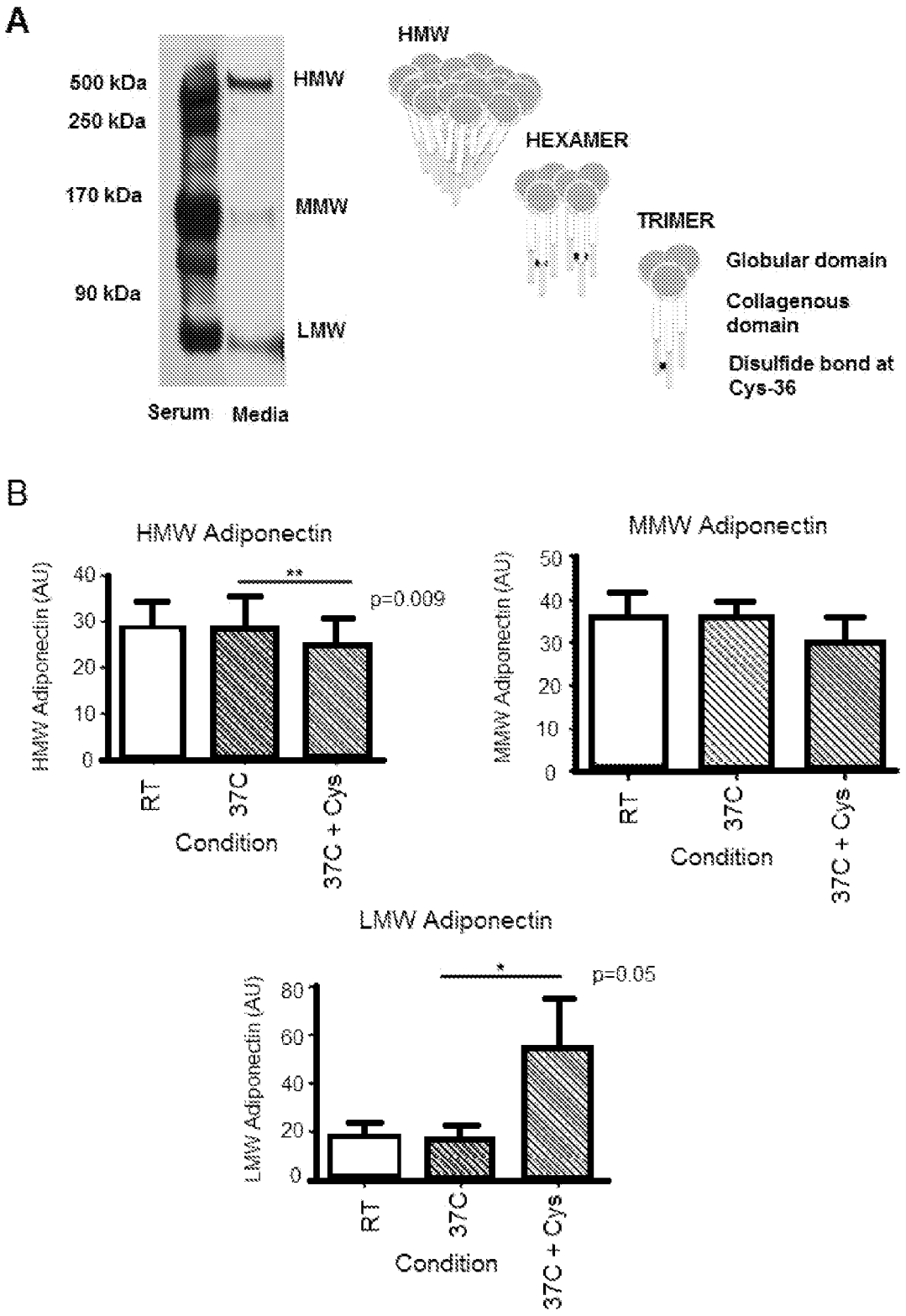

A
500 kDa
250 kDa
170 kDa
90 kDa
HMW
MMW
LMW
Serum
Media
HMW
HEXAMER
TRIMER
Globular domain
Collagenous domain
Disulfide bond at Cys-36
B
HMW Adiponectin
HMW Adiponectin (AU)
**
p=0.009
RT
37C
37C + Cys
Condition
MMW Adiponectin
MMW Adiponectin (AU)
LMW Adiponectin
LMW Adiponectin (AU)
*
p=0.05

FIG. 2A-B

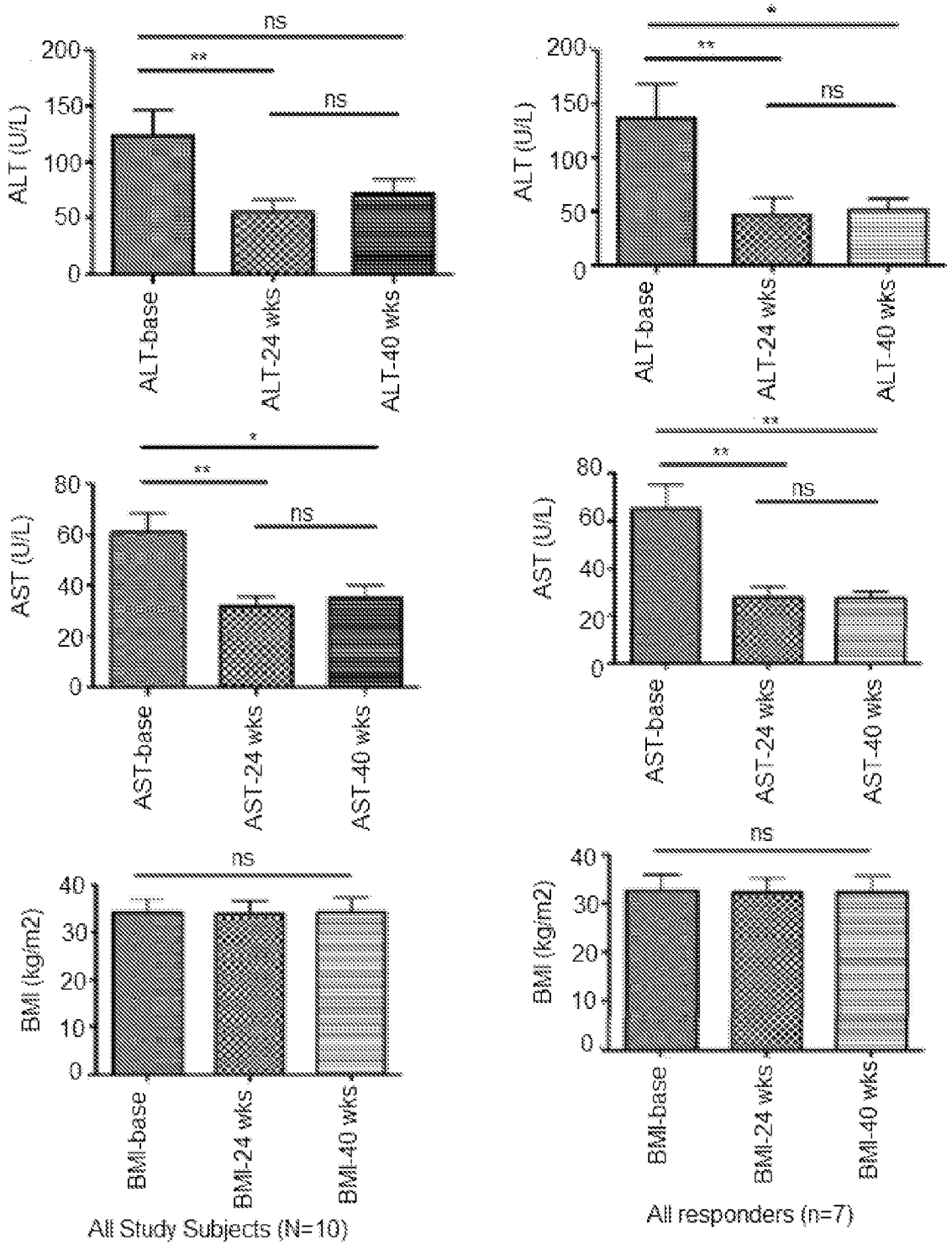

ALT (U/L)
200
150
100
50
0
ns
**
ns
ALT-base
ALT-24 wks
ALT-40 wks
AST (U/L)
80
60
40
20
0
*
**
ns
AST-base
AST-24 wks
AST-40 wks
BMI (kg/m2)
40
30
20
10
0
ns
BMI-base
BMI-24 wks
BMI-40 wks
All Study Subjects (N=10)
All responders (n=7)

FIG. 2C

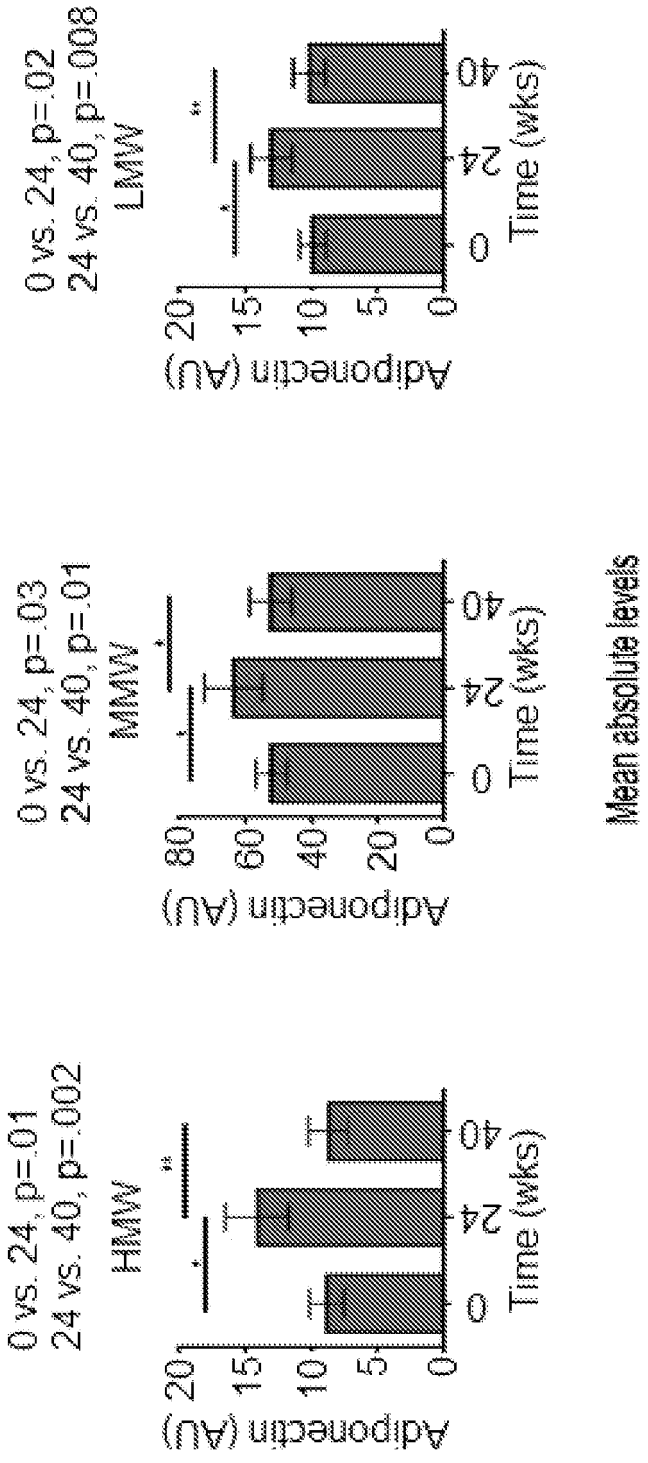

0 vs. 24, p=.01
24 vs. 40, p=.002
HMW
Adiponectin (AU)
Time (wks)
0 vs. 24, p=.03
24 vs. 40, p=.01
MMW
Adiponectin (AU)
Time (wks)
0 vs. 24, p=.02
24 vs. 40, p=.008
LMW
Adiponectin (AU)
Time (wks)
Mean absolute levels

FIG. 3

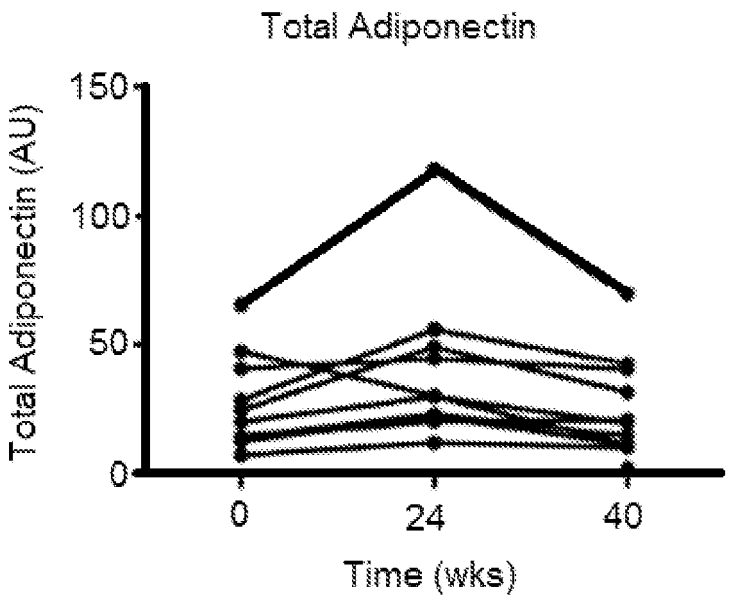

Total Adiponectin
Total Adiponectin (AU)
150
100
50
0
0
24
40
Time (wks)

FIG. 4

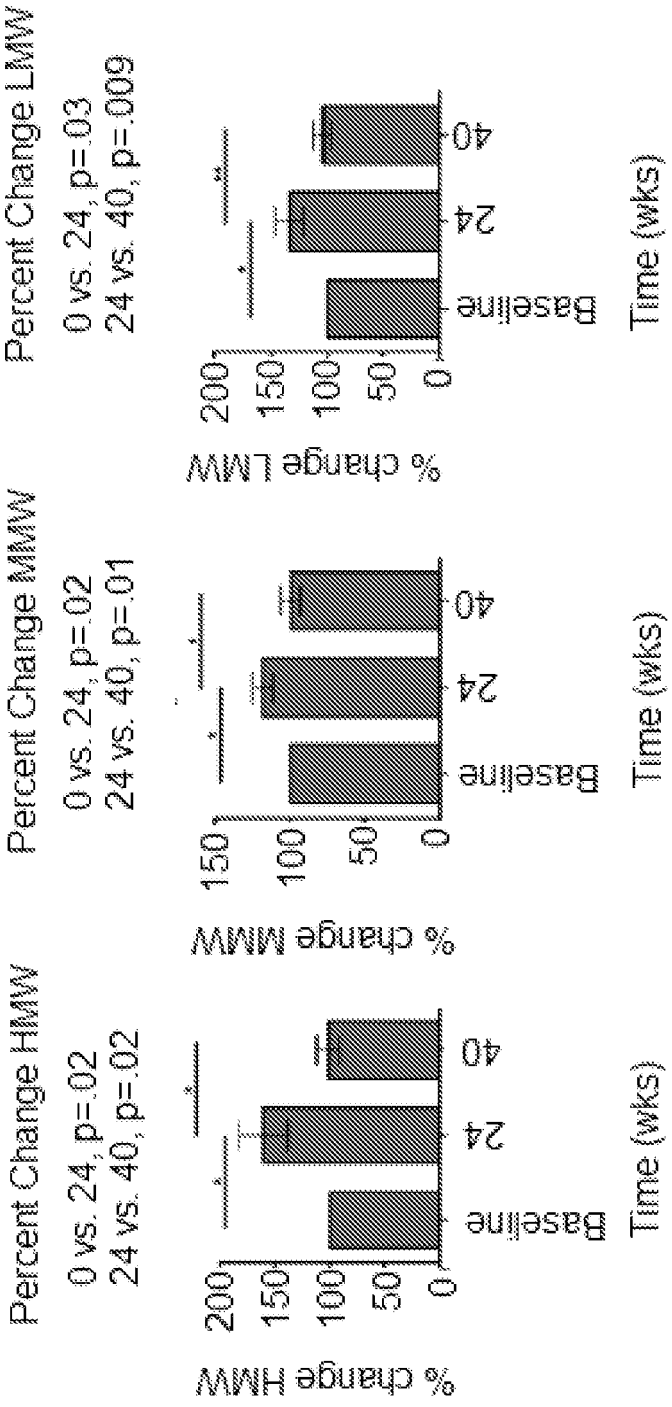

Percent Change HMW
0 vs. 24, p=.02
24 vs. 40, p=.02
% change HMW
200
150
100
50
0
Baseline
24
40
Time (wks)
Percent Change MMW
0 vs. 24, p=.02
24 vs. 40, p=.01
% change MMW
150
100
50
0
Baseline
24
40
Time (wks)
Percent Change LMW
0 vs. 24, p=.03
24 vs. 40, p=.009
% change LMW
200
150
100
50
0
Baseline
24
40
Time (wks)
Mean Percent Change From Baseline

FIG. 5

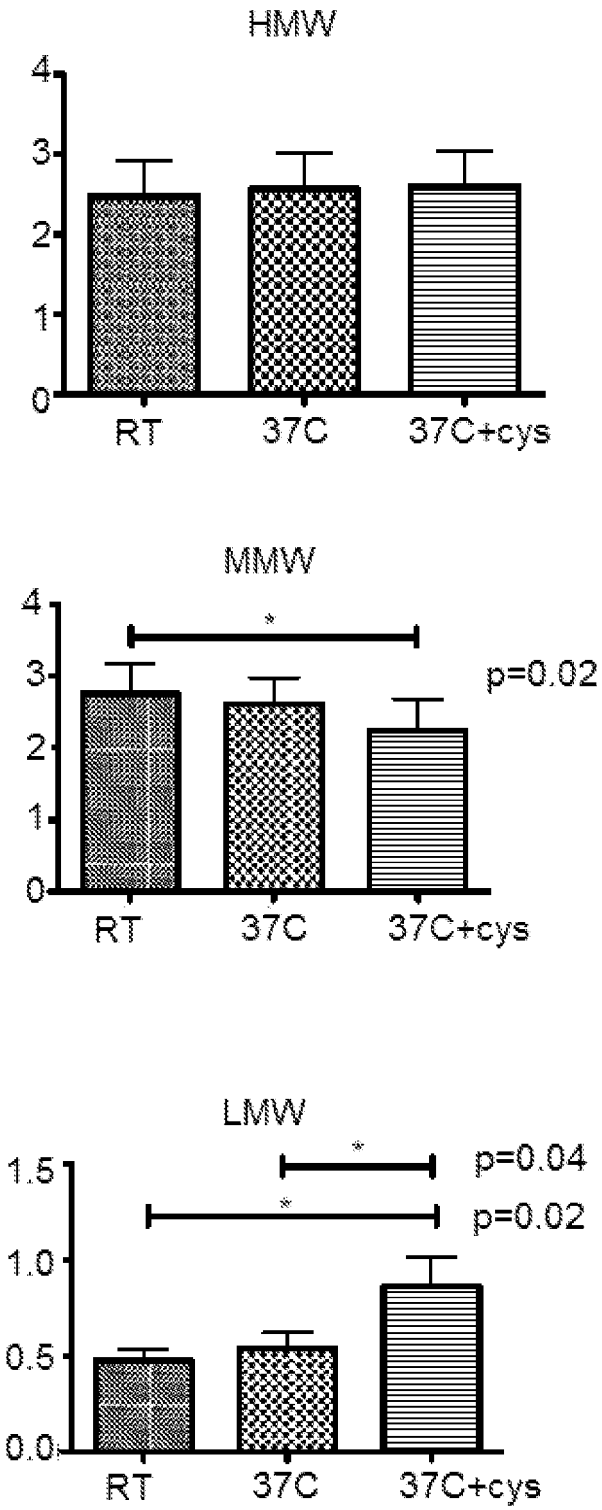

HMW
4
3
2
1
0
RT
37C
37C+cys
MMW
*
p=0.02
4
3
2
1
0
RT
37C
37C+cys
LMW
*
p=0.04
*
p=0.02
1.5
1.0
0.5
0.0
RT
37C
37C+cys

FIG. 6

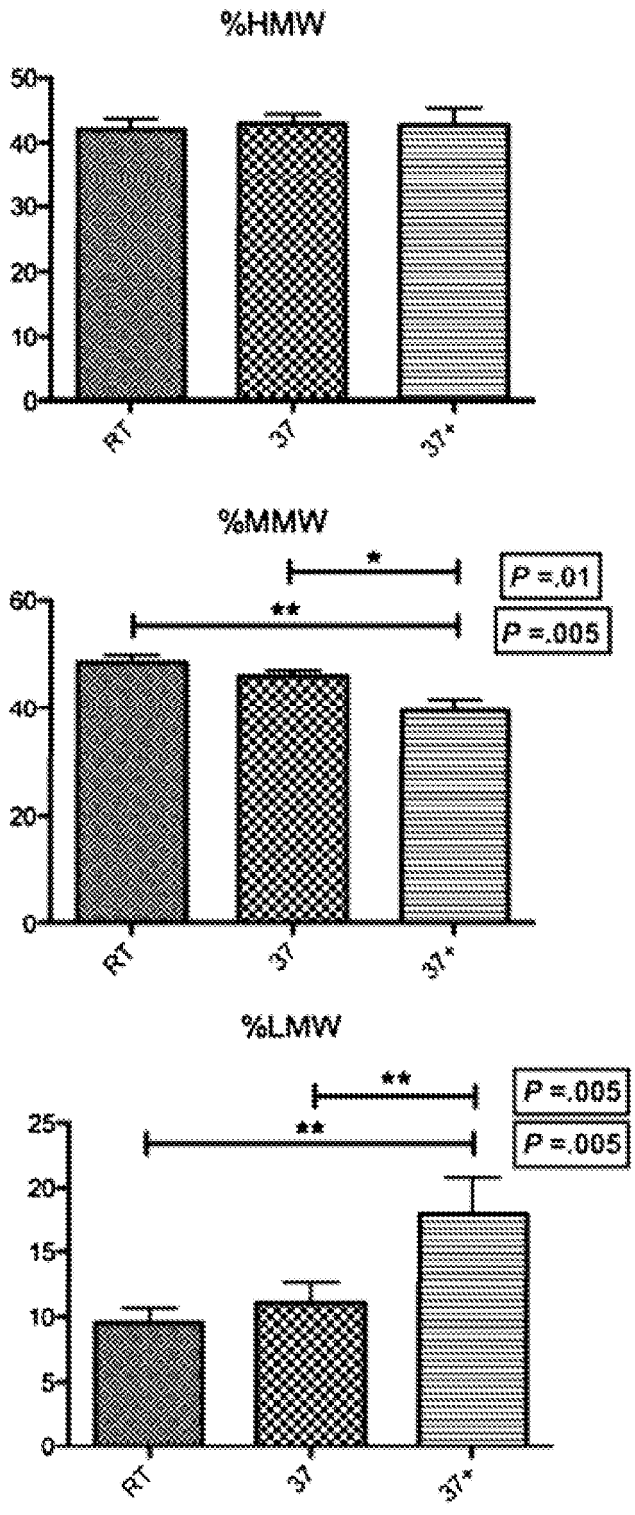

%HMW
50
40
30
20
10
0
RT
37
37*
%MMW
*
P =.01
**
P =.005
60
40
20
0
RT
37
37*
%LMW
**
P =.005
**
P =.005
25
20
15
10
5
0
RT
37
37*

FIG. 7

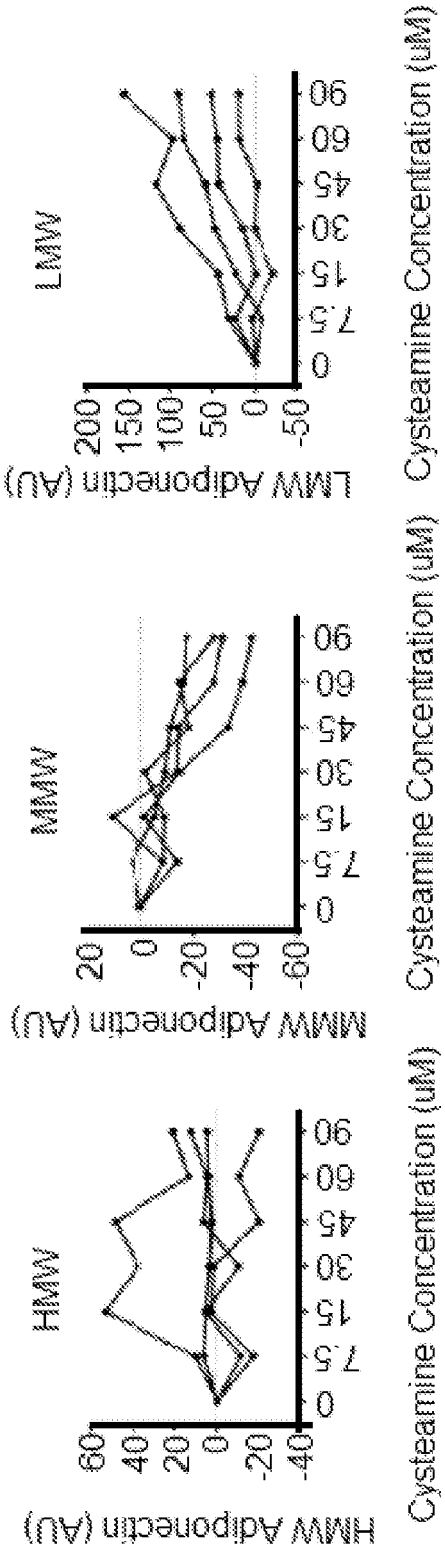

HMW
MMW
LMW
HMW Adiponectin (AU)
MMW Adiponectin (AU)
LMW Adiponectin (AU)
60
40
20
0
-20
-40
20
0
-20
-40
-60
200
150
100
50
0
-50
0
7.5
15
30
45
60
90
Cysteamine Concentration (uM)
Cysteamine Concentration (uM)
Cysteamine Concentration (uM)

FIG. 8

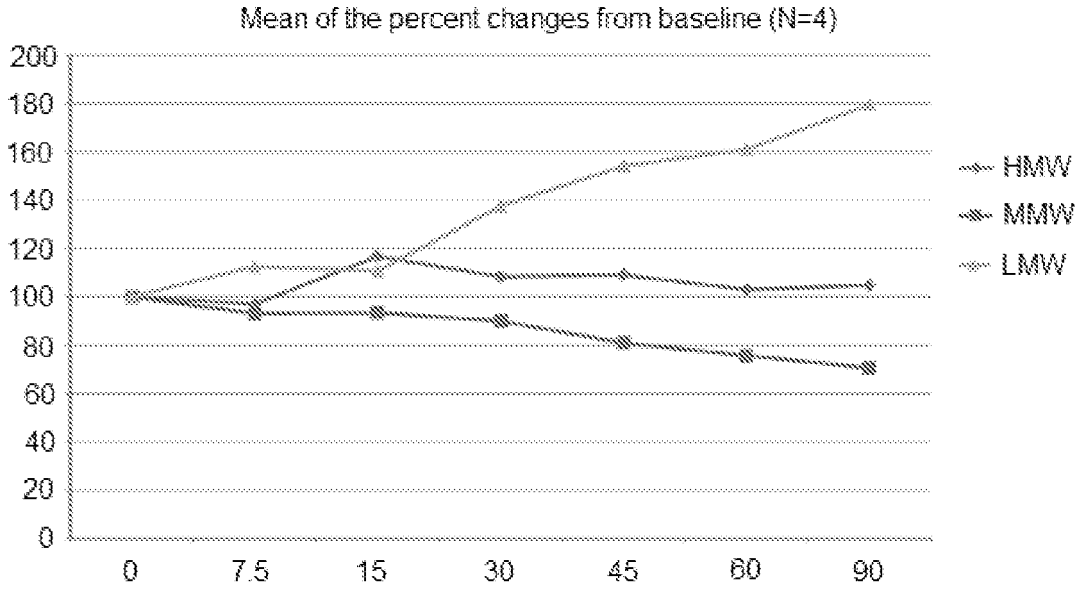

Mean of the percent changes from baseline (N=4)
200
180
160
140
120
100
80
60
40
20
0
0
7.5
15
30
45
60
90
HMW
MMW
LMW

FIGURE 9

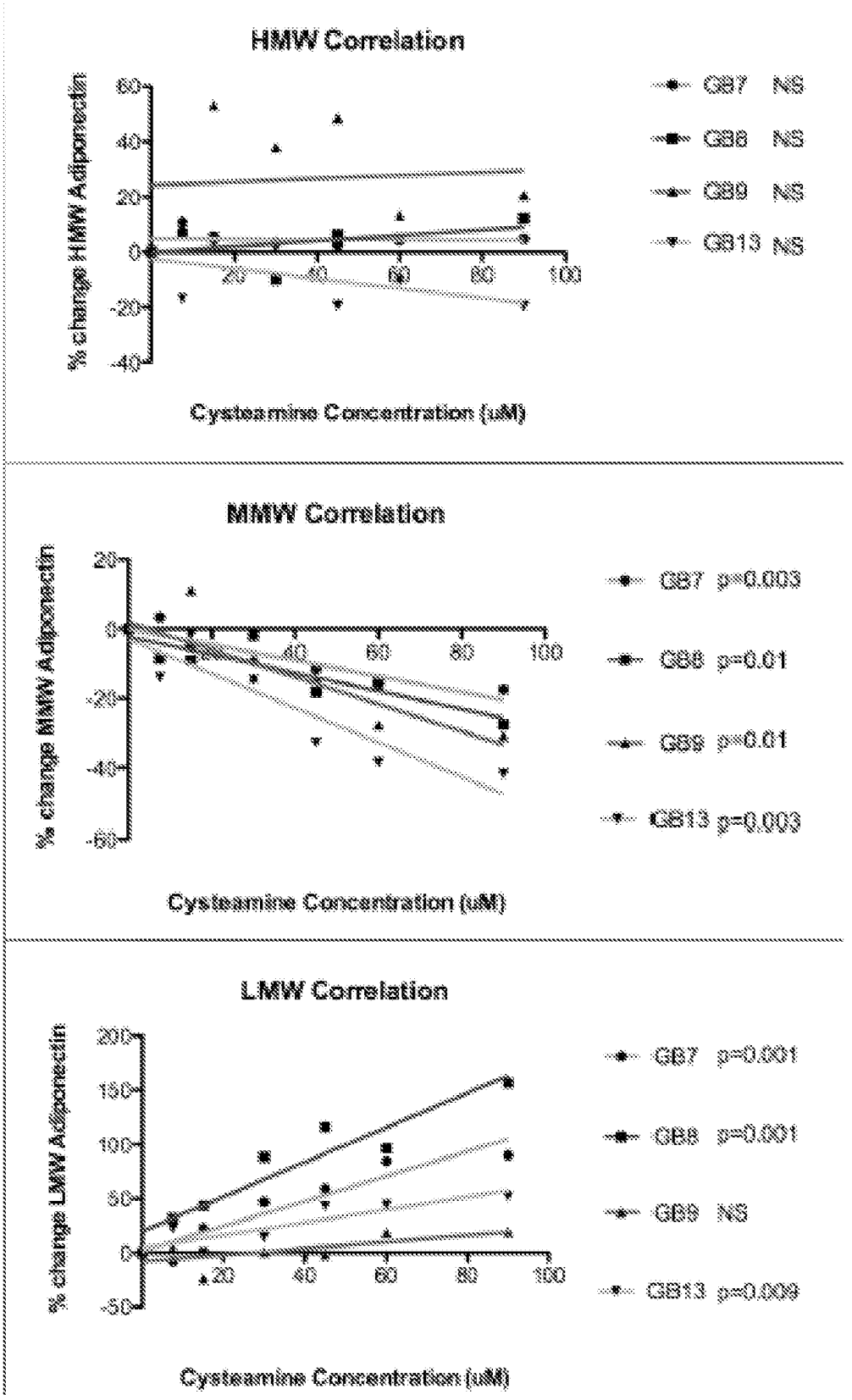

HMW Correlation
% change HMW Adiponectin
60
40
20
0
-20
-40
20
40
60
80
100
Cysteamine Concentration (uM)
GB7 NS
GB8 NS
GB9 NS
GB13 NS
MMW Correlation
% change MMW Adiponectin
20
0
-20
-40
-60
40
60
80
100
Cysteamine Concentration (uM)
GB7 p=0.003
GB8 p=0.01
GB9 p=0.01
GB13 p=0.003
LMW Correlation
% change LMW Adiponectin
200
150
100
50
0
-50
20
40
60
80
100
Cysteamine Concentration (uM)
GB7 p=0.001
GB8 p=0.001
GB9 NS
GB13 p=0.009

FIG. 10

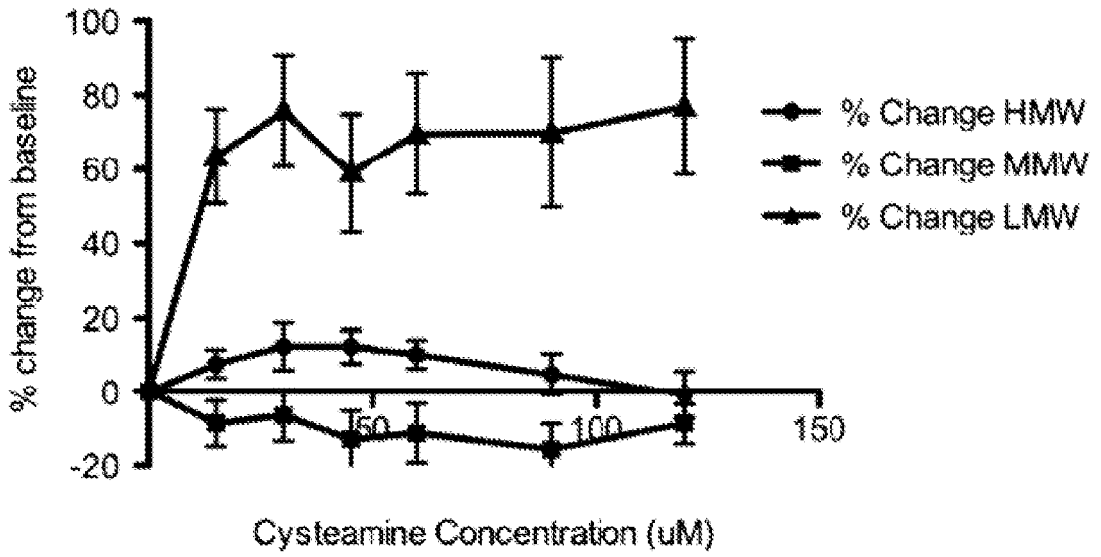

100
80
60
40
20
0
-20
% change from baseline
50
100
150
Cysteamine Concentration (uM)
% Change HMW
% Change MMW
% Change LMW

FIG. 11

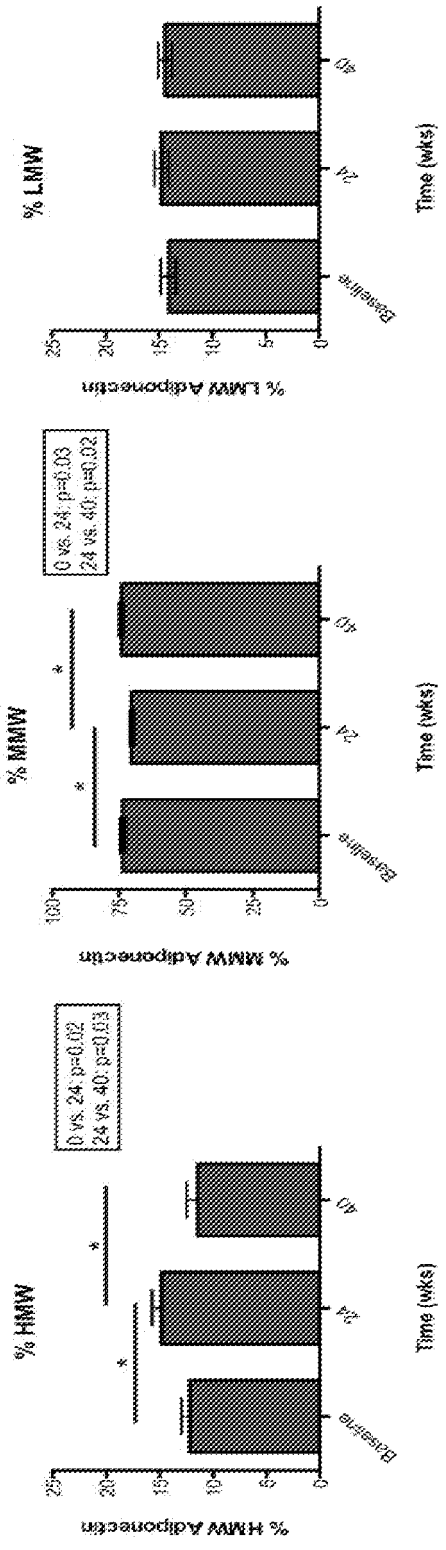

% HMW Adiponectin
% HMW
0 vs. 24: p=0.02
24 vs. 40: p=0.03
Baseline
24
40
Time (wks)
% MMW Adiponectin
% MMW
0 vs. 24: p=0.03
24 vs. 40: p=0.02
Baseline
24
40
Time (wks)
% LMW Adiponectin
% LMW
Baseline
24
40
Time (wks)

FIG. 12

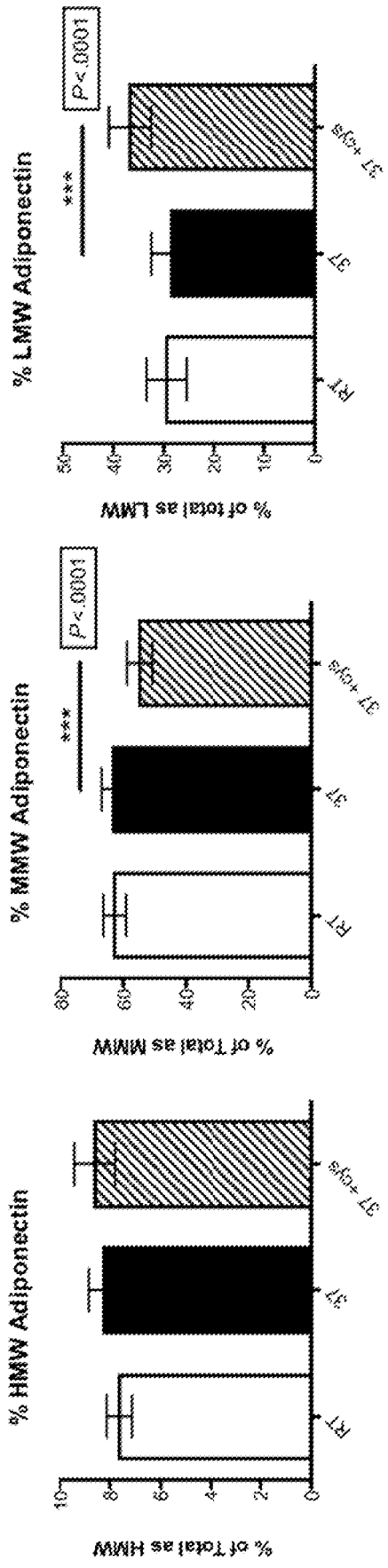

% HMW Adiponectin
% of Total as HMW
10
8
6
4
2
0
RT
37
37 +cys
% MMW Adiponectin
% of Total as MMW
80
60
40
20
0
***
P<.0001
% LMW Adiponectin
% of total as LMW
50
40
30
20
10
0

FIG. 13

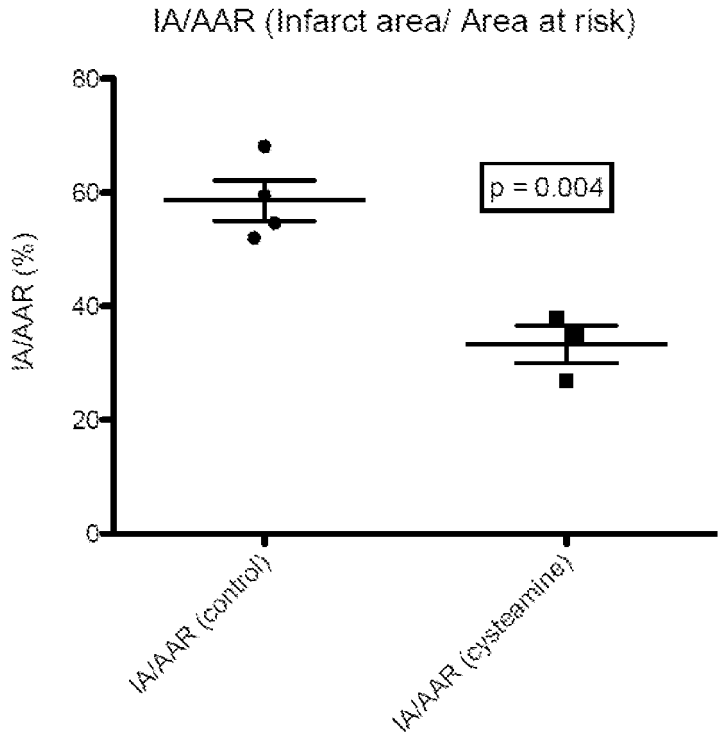


FIG. 14A

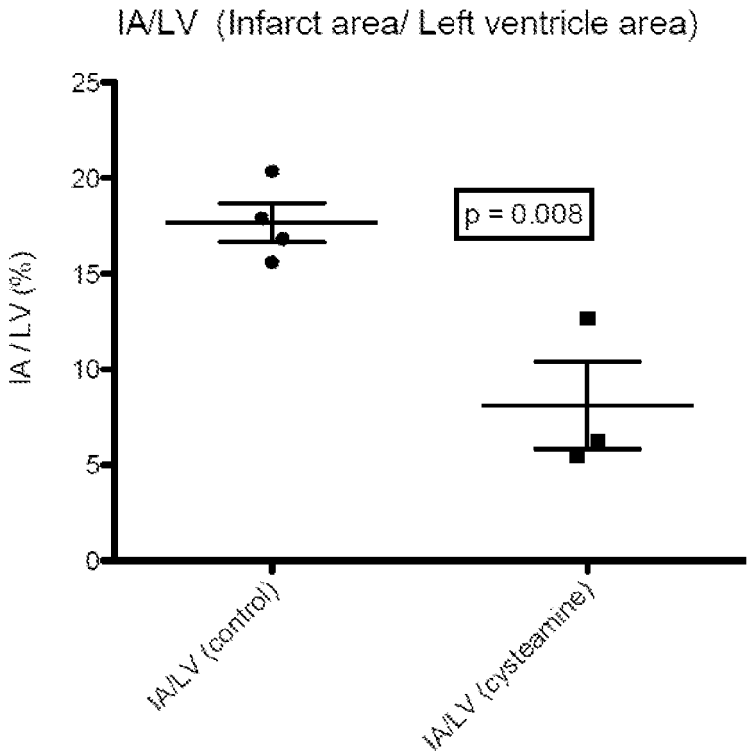


FIG. 14B

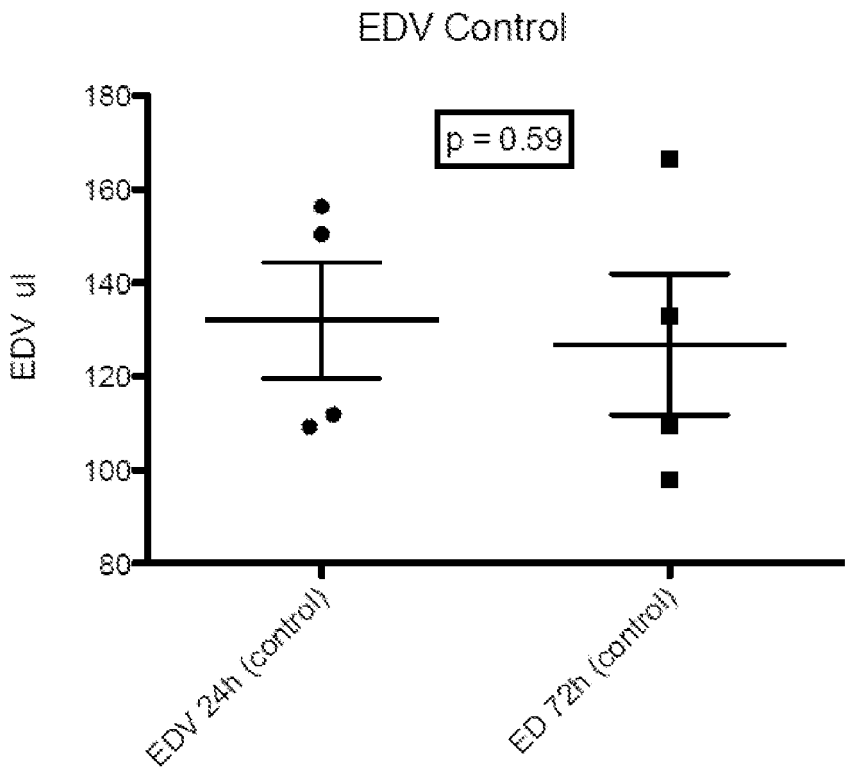


FIG. 15A

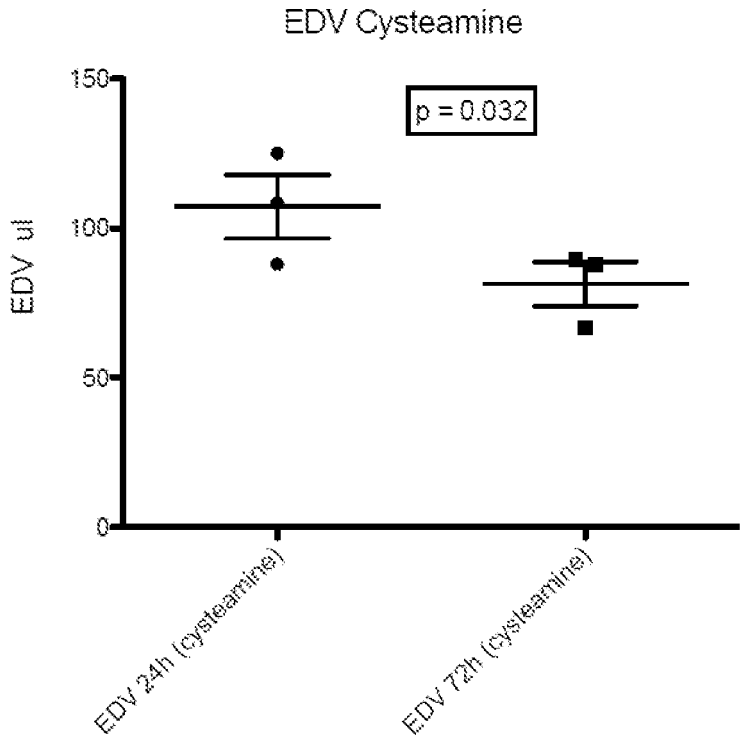


FIG. 15B

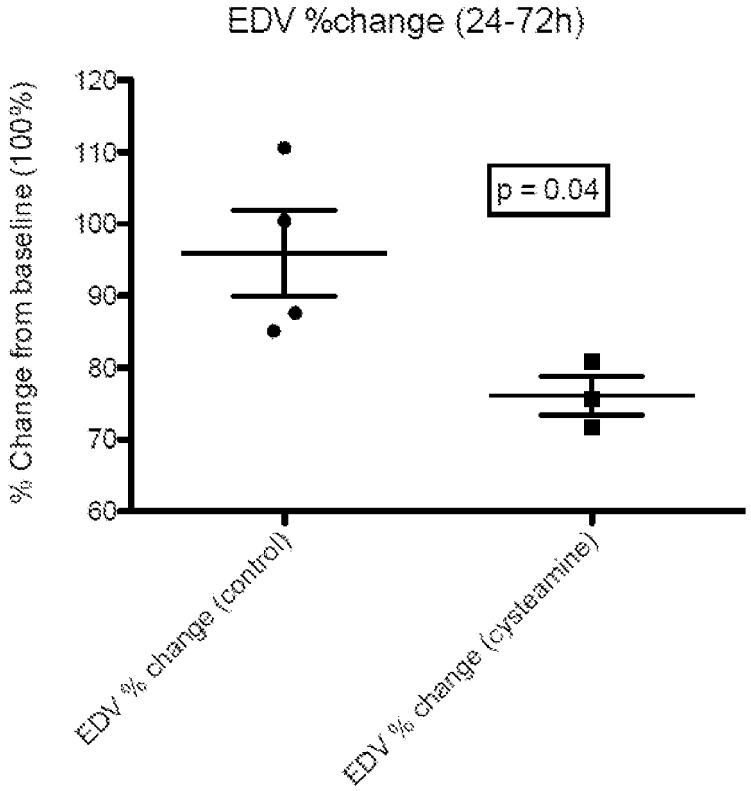


FIG. 16

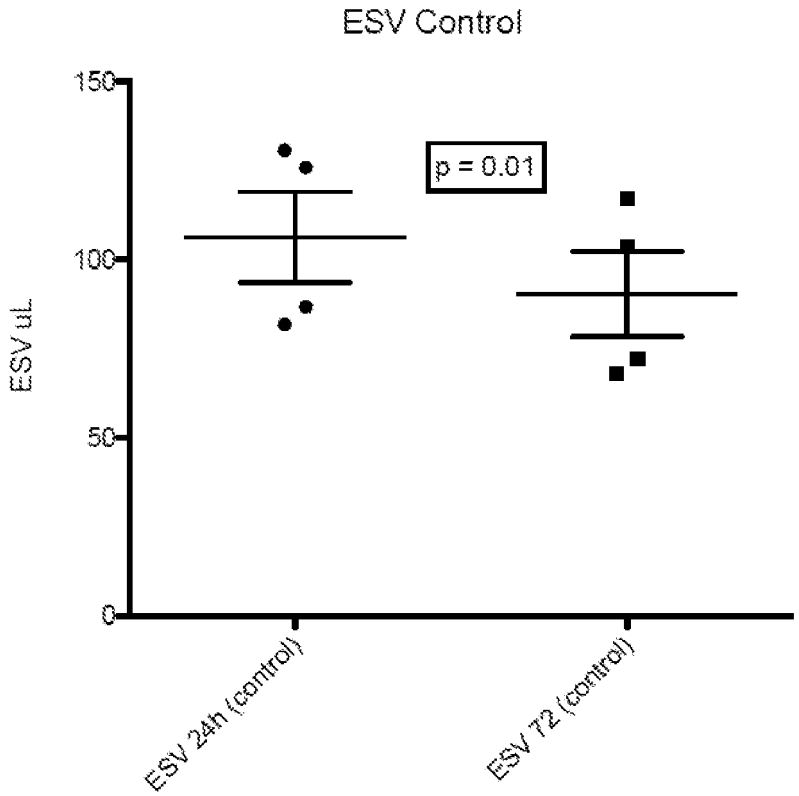


FIG. 17A

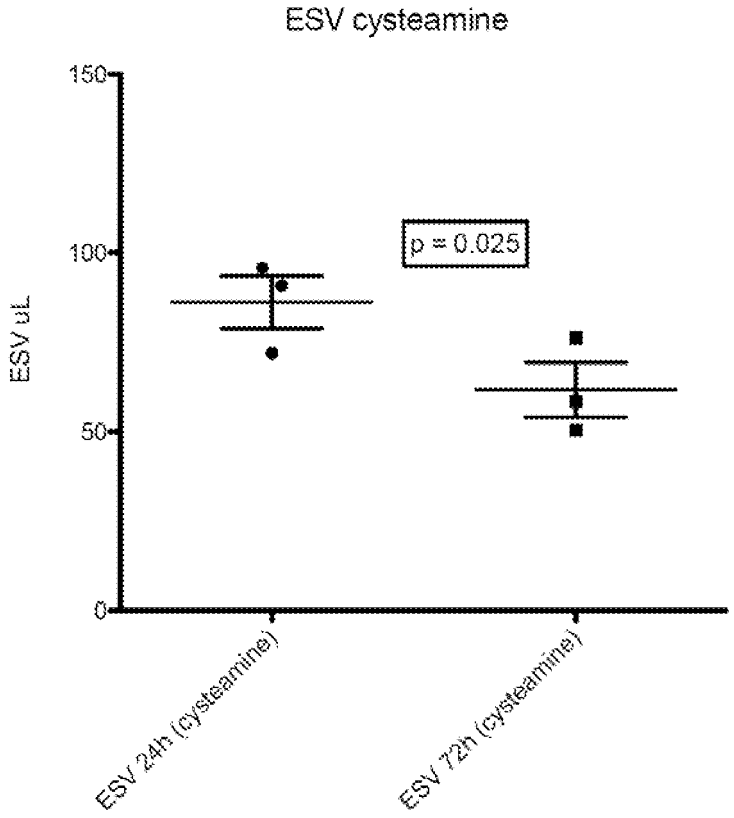


FIG. 17B

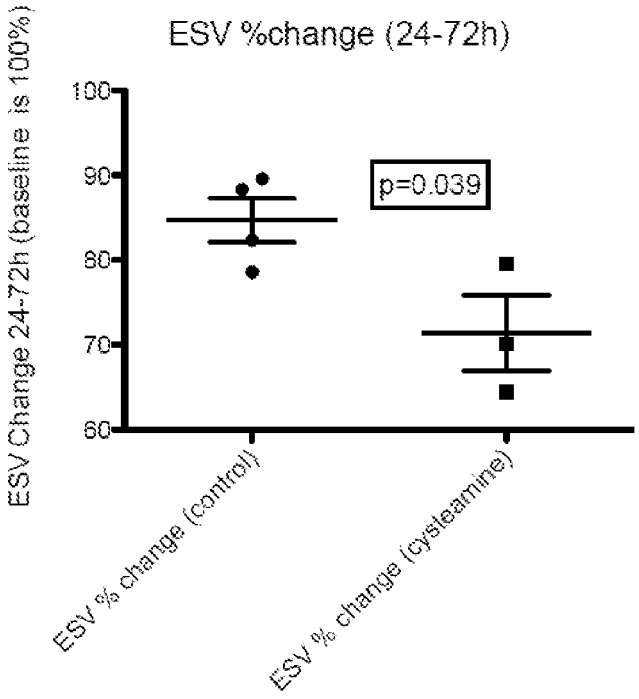


FIG. 18