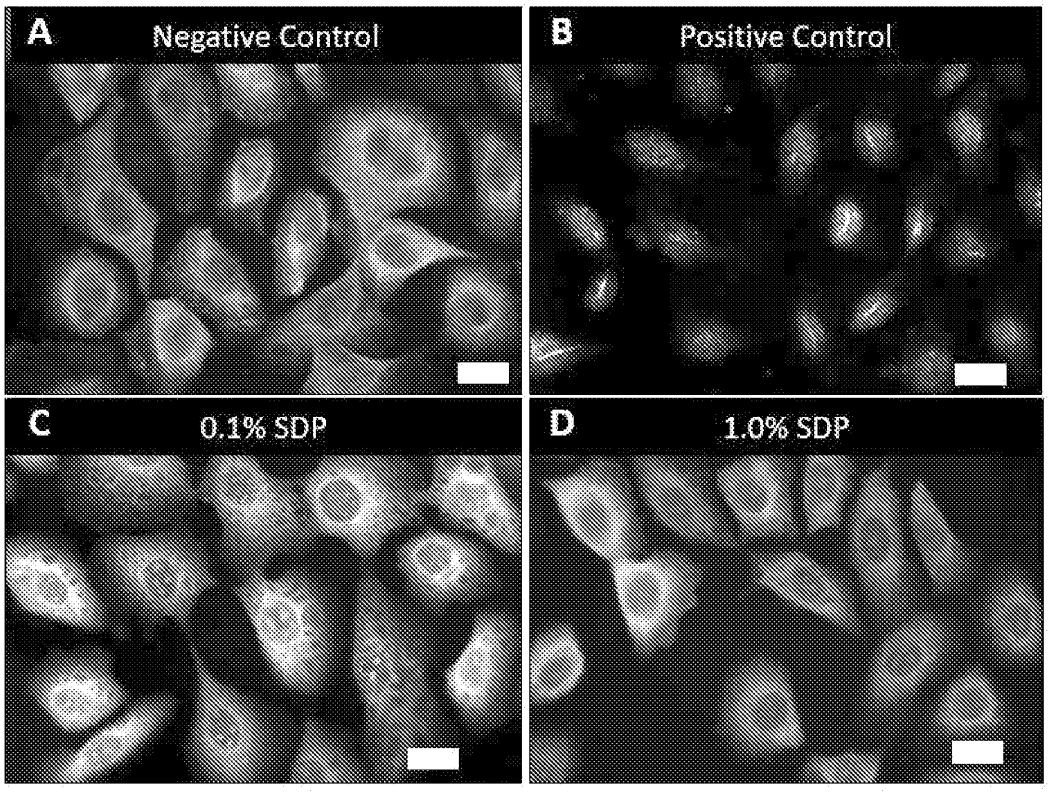

A
Negative Control
B
Positive Control
C
0.1% SDP
D
1.0% SDP

Fig. 1A-D

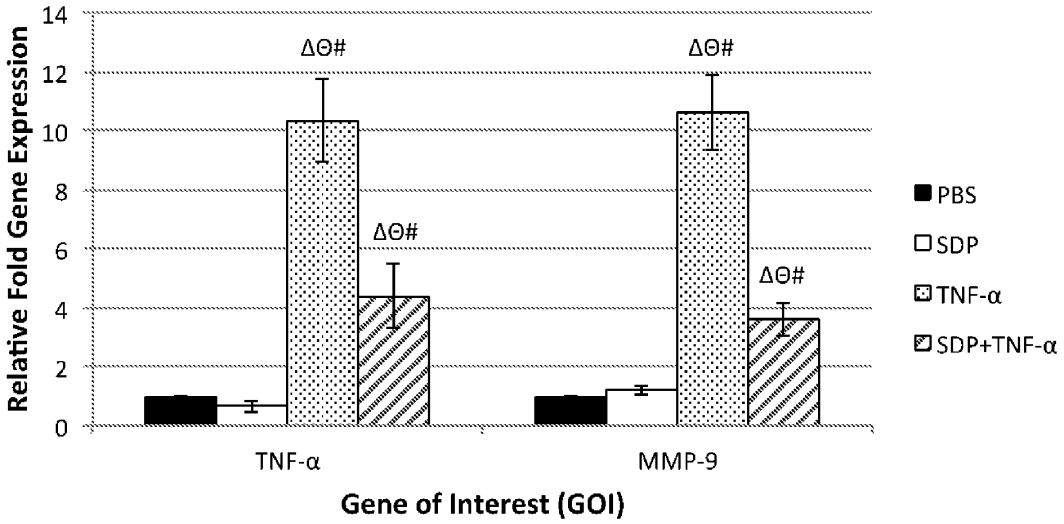
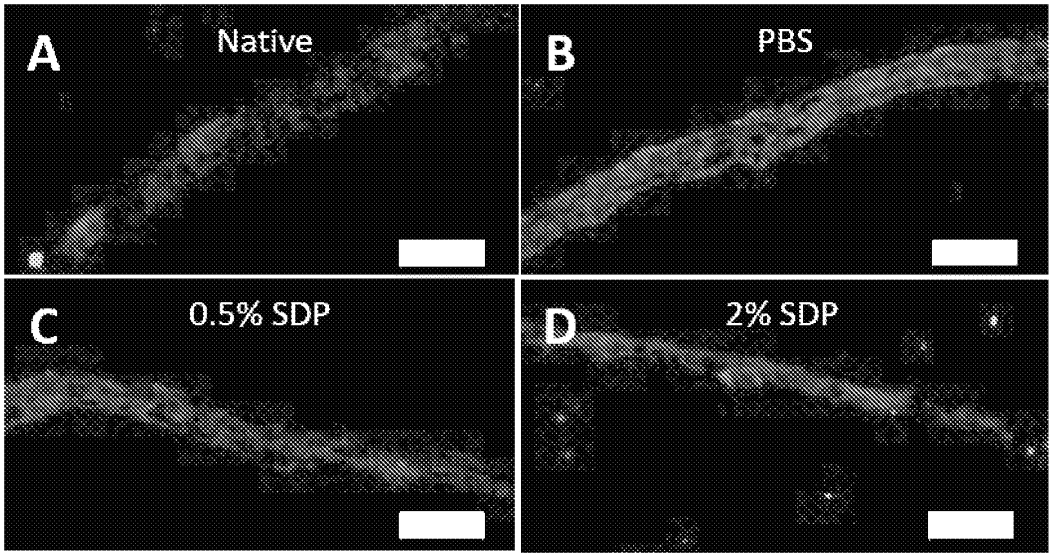

Relative Fold Gene Expression
14
12
10
8
6
4
2
0
ΔΘ#
ΔΘ#
ΔΘ#
ΔΘ#
TNF-α
MMP-9
Gene of Interest (GOI)
PBS
SDP
TNF-α
SDP+TNF-α

Fig. 2


A
Native
B
PBS
C
0.5% SDP
D
2% SDP

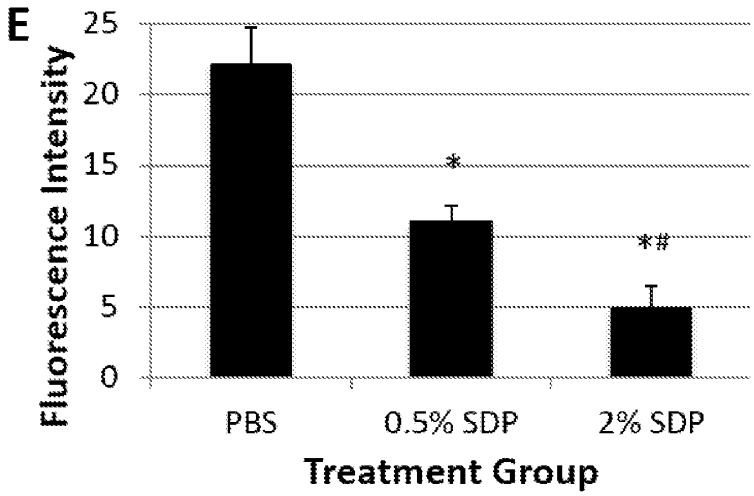

E
Fluorescence Intensity
25
20
15
10
5
0
*
*#
PBS
0.5% SDP
2% SDP
Treatment Group

Fig. 3A-E

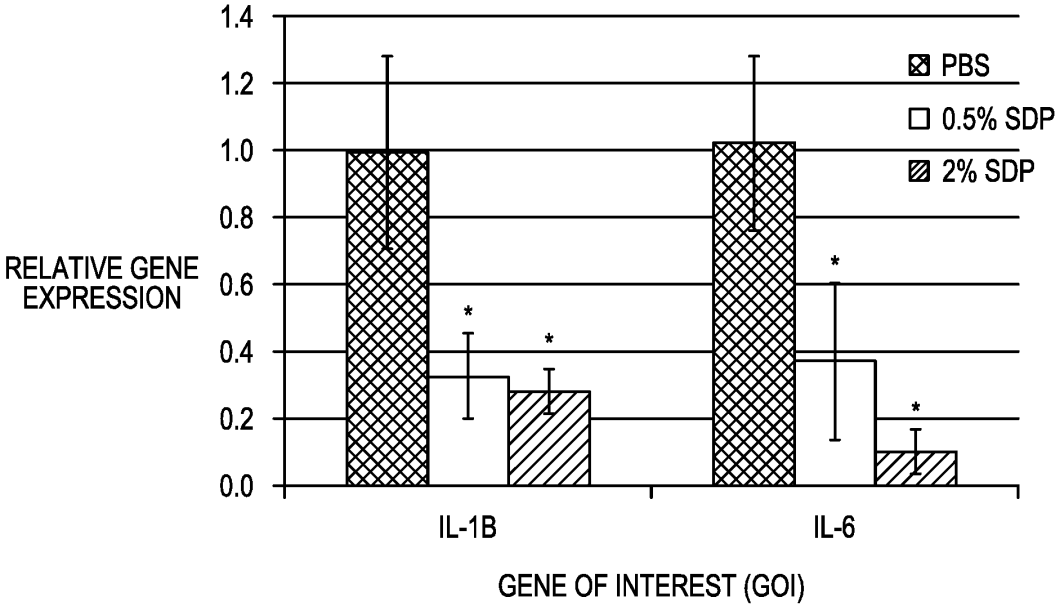

1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
RELATIVE GENE EXPRESSION
PBS
0.5% SDP
2% SDP
*
*
*
*
IL-1B
IL-6
GENE OF INTEREST (GOI)

Fig. 4

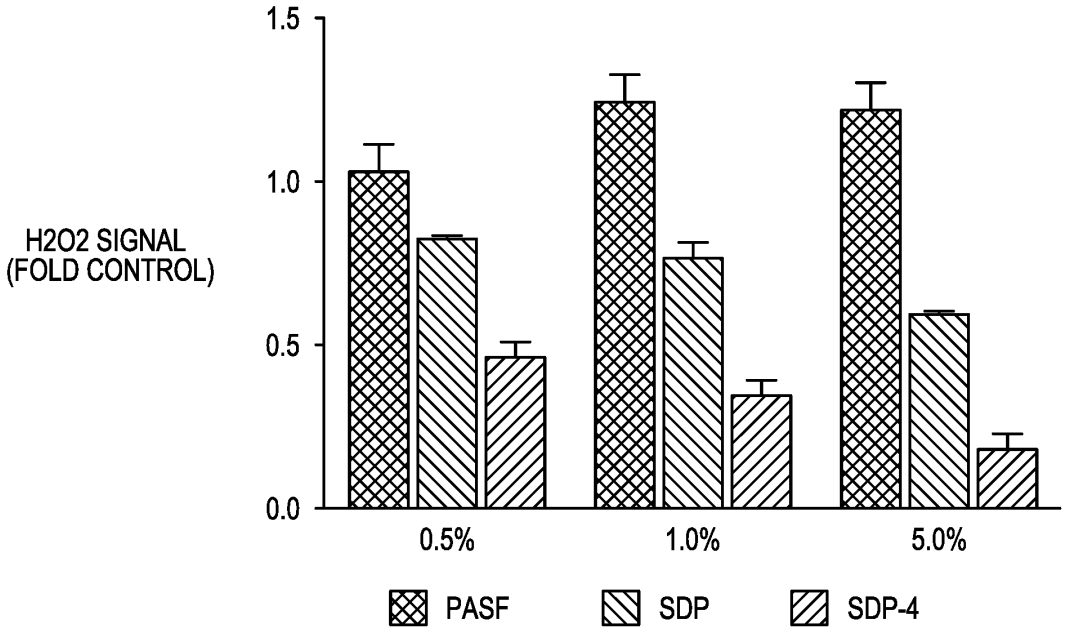

1.5
1.0
0.5
0.0
H2O2 SIGNAL (FOLD CONTROL)
0.5%
1.0%
5.0%
PASF
SDP
SDP-4

Fig. 5

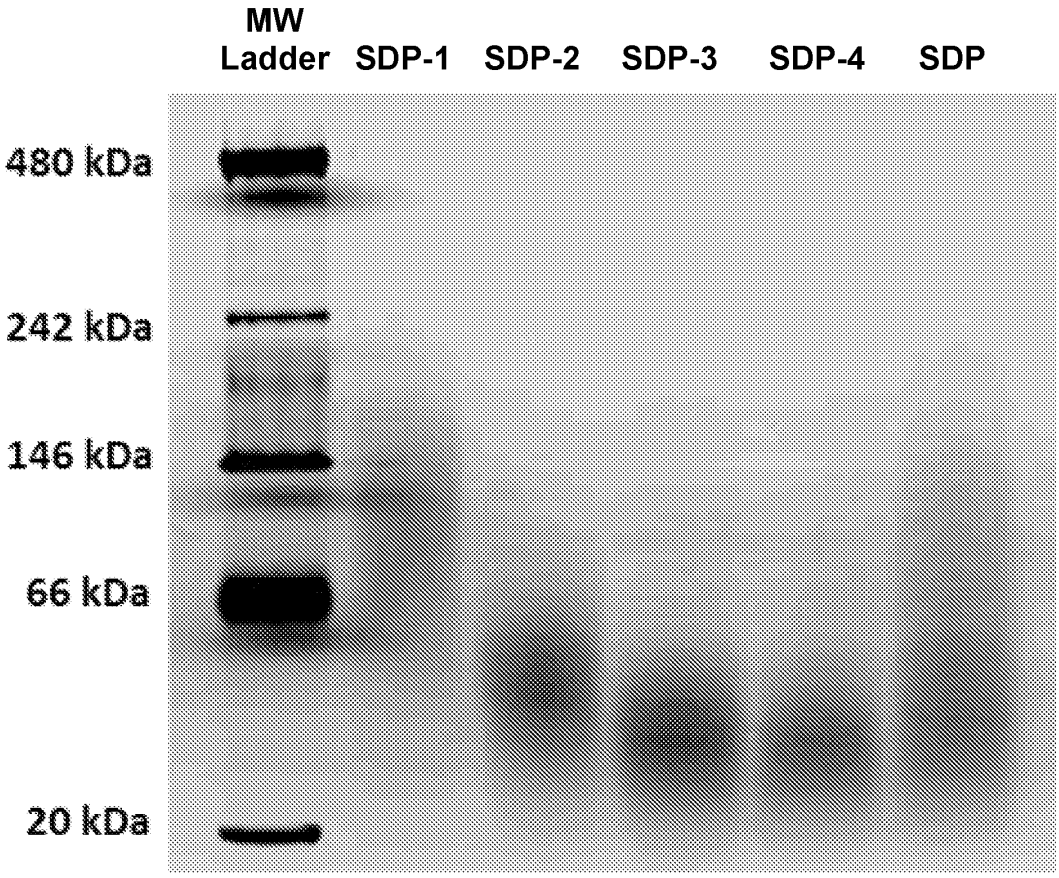

MW Ladder
SDP-1
SDP-2
SDP-3
SDP-4
SDP
480 kDa
242 kDa
146 kDa
66 kDa
20 kDa

Fig. 6

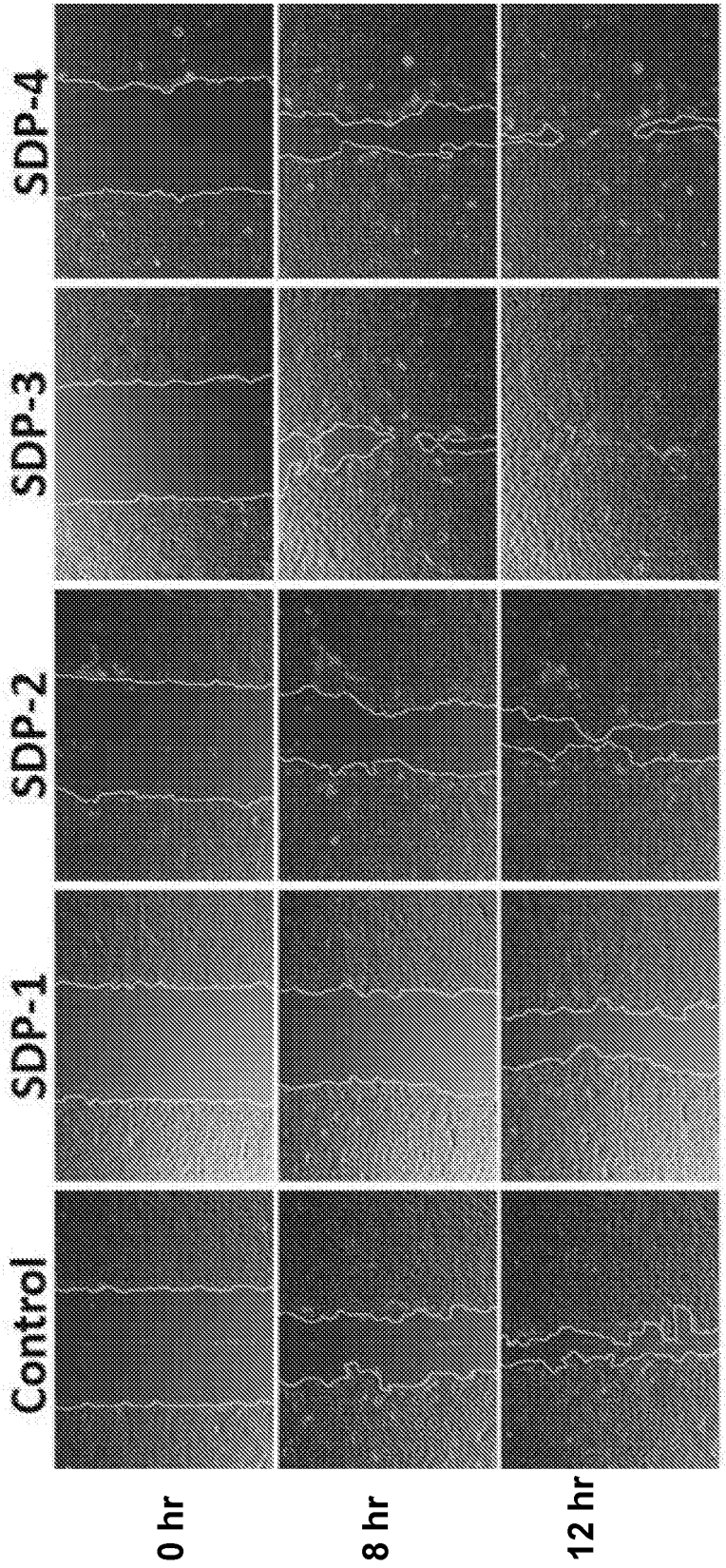


Fig. 7

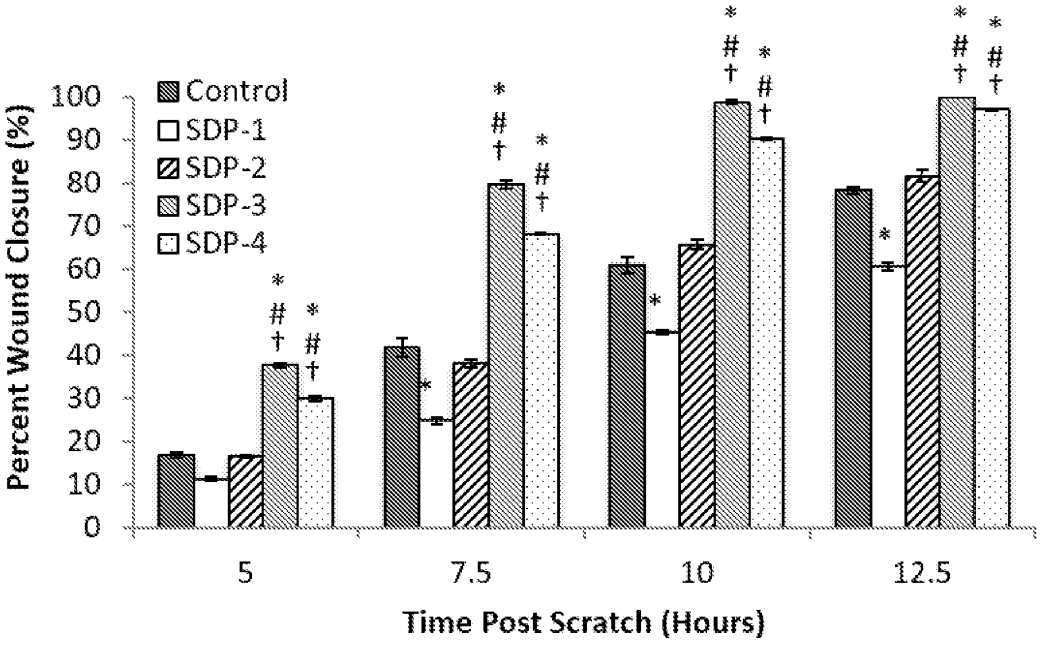

Percent Wound Closure (%)
100
90
80
70
60
50
40
30
20
10
0
Control
SDP-1
SDP-2
SDP-3
SDP-4
5
7.5
10
12.5
Time Post Scratch (Hours)

Fig. 8

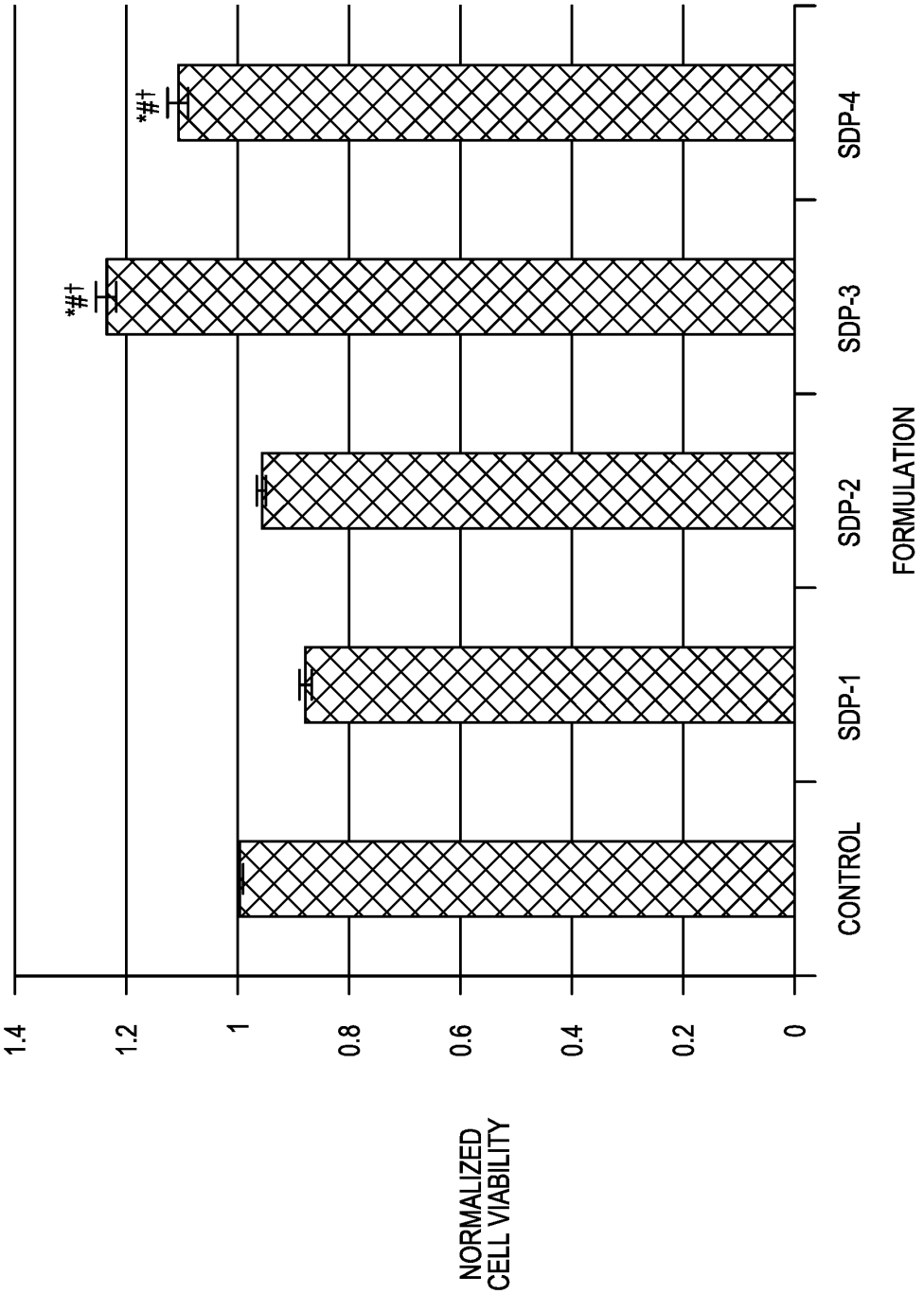

NORMALIZED CELL VIABILITY
1.4
1.2
1
0.8
0.6
0.4
0.2
0
CONTROL
SDP-1
SDP-2
SDP-3
SDP-4
FORMULATION
*#†
*#†

Fig. 9

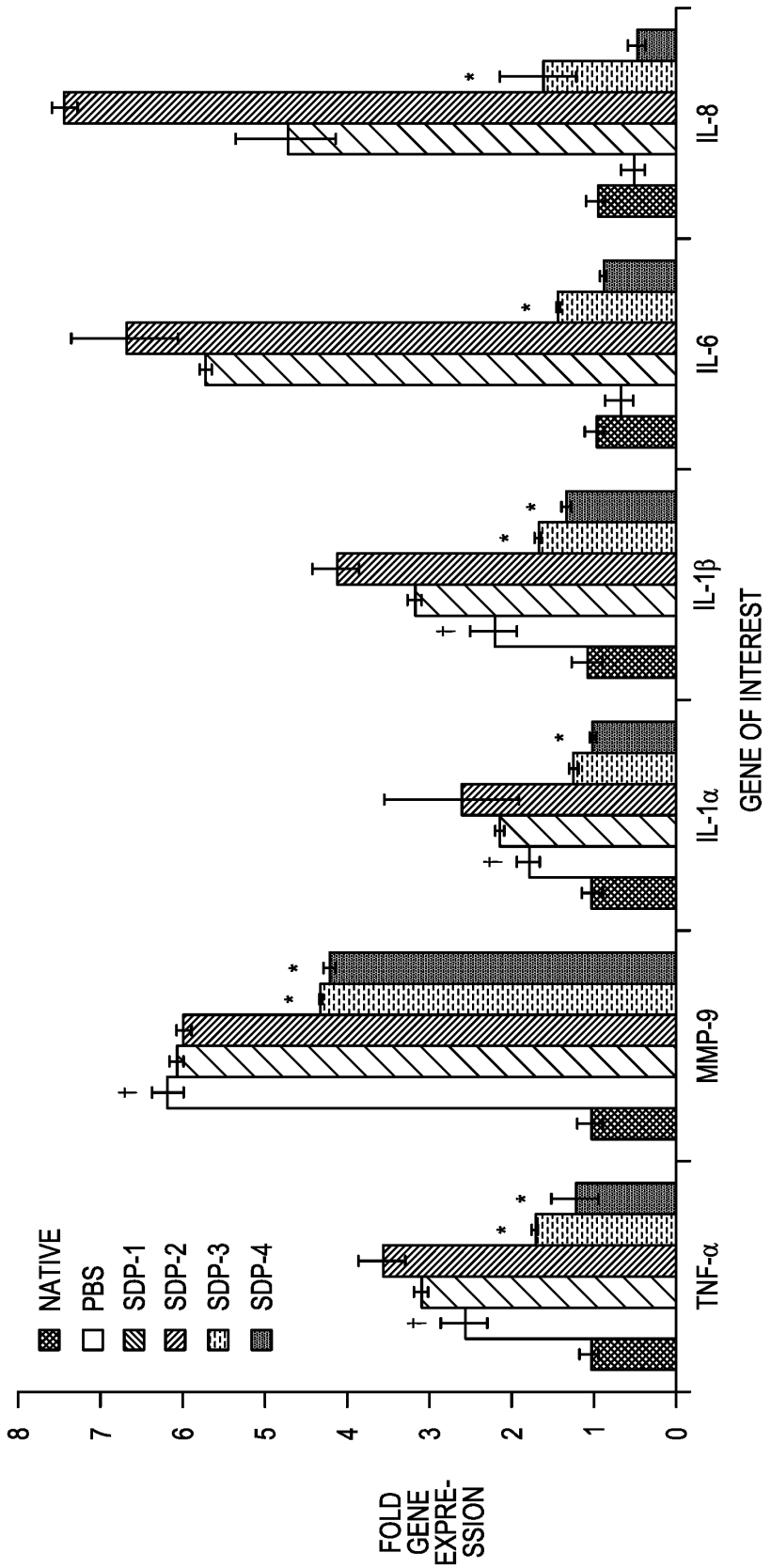

NATIVE
PBS
SDP-1
SDP-2
SDP-3
SDP-4
FOLD GENE EXPRE-SSION
0
1
2
3
4
5
6
7
8
TNF-α
MMP-9
IL-1α
IL-1β
IL-6
IL-8
GENE OF INTEREST

Fig. 10

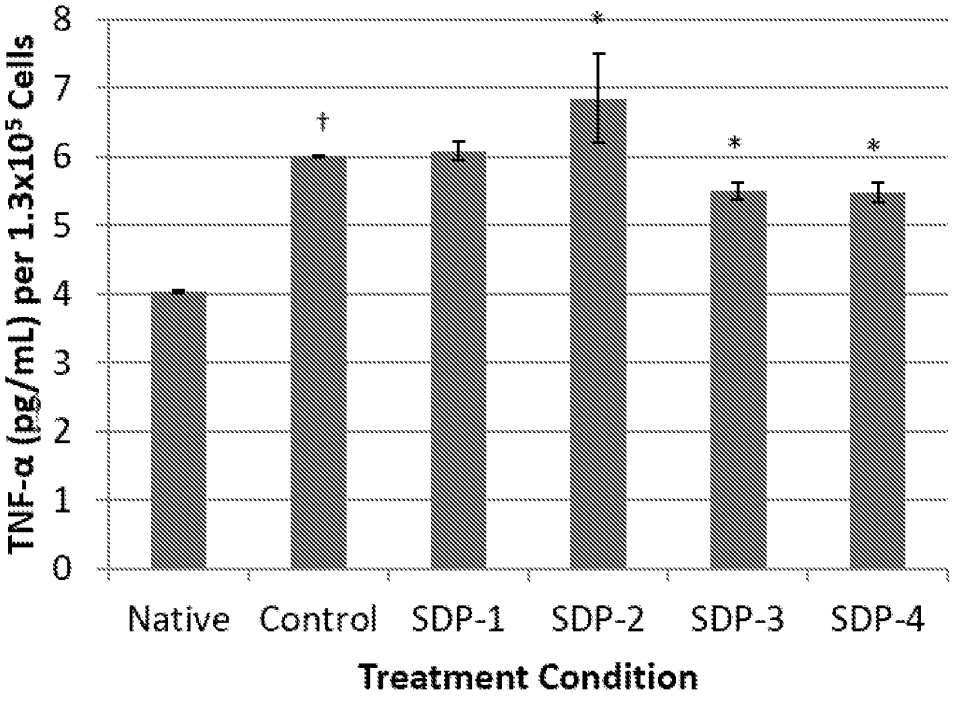

TNF-α (pg/mL) per 1.3x10⁵ Cells
0
1
2
3
4
5
6
7
8
*
†
*
*
Native
Control
SDP-1
SDP-2
SDP-3
SDP-4
Treatment Condition

Fig. 11

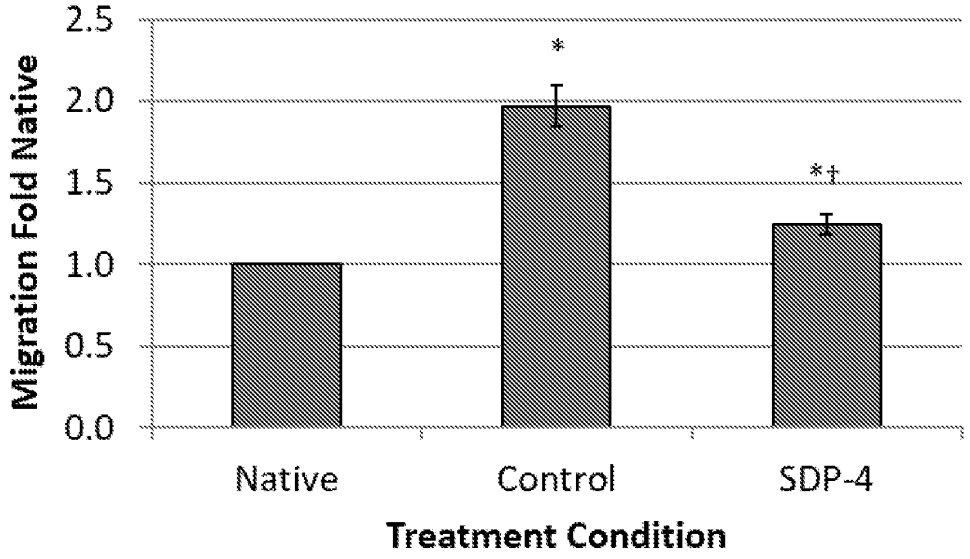

Migration Fold Native
0.0
0.5
1.0
1.5
2.0
2.5
*
*†
Native
Control
SDP-4
Treatment Condition

Fig. 12