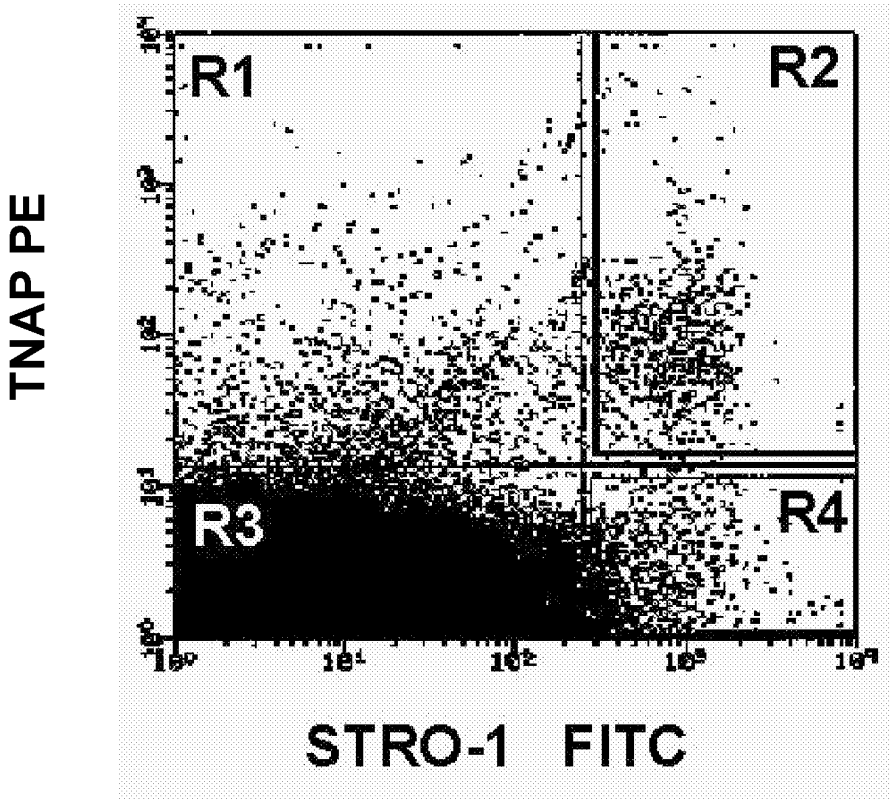


Figure 1

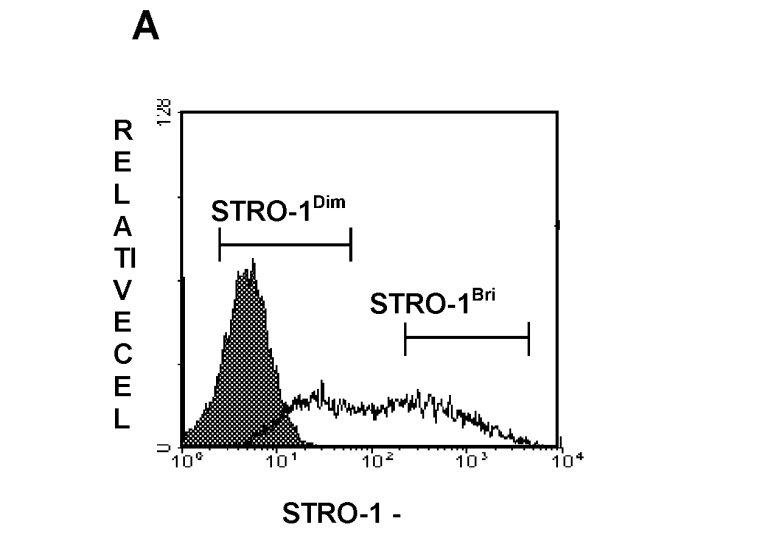

A
RELATIVE CELL
128
STRO-1Dim
STRO-1Bri
10⁰
10¹
10²
10³
10⁴
STRO-1 -
B
GAPDH
Nestin
GFAP
CBFA1
Osterix
OCN
PDGF-R
SOX-9
COL X
Leptin
PPARγ
Flt-1
KDR
Myo D
GATA-4
SMMHC
Ang-1
SDF-1α
IL-1β
TNF
RANK
SB SD

Figure 2A

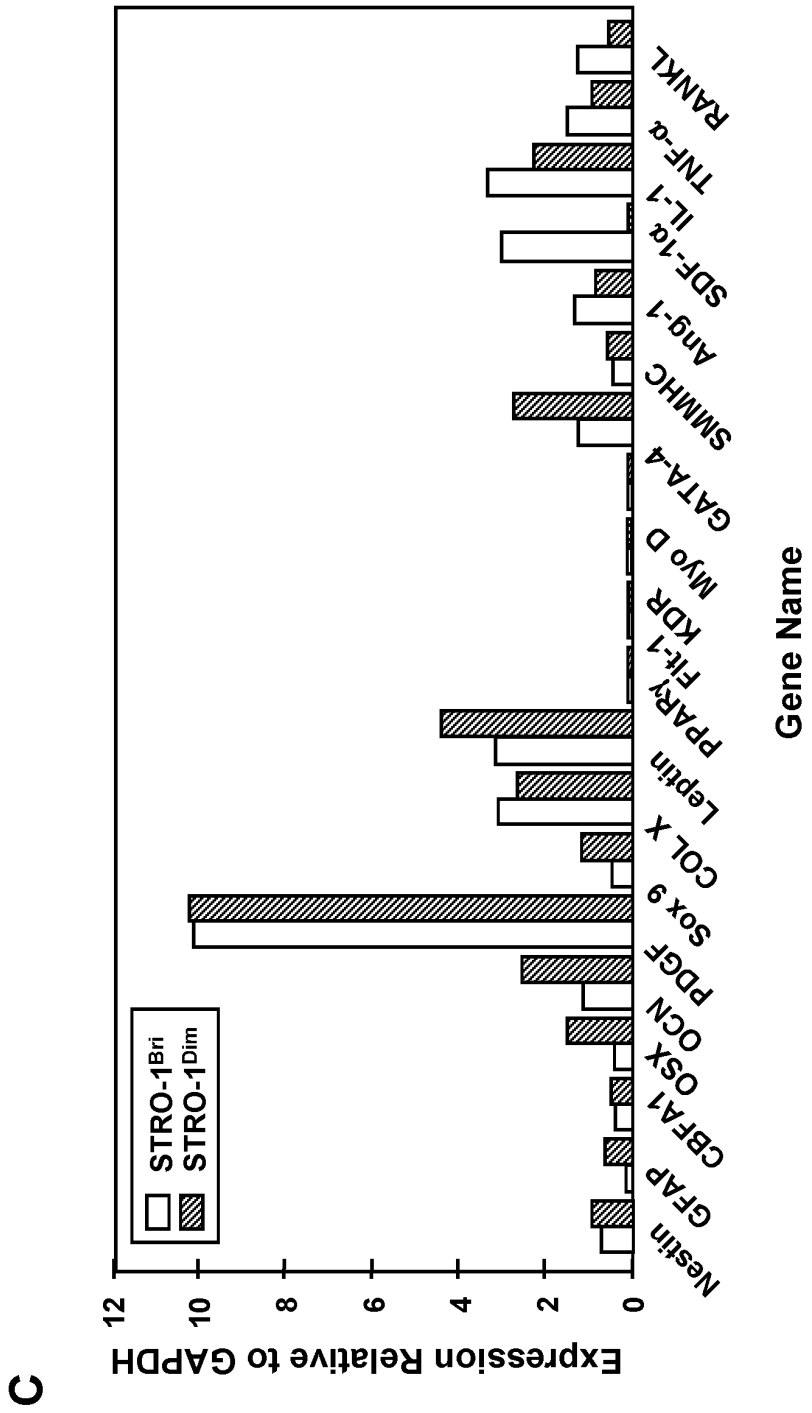

C
Expression Relative to GAPDH
0
2
4
6
8
10
12
STRO-1Bri
STRO-1Dim
Nestin
GFAP
CBFA1
OSX
OCN
PDGF
Sox 9
COL X
Leptin
PPARγ
Flt-1
KDR
Myo D
GATA-4
SMMHC
Ang-1
SDF-1α
IL-1
TNF-α
RANKL
Gene Name

Figure 2B

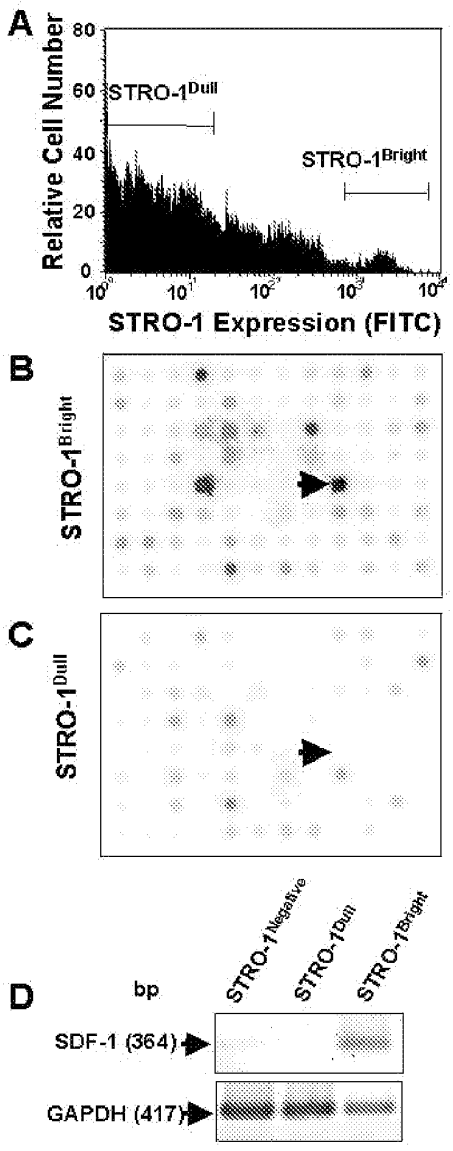

A
Relative Cell Number
80
60
40
20
0
STRO-1Dull
STRO-1Bright
10^0
10^1
10^2
10^3
10^4
STRO-1 Expression (FITC)
B
STRO-1Bright
C
STRO-1Dull
D
bp
STRO-1Negative
STRO-1Dull
STRO-1Bright
SDF-1 (364)
GAPDH (417)

Figure 3

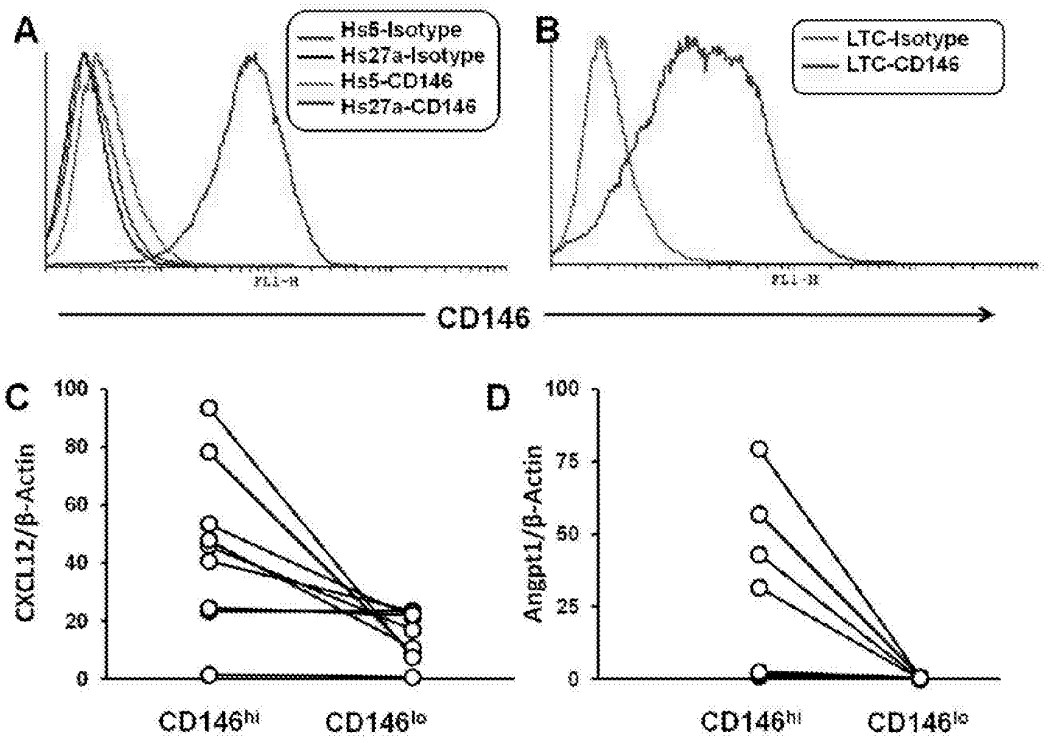

A
Hs5-Isotype
Hs27a-Isotype
Hs5-CD146
Hs27a-CD146
B
LTC-Isotype
LTC-CD146
CD146
C
CXCL12/β-Actin
100
80
60
40
20
0
CD146hi
CD146lo
D
Angpt1/β-Actin
100
75
50
25
0
CD146hi
CD146lo

Figure 4

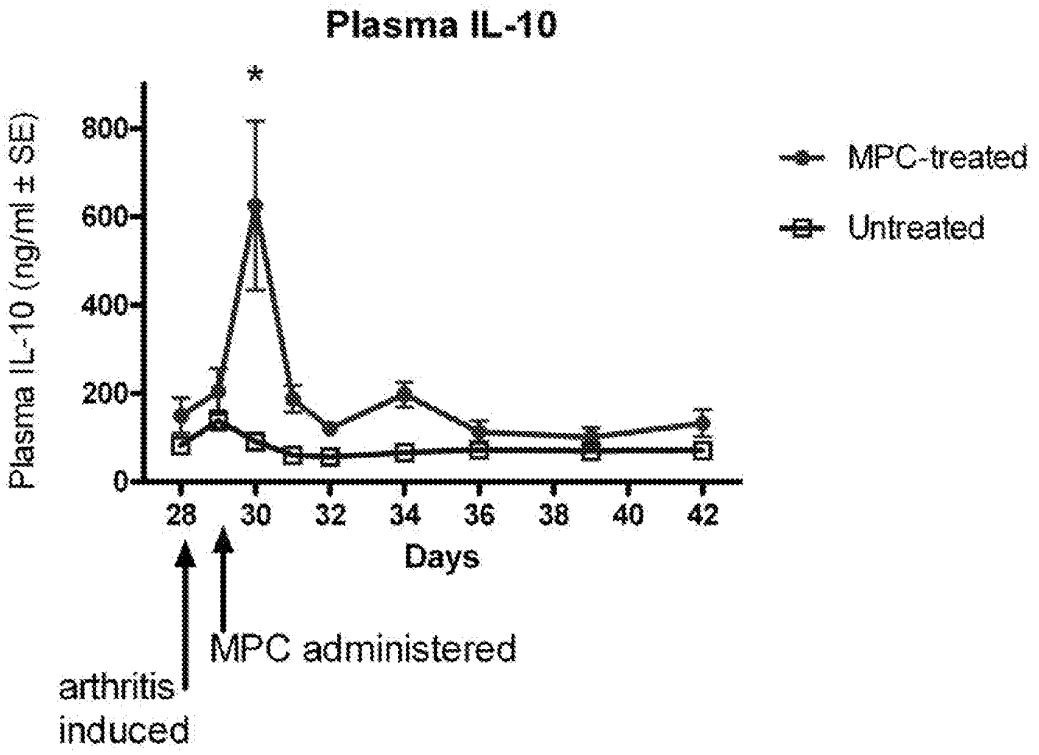

Plasma IL-10
*
Plasma IL-10 (ng/ml ± SE)
800
600
400
200
0
28
30
32
34
36
38
40
42
Days
MPC-treated
Untreated
MPC administered
arthritis
induced

Figure 5

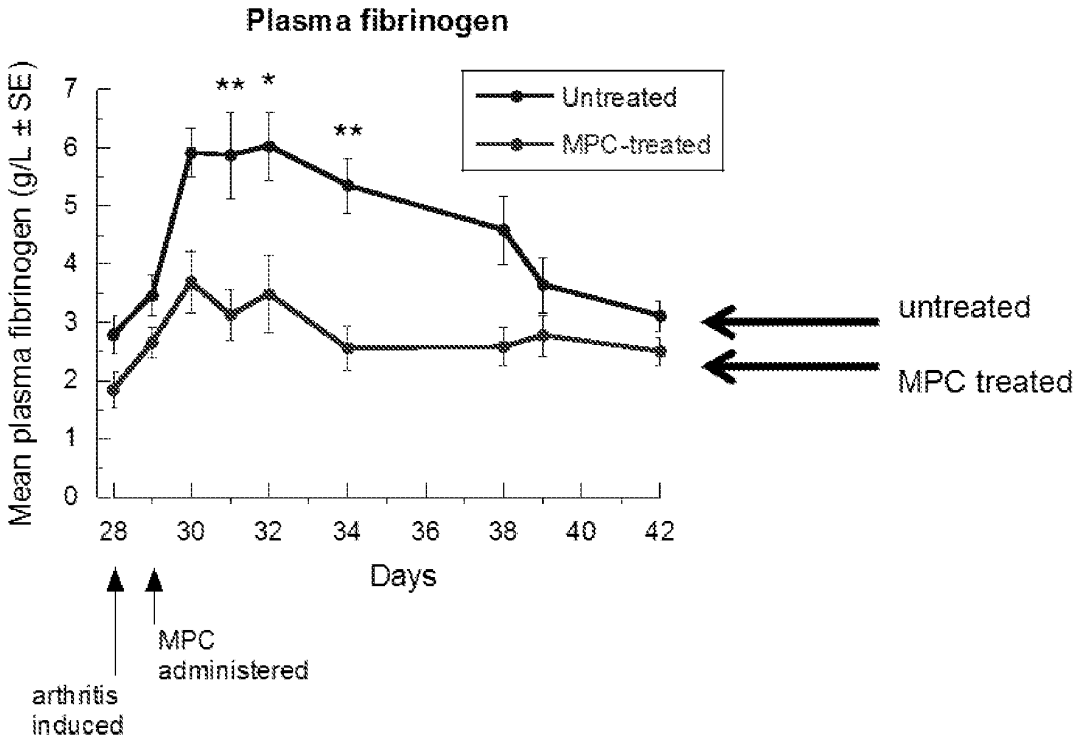

Plasma fibrinogen
Mean plasma fibrinogen (g/L ± SE)
0
1
2
3
4
5
6
7
28
30
32
34
36
38
40
42
Days
** *
**
Untreated
MPC-treated
untreated
MPC treated
MPC
administered
arthritis
induced

Figure 6

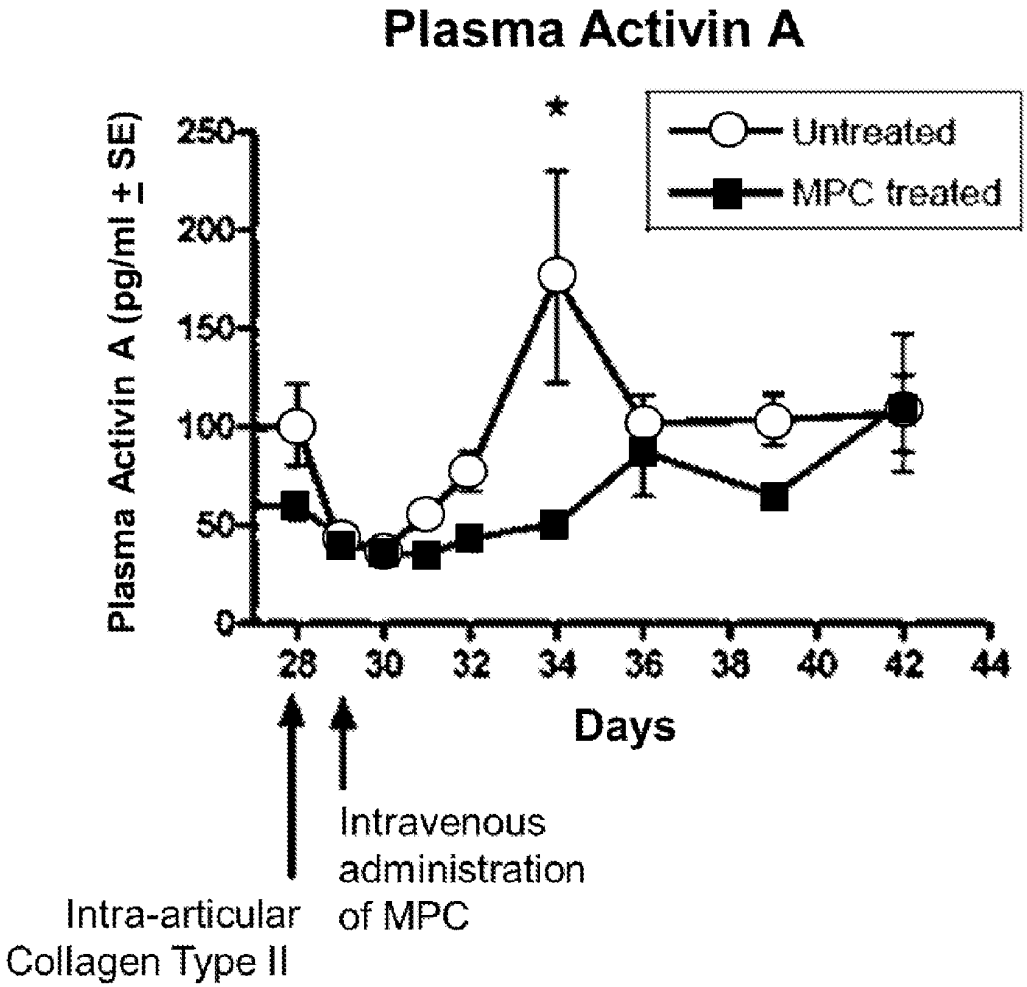

Plasma Activin A
Plasma Activin A (pg/ml ± SE)
250
200
150
100
50
0
28
30
32
34
36
38
40
42
44
Days
*
Untreated
MPC treated
Intra-articular
Collagen Type II
Intravenous
administration
of MPC

Figure 7

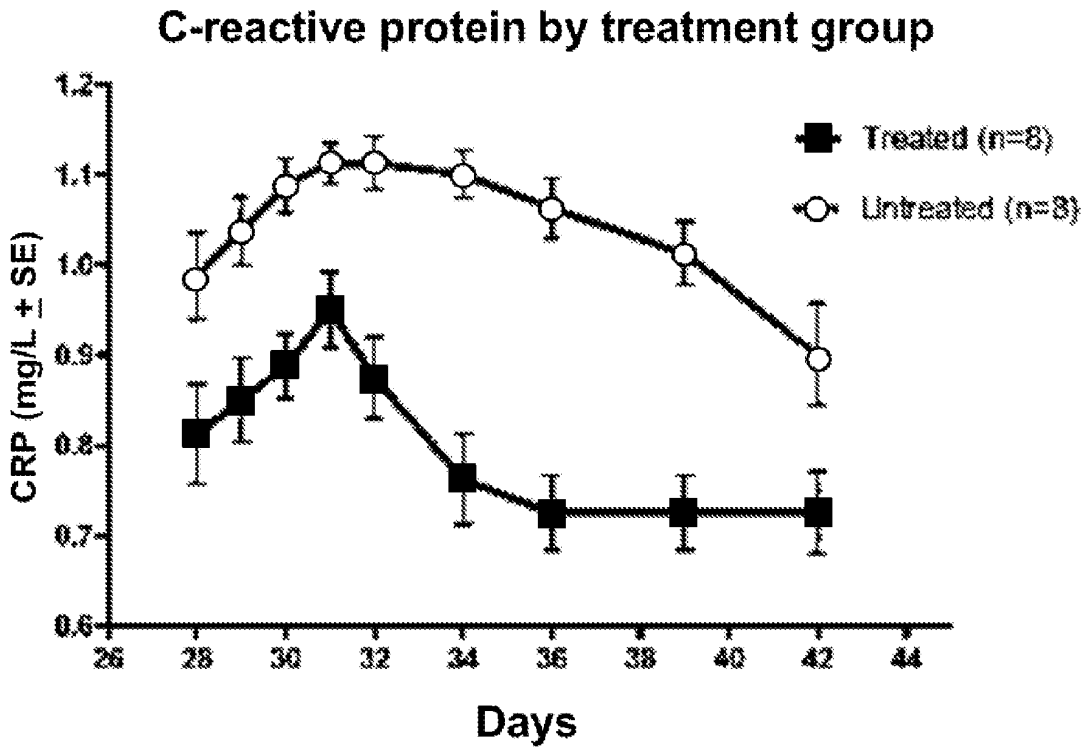

C-reactive protein by treatment group
Treated (n=8)
Untreated (n=8)
CRP (mg/L ± SE)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
26
28
30
32
34
36
38
40
42
44
Days

Figure 8

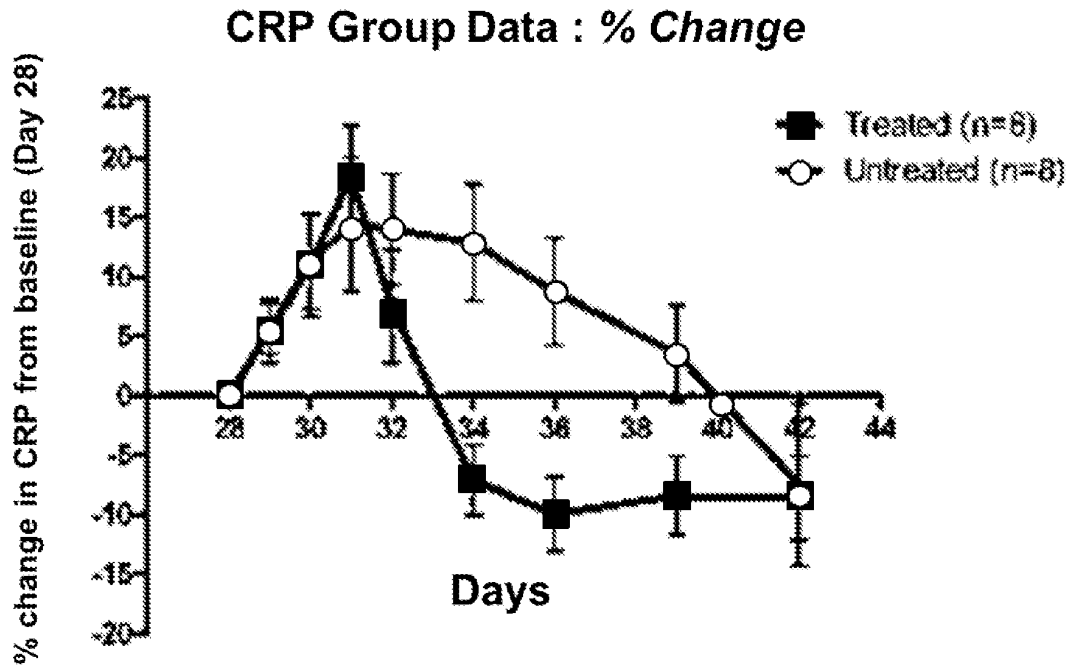

CRP Group Data : % Change
% change in CRP from baseline (Day 28)
Treated (n=8)
Untreated (n=8)
25
20
15
10
5
0
-5
-10
-15
-20
28
30
32
34
36
38
40
42
44
Days

Figure 9

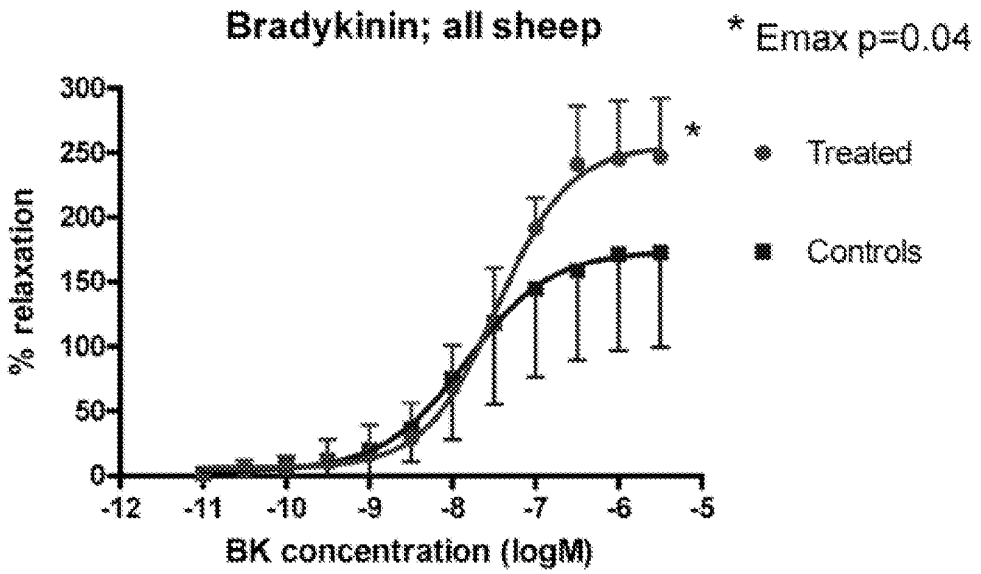


Figure 10A

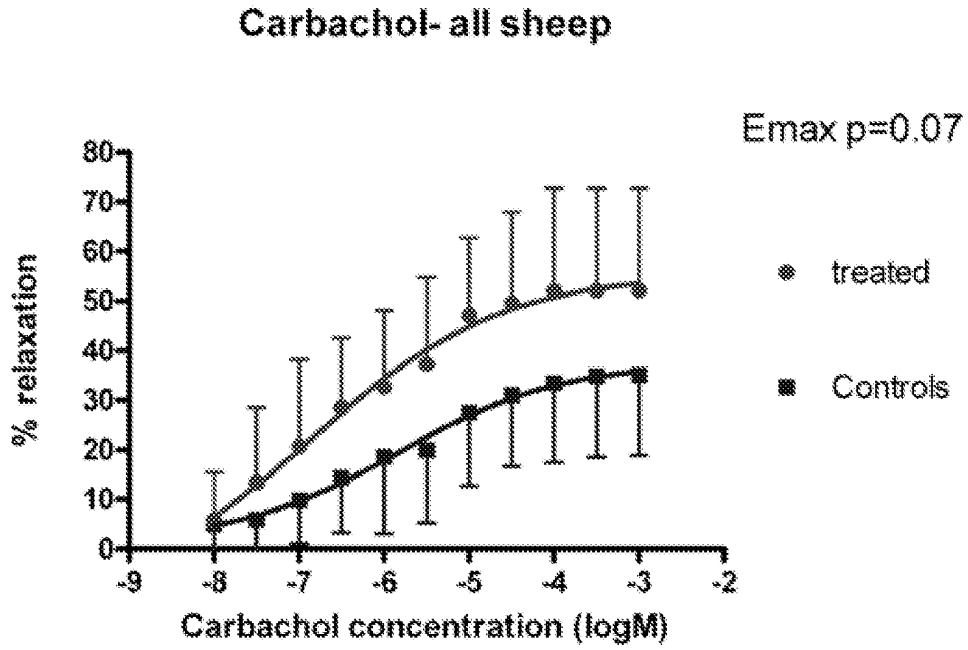


Figure 10B

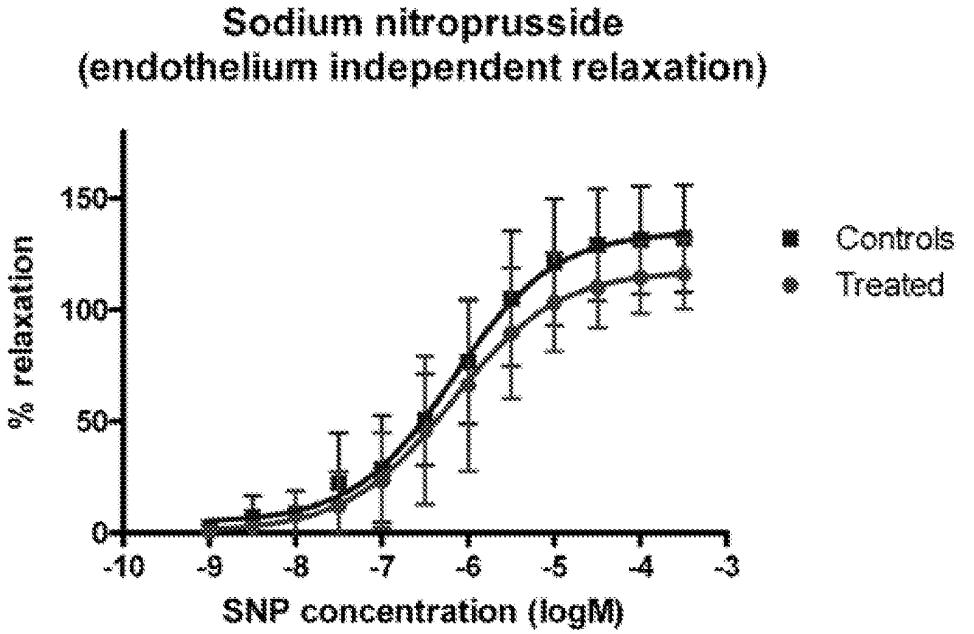


Figure 10C

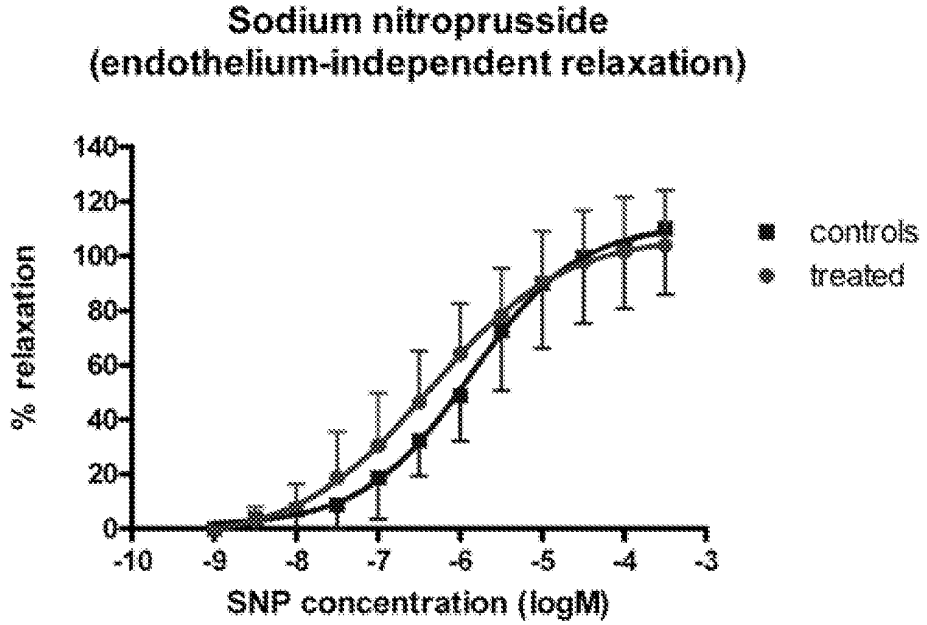


Figure 10D

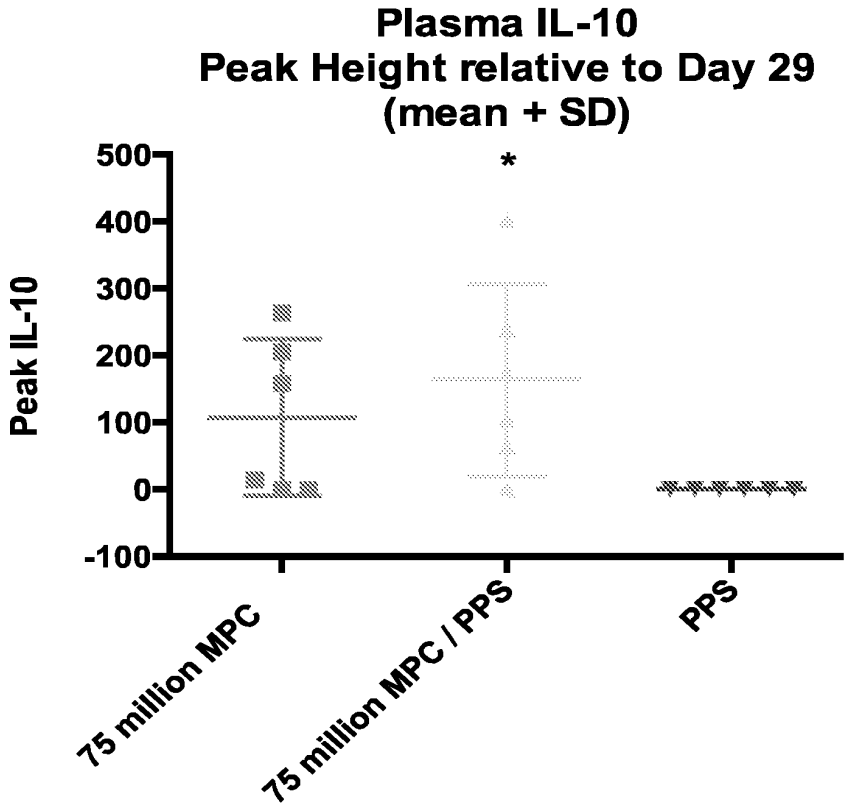

Plasma IL-10
Peak Height relative to Day 29
(mean + SD)
Peak IL-10
500
400
300
200
100
0
-100
*
75 million MPC
75 million MPC / PPS
PPS

Figure 11

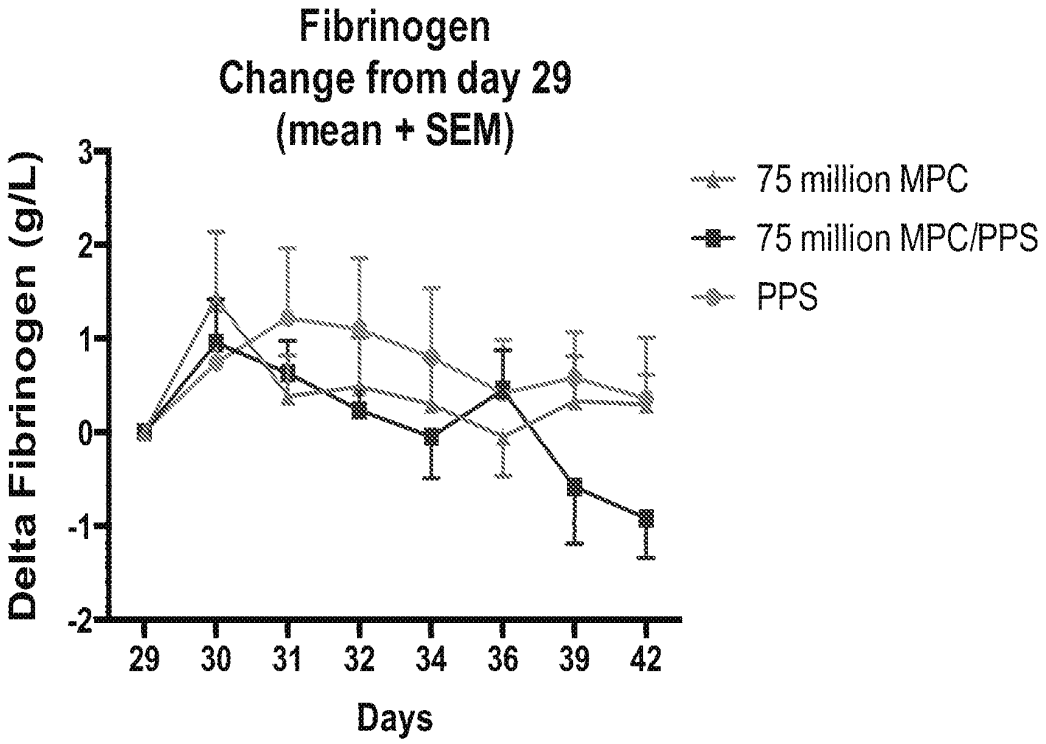

Fibrinogen
Change from day 29
(mean + SEM)
Delta Fibrinogen (g/L)
3
2
1
0
-1
-2
29
30
31
32
34
36
39
42
Days
75 million MPC
75 million MPC/PPS
PPS

Figure 12

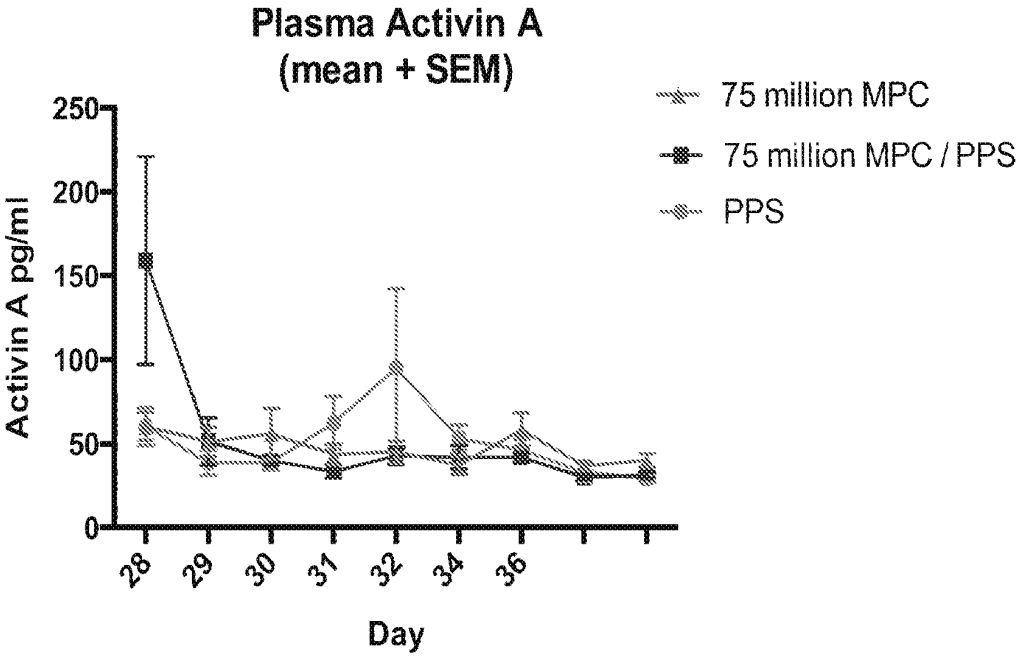

Plasma Activin A
(mean + SEM)
75 million MPC
75 million MPC / PPS
PPS
Activin A pg/ml
250
200
150
100
50
0
28
29
30
31
32
34
36
Day

Figure 13

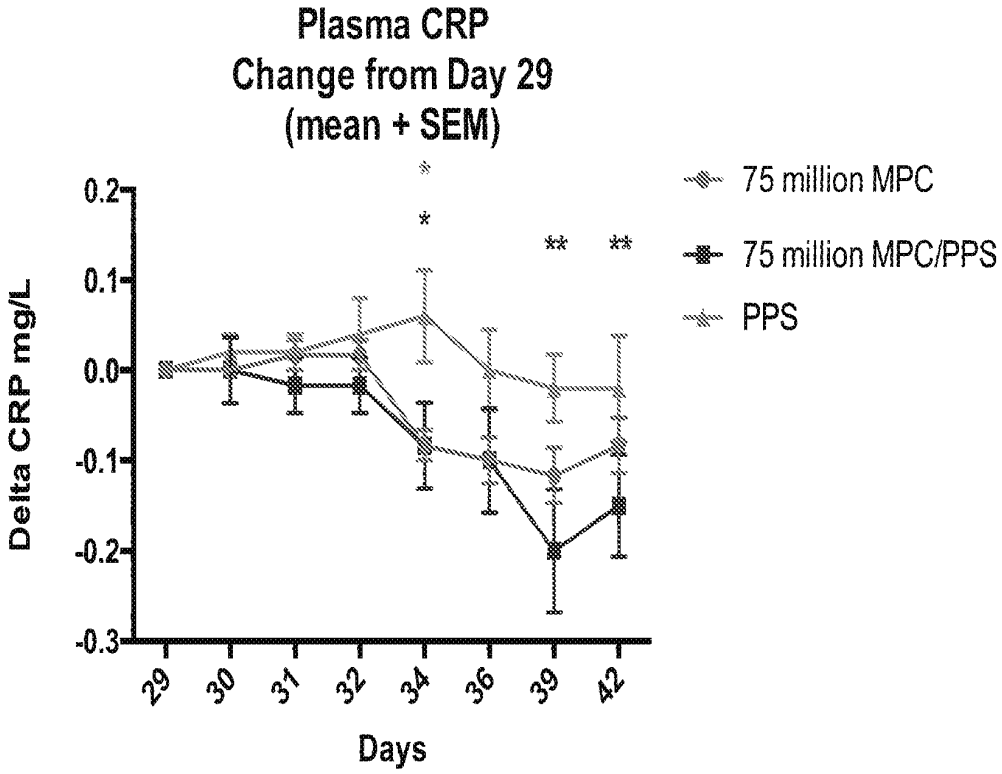

Plasma CRP
Change from Day 29
(mean + SEM)
Delta CRP mg/L
0.2
0.1
0.0
-0.1
-0.2
-0.3
29
30
31
32
34
36
39
42
Days
*
*
**
**
75 million MPC
75 million MPC/PPS
PPS

Figure 14

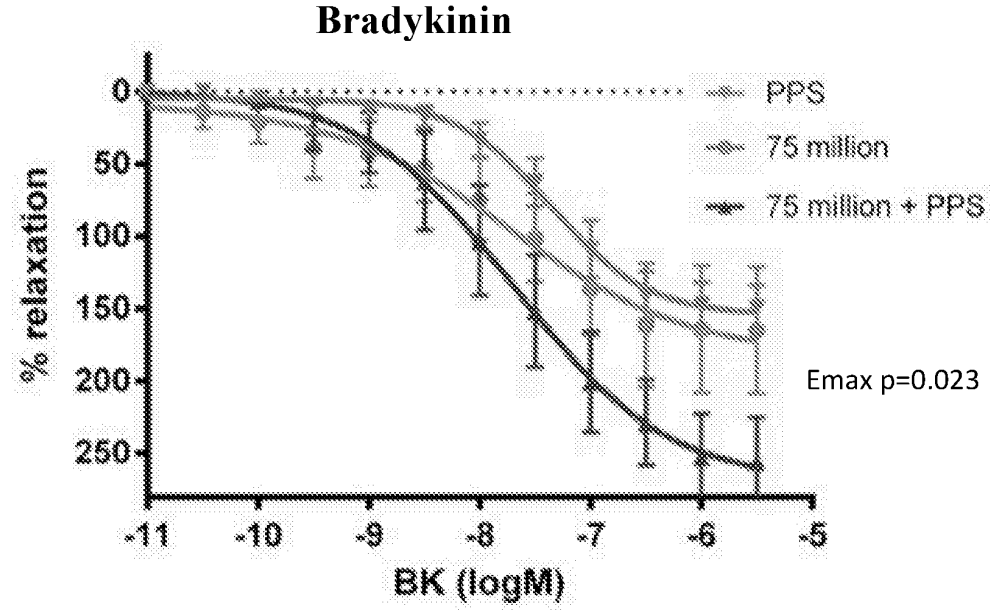


Figure 15A

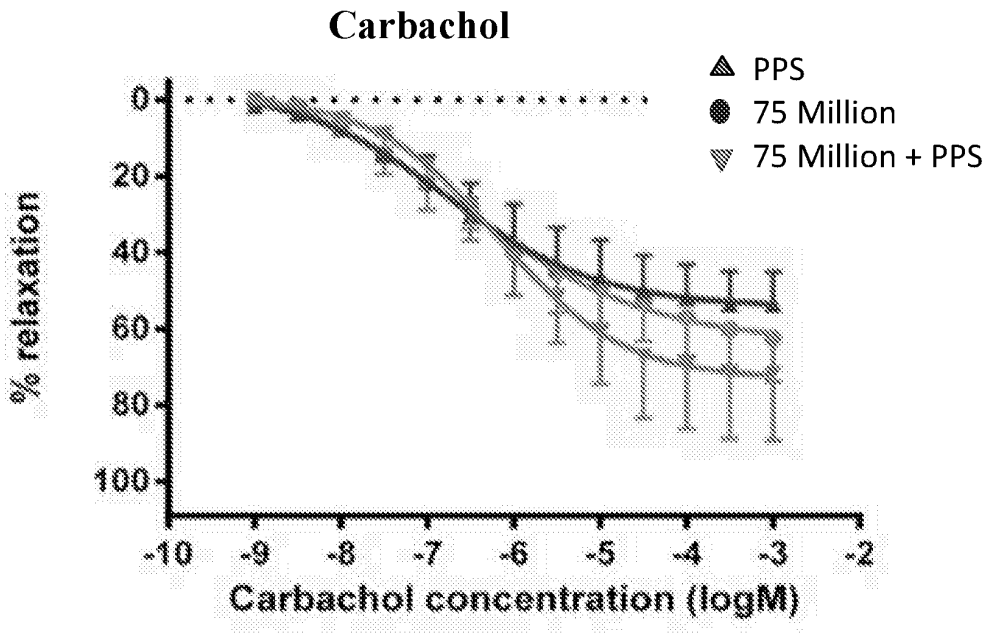


Figure 15B

Sodium nitroprusside
(endothelium independent relaxation

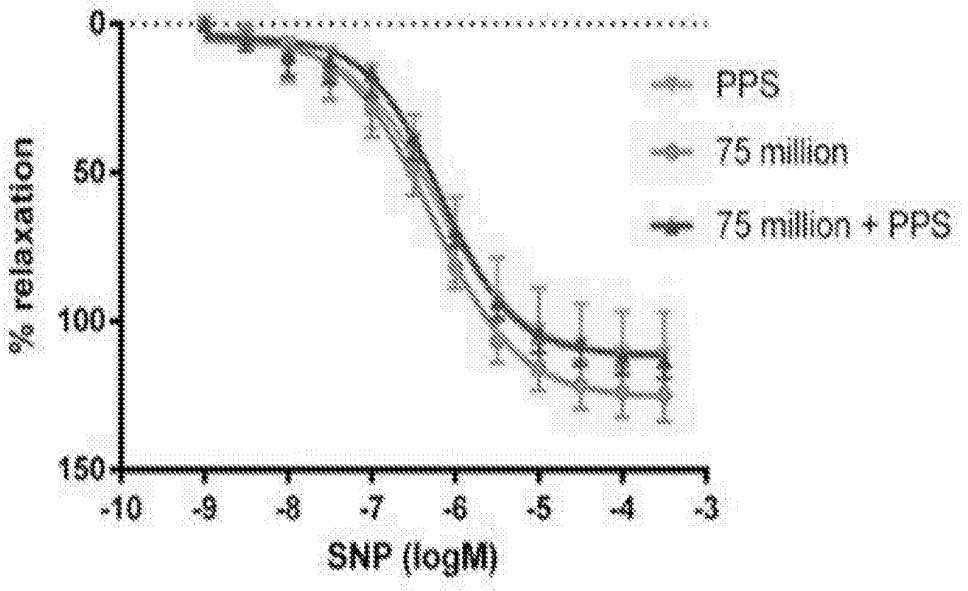


Figure 15C

Sodium nitroprusside
(endothelium independent relaxation

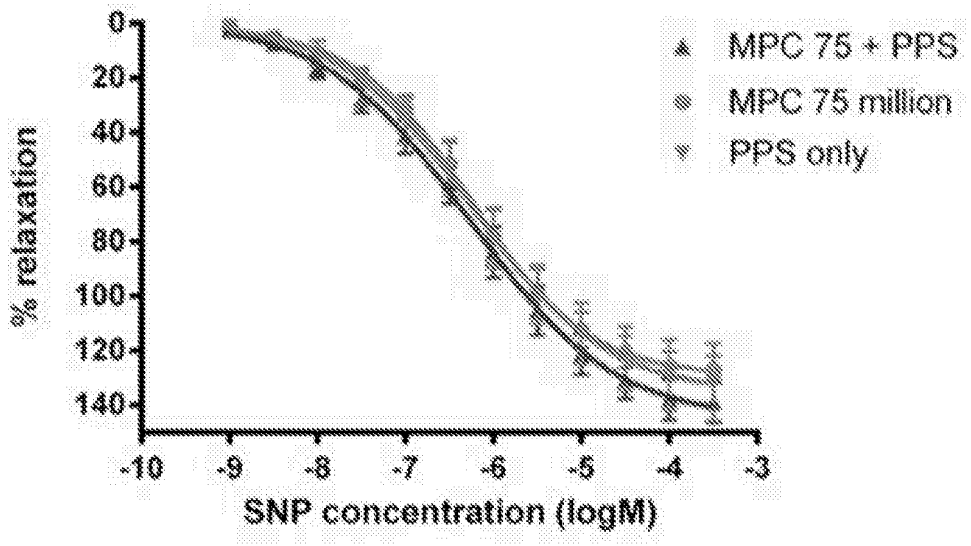


Figure 15D