

FIG. 1A

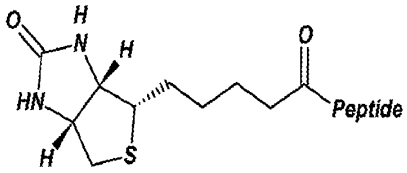


FIG. 1B

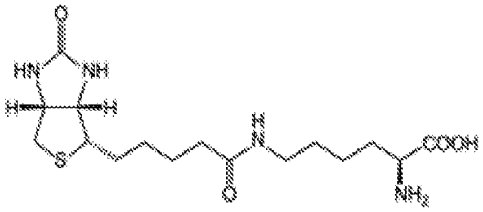


FIG. 1C

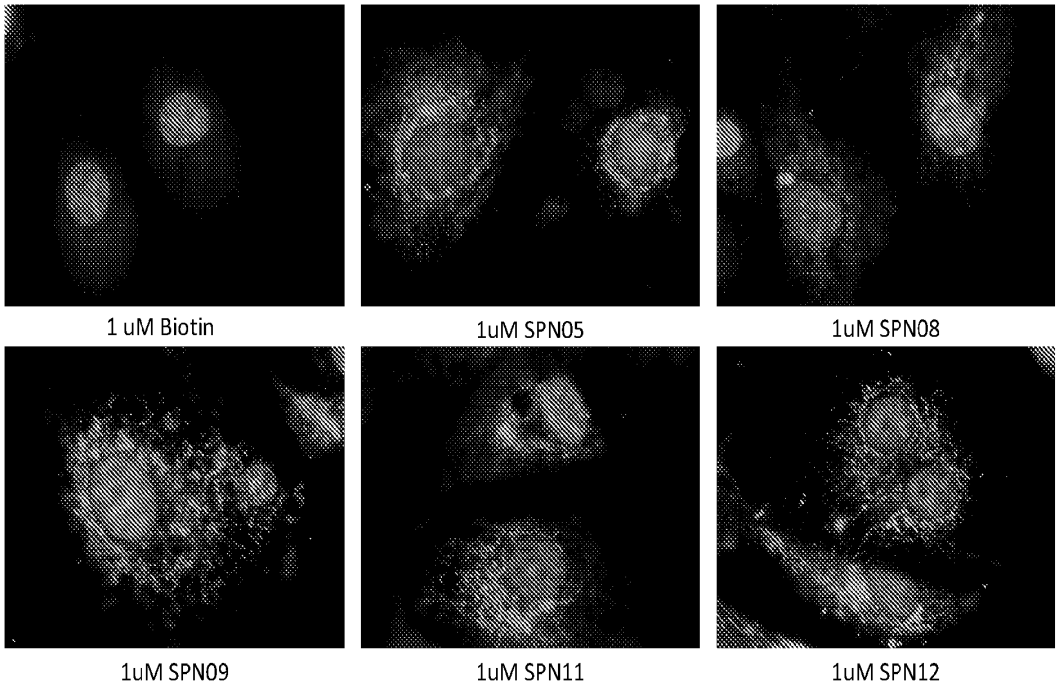


FIG. 2

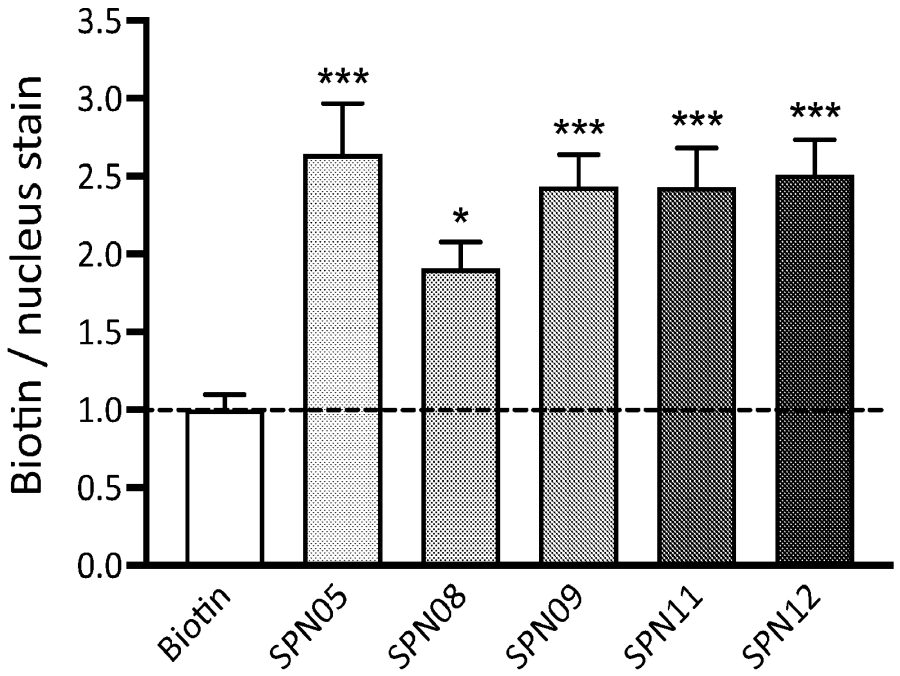

Biotin / nucleus stain
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
***
*
***
***
***
Biotin
SPN05
SPN08
SPN09
SPN11
SPN12

FIG. 3

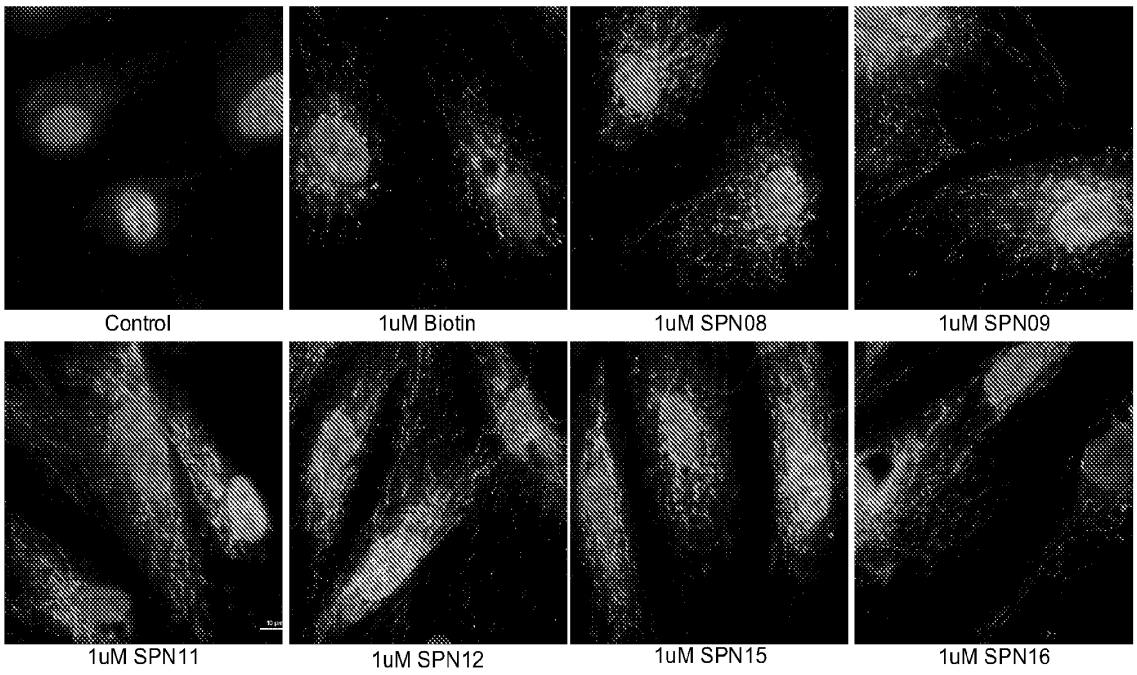

Control
1uM Biotin
1uM SPN08
1uM SPN09
1uM SPN11
1uM SPN12
1uM SPN15
1uM SPN16

FIG. 4

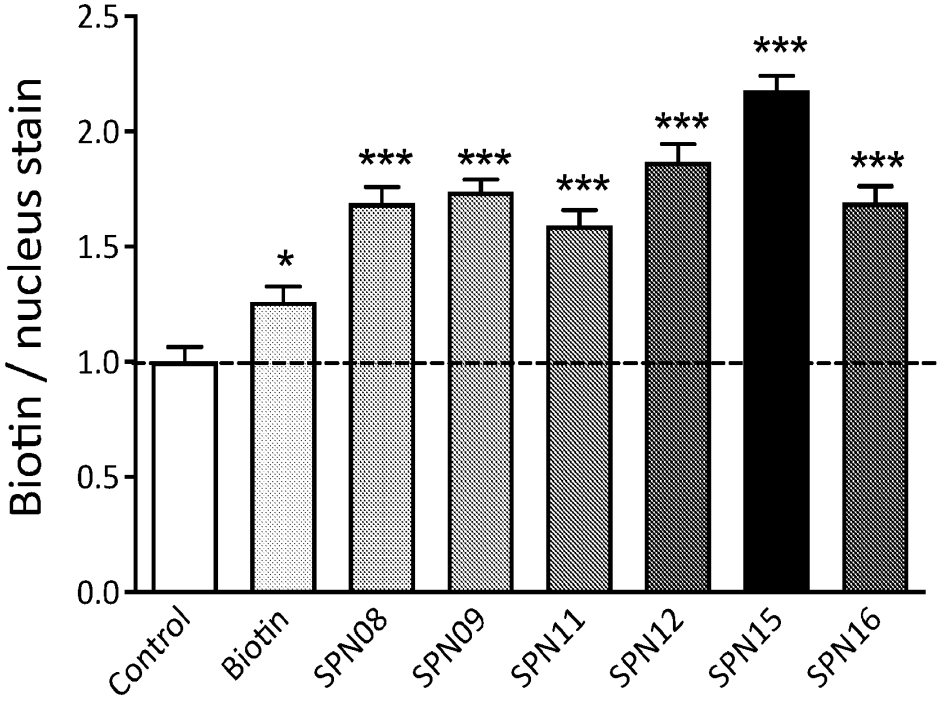

Biotin / nucleus stain
2.5
2.0
1.5
1.0
0.5
0.0
*
***
***
***
***
***
***
Control
Biotin
SPN08
SPN09
SPN11
SPN12
SPN15
SPN16

FIG. 5

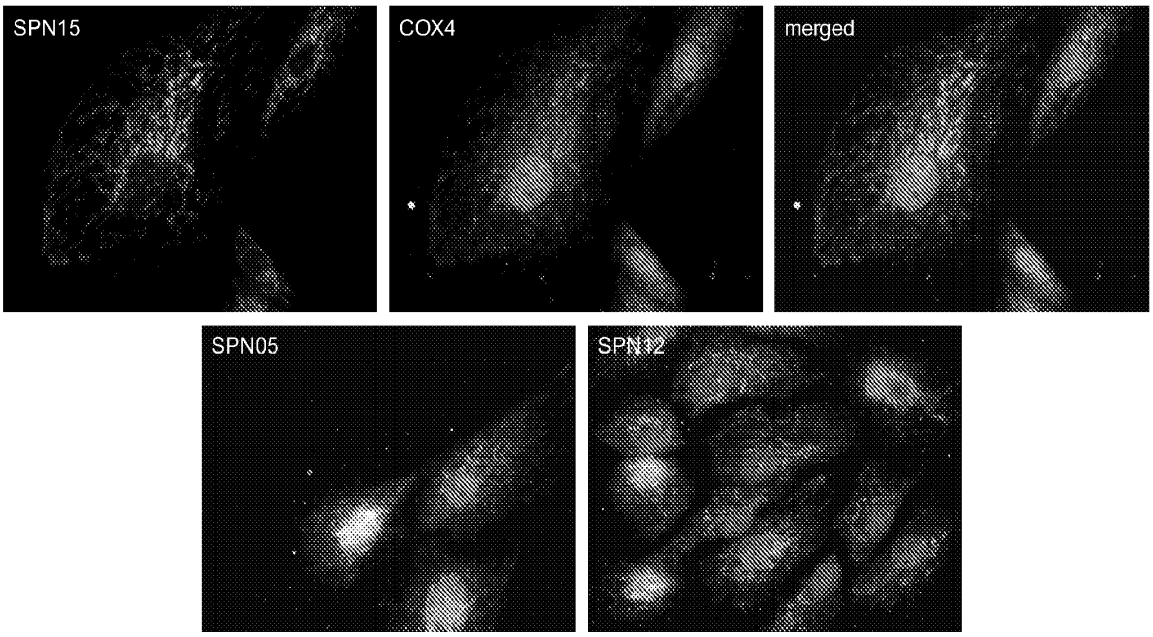


FIG. 6

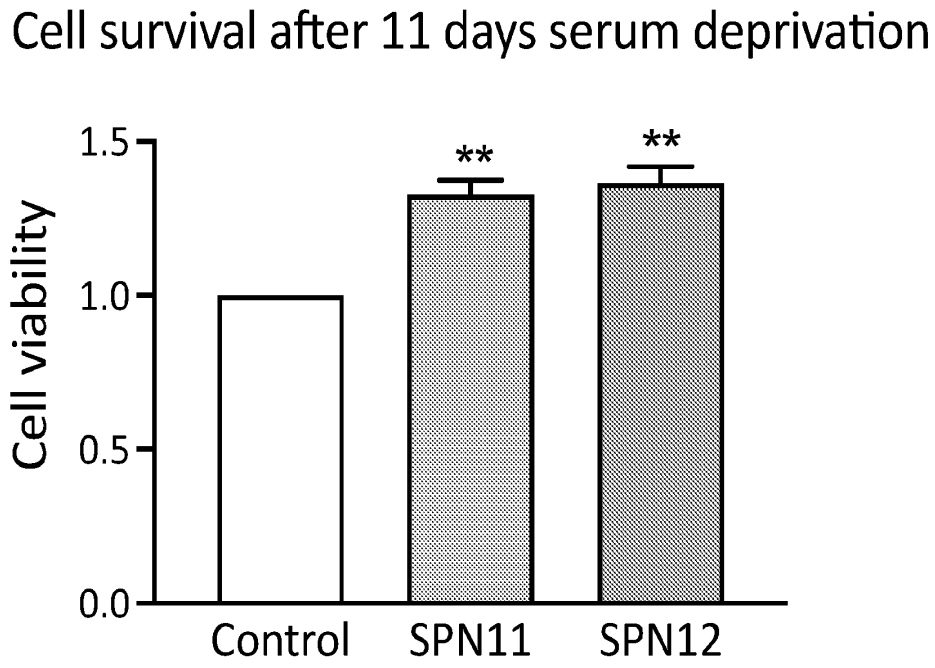

Cell survival after 11 days serum deprivation
Cell viability
1.5
1.0
0.5
0.0
**
**
Control
SPN11
SPN12

FIG. 7

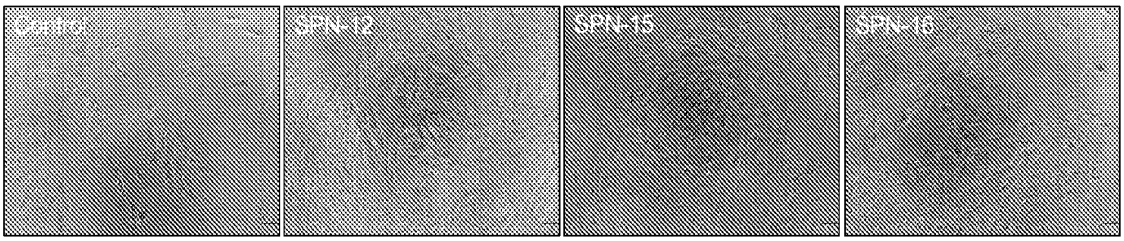


FIG. 8

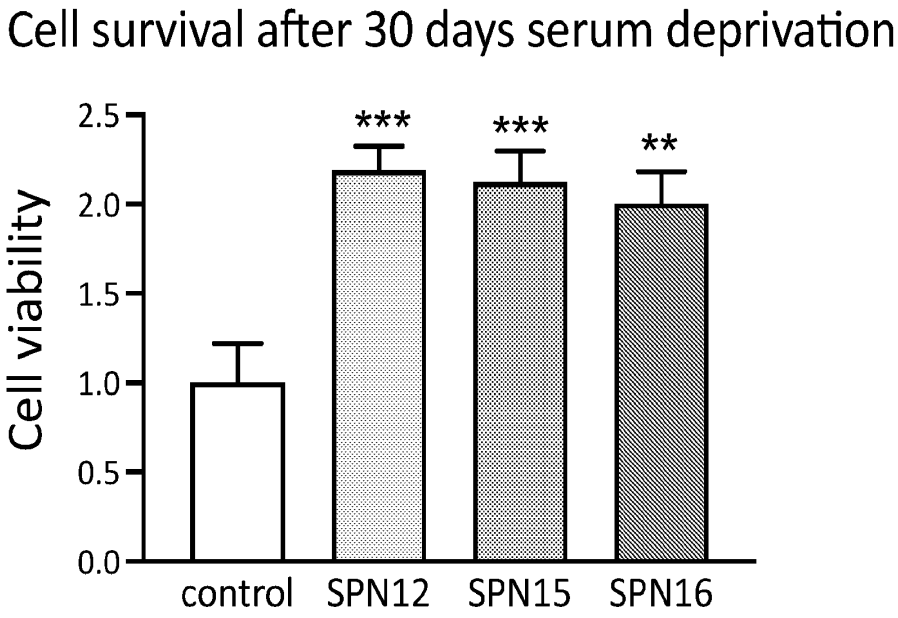

Cell survival after 30 days serum deprivation
Cell viability
2.5
2.0
1.5
1.0
0.5
0.0
***
***
**
control
SPN12
SPN15
SPN16

FIG. 9

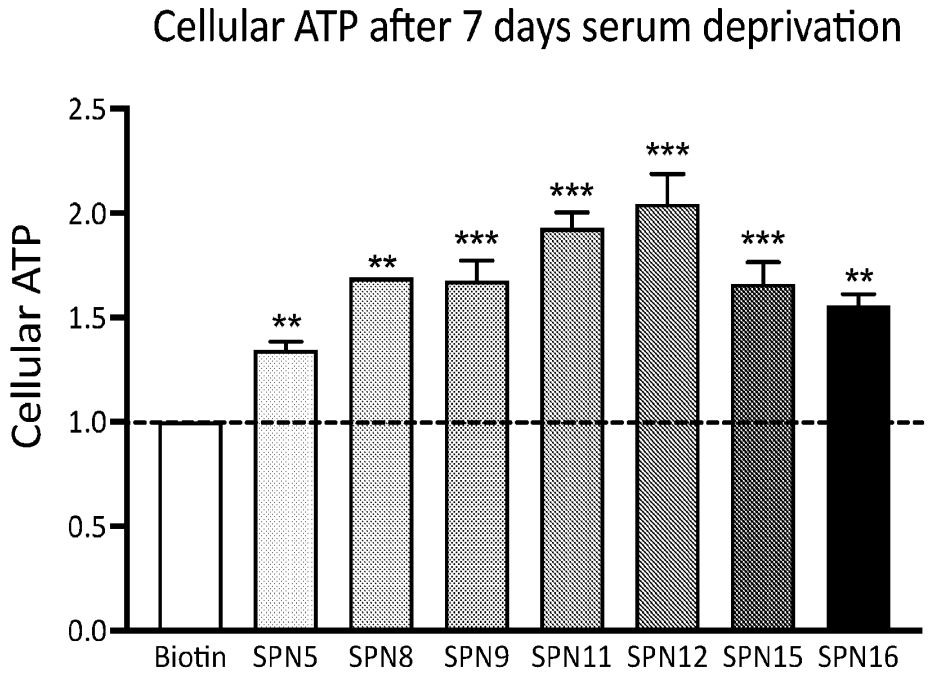

Cellular ATP after 7 days serum deprivation
Cellular ATP
2.5
2.0
1.5
1.0
0.5
0.0
**
**
***
***
***
***
**
Biotin
SPN5
SPN8
SPN9
SPN11
SPN12
SPN15
SPN16

FIG. 10

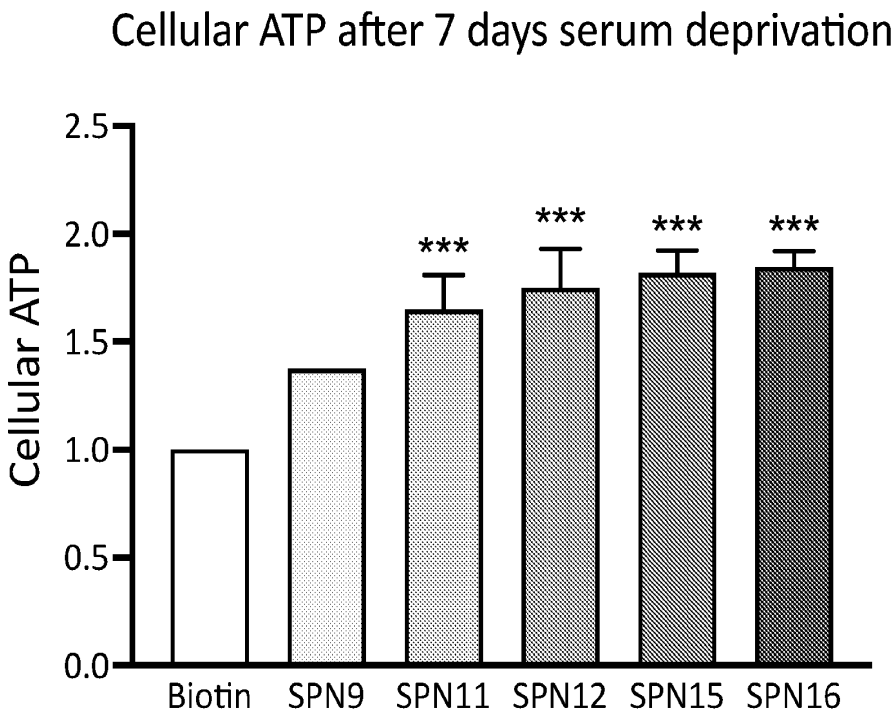

Cellular ATP after 7 days serum deprivation
Cellular ATP
2.5
2.0
1.5
1.0
0.5
0.0
***
***
***
***
Biotin
SPN9
SPN11
SPN12
SPN15
SPN16

FIG. 11

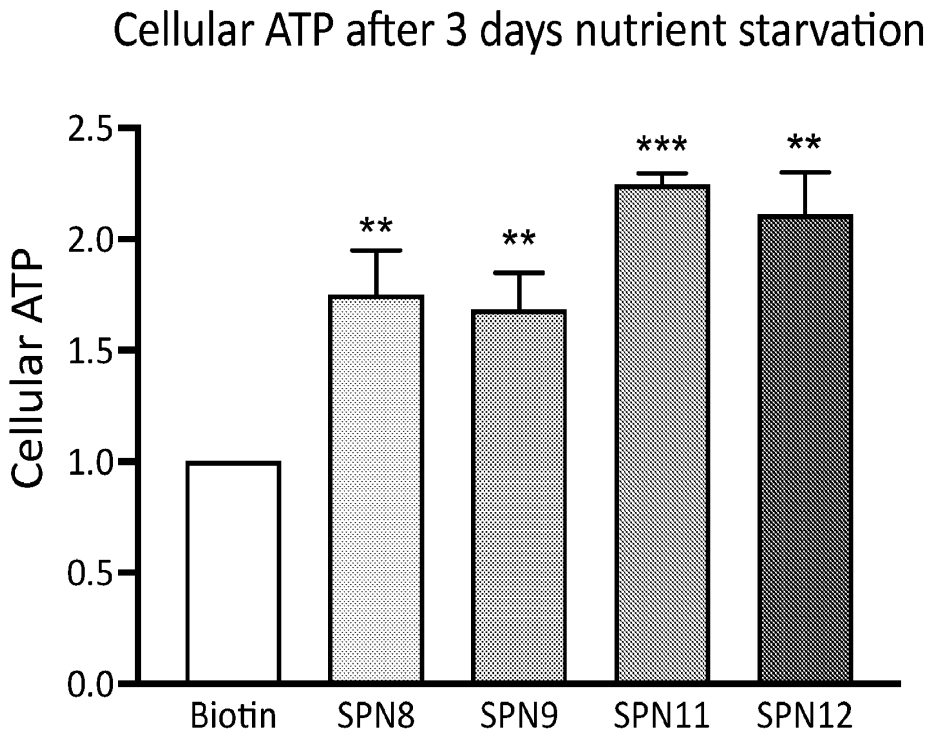

Cellular ATP after 3 days nutrient starvation
Cellular ATP
2.5
2.0
1.5
1.0
0.5
0.0
**
**
***
**
Biotin
SPN8
SPN9
SPN11
SPN12

FIG. 12

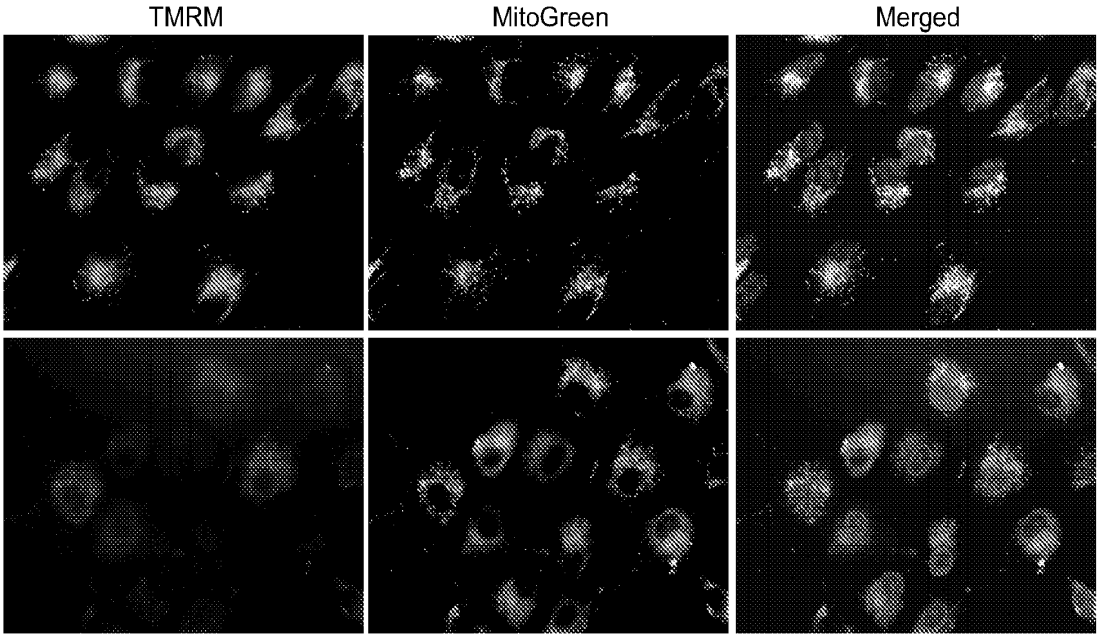


FIG. 13

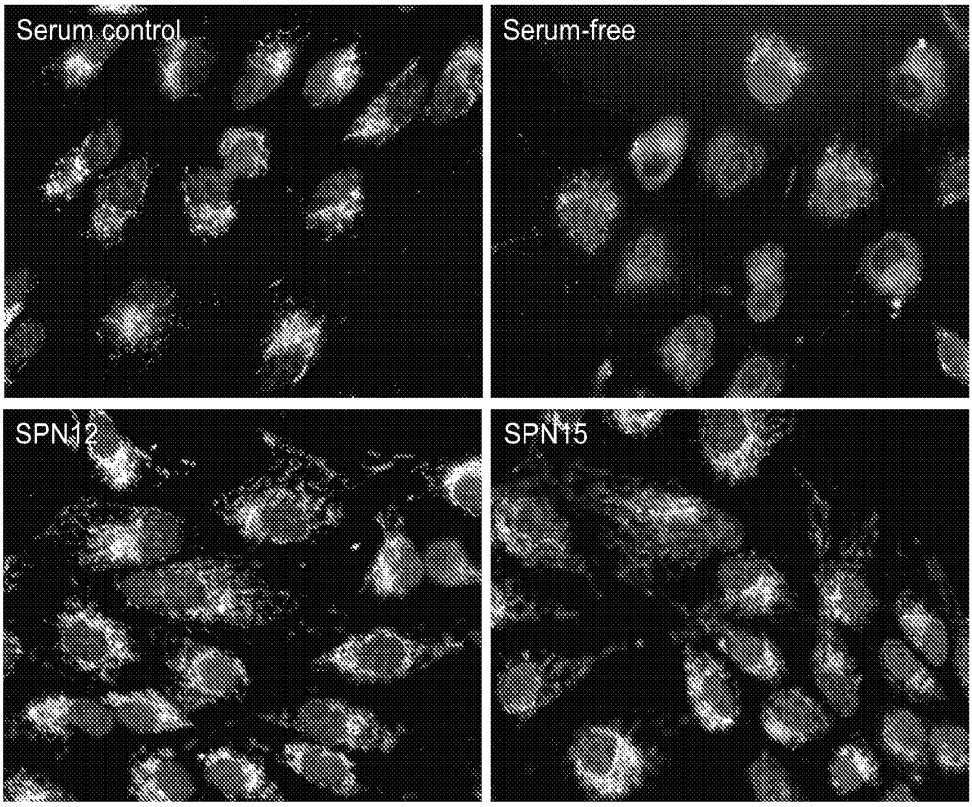


FIG. 14

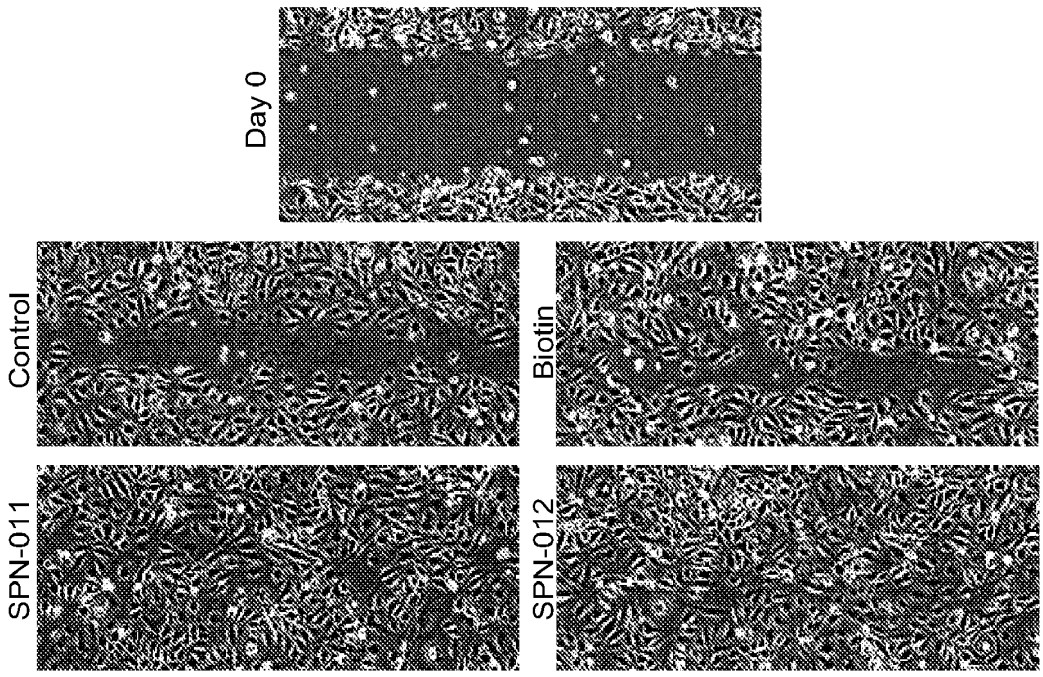


FIG. 15

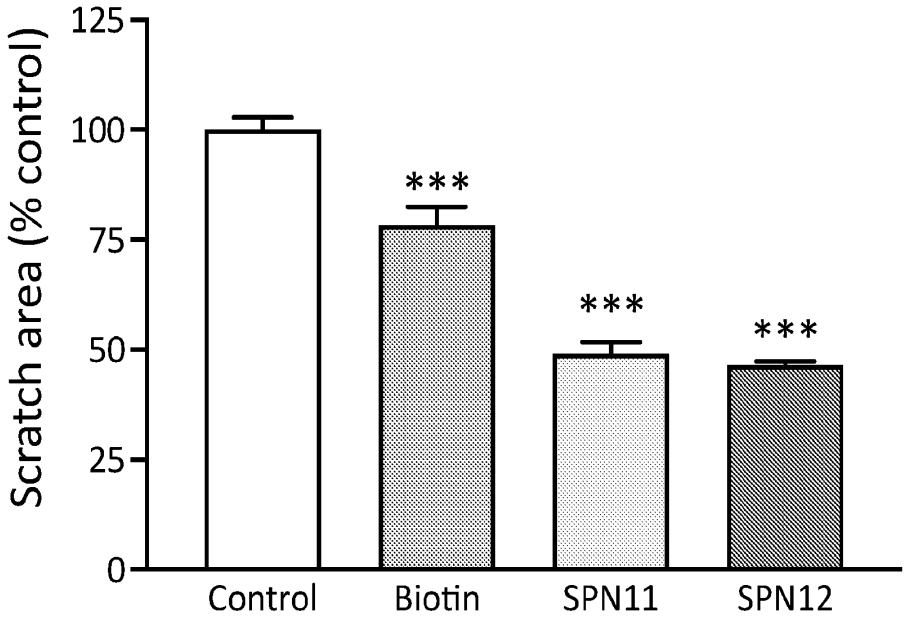

Scratch area (% control)
125
100
75
50
25
0
***
***
***
Control
Biotin
SPN11
SPN12

FIG. 16

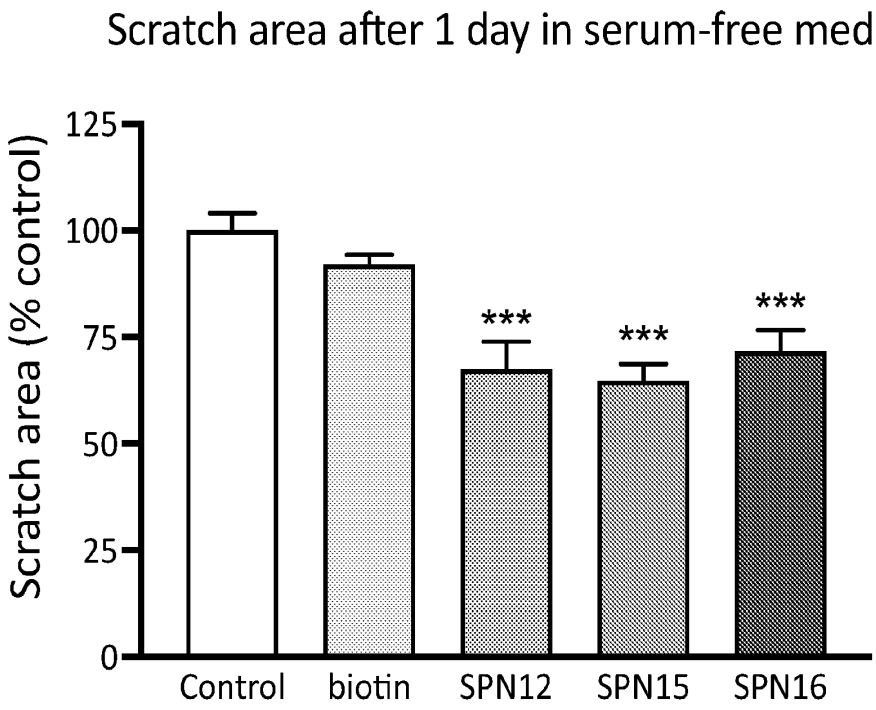

Scratch area after 1 day in serum-free media
Scratch area (% control)
125
100
75
50
25
0
***
***
***
Control
biotin
SPN12
SPN15
SPN16

FIG. 17

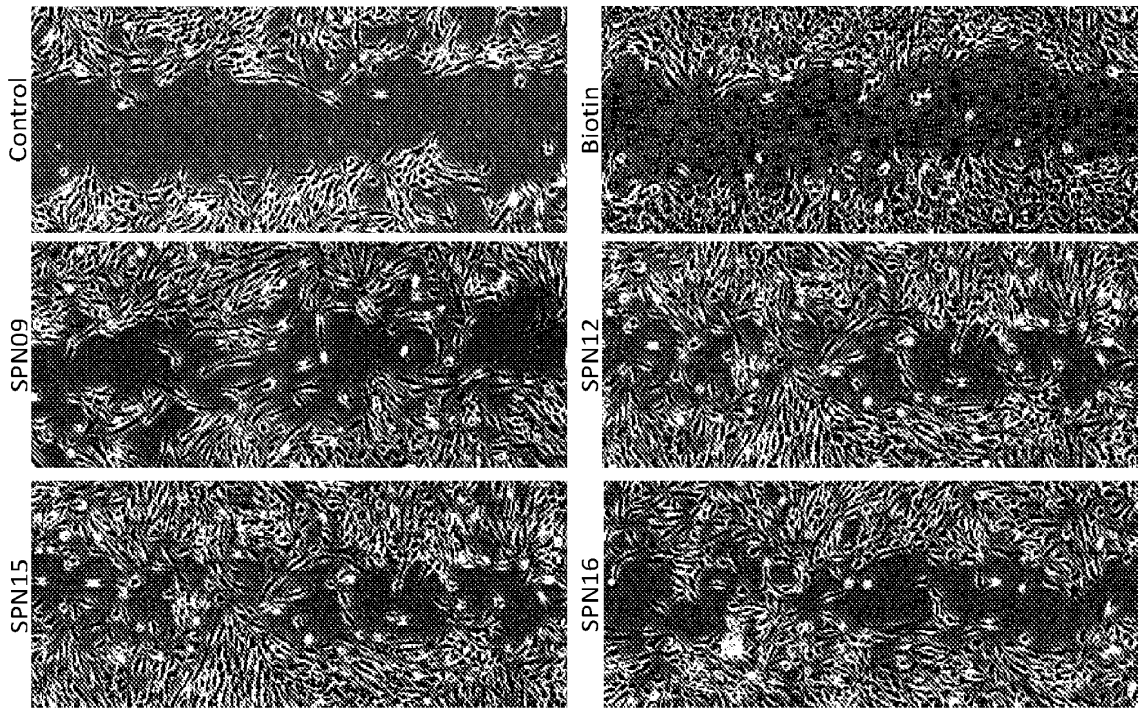


FIG. 18

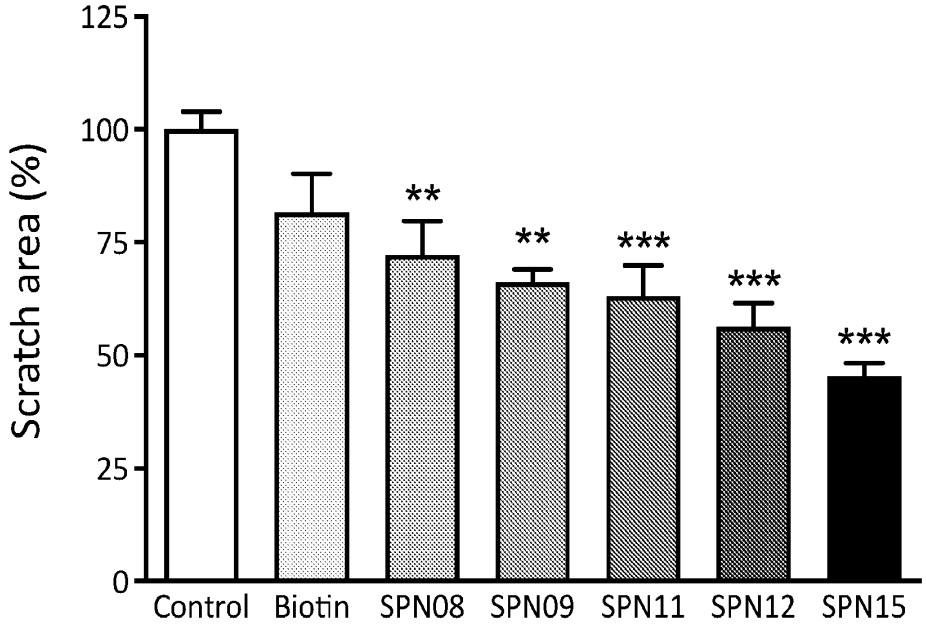

125
100
75
50
25
0
Scratch area (%)
**
**
***
***
***
Control
Biotin
SPN08
SPN09
SPN11
SPN12
SPN15

FIG. 19

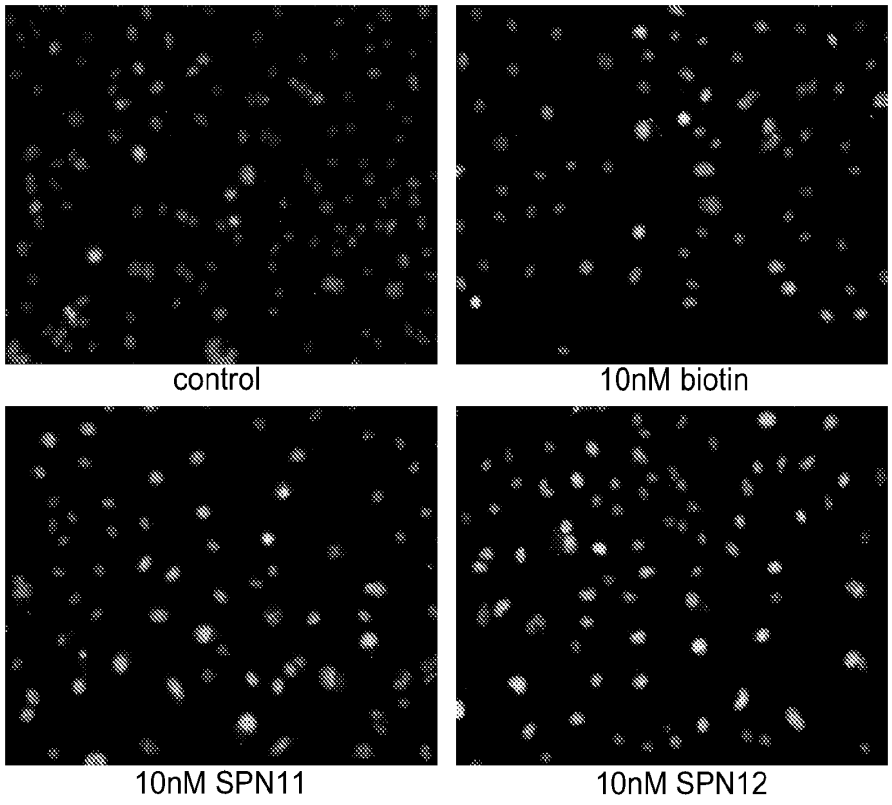


FIG. 20

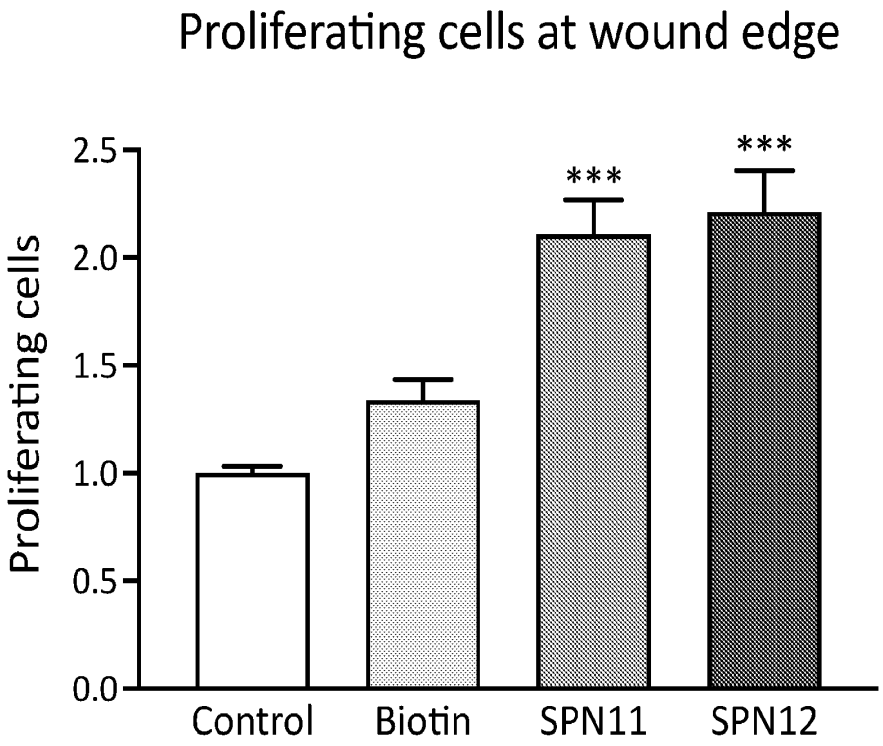

Proliferating cells at wound edge
Proliferating cells
2.5
2.0
1.5
1.0
0.5
0.0
***
***
Control
Biotin
SPN11
SPN12

FIG. 21

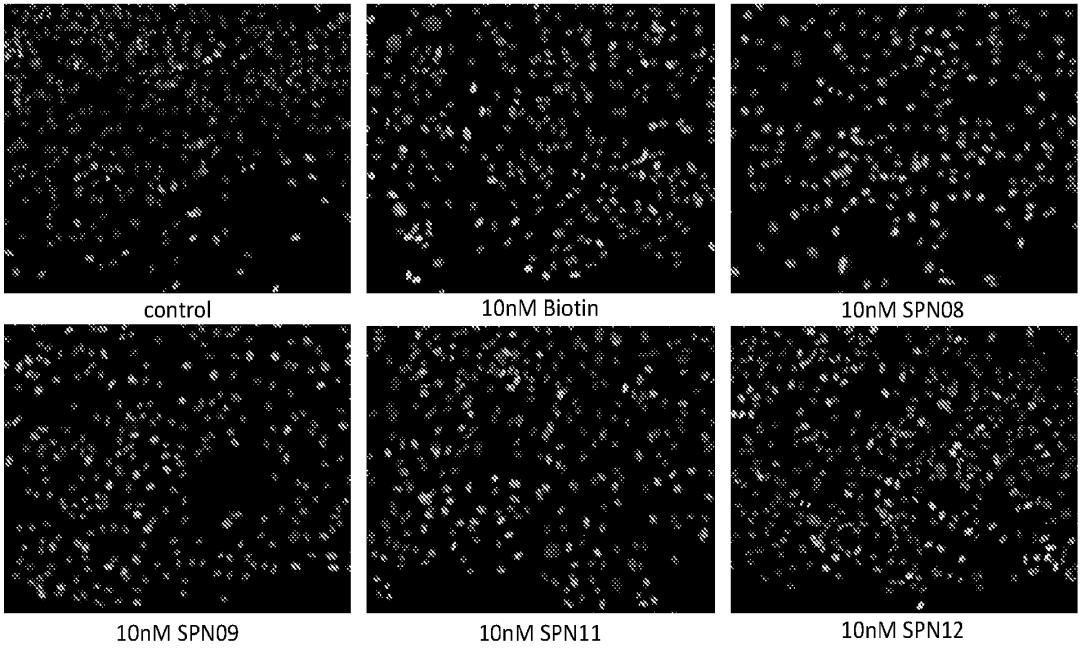

control
10nM Biotin
10nM SPN08
10nM SPN09
10nM SPN11
10nM SPN12

FIG. 22

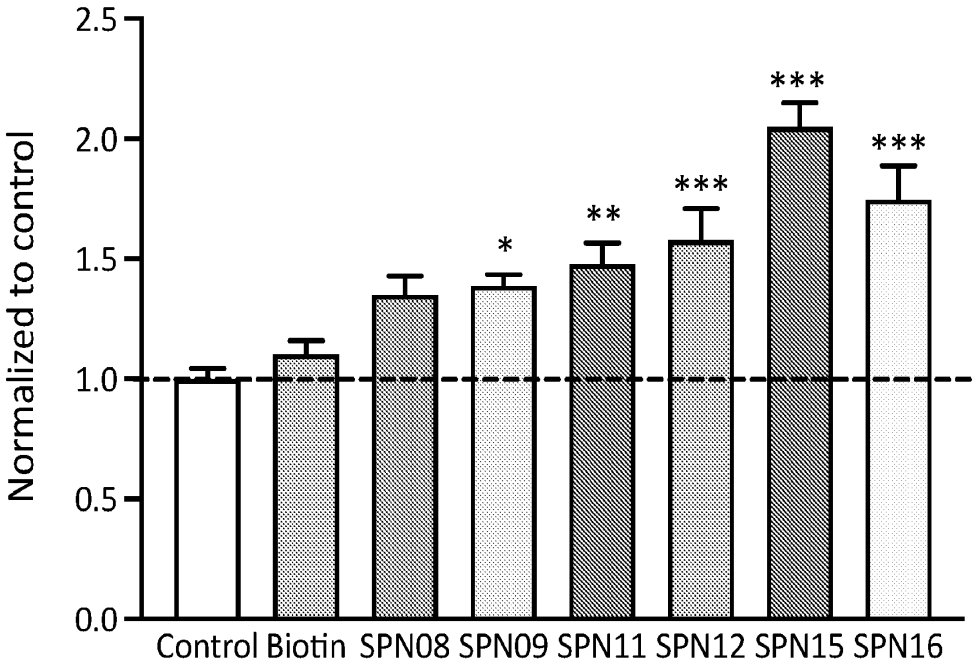

2.5
2.0
1.5
1.0
0.5
0.0
Normalized to control
*
**
***
***
***
Control
Biotin
SPN08
SPN09
SPN11
SPN12
SPN15
SPN16

FIG. 23

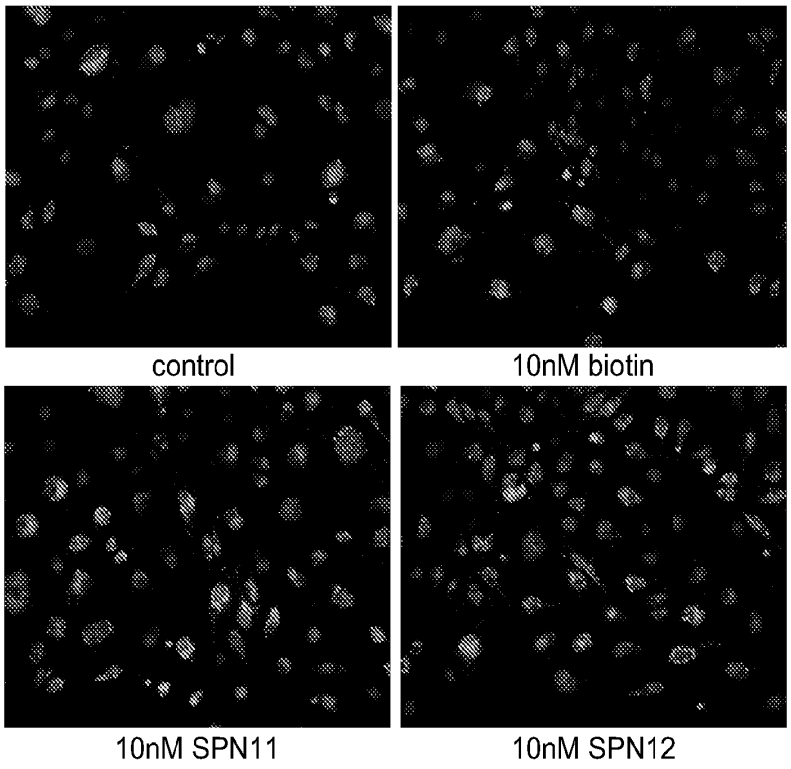


FIG. 24

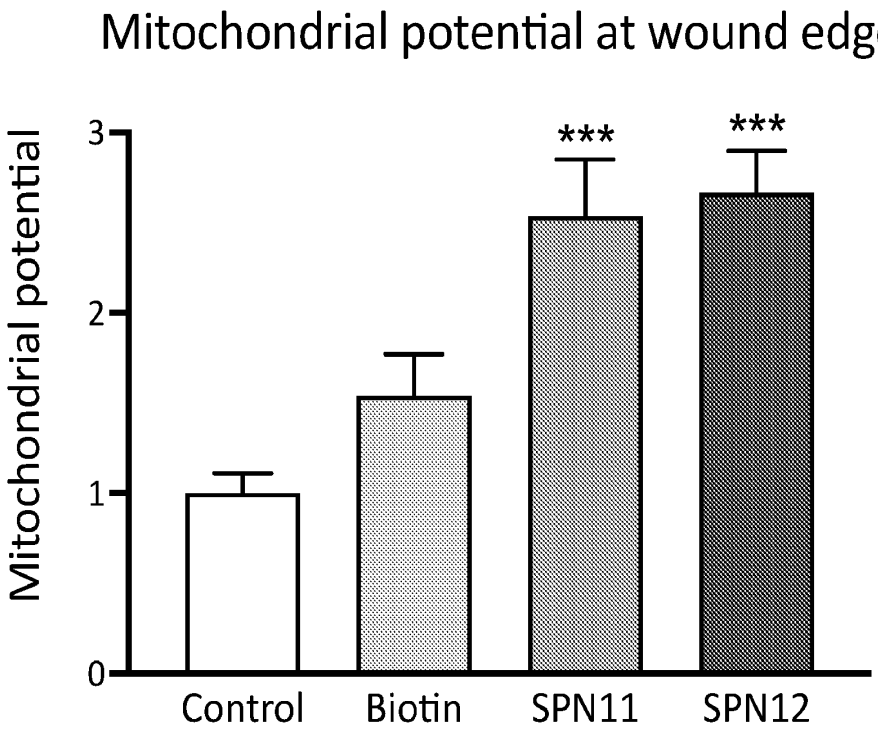

Mitochondrial potential at wound edge
Mitochondrial potential
3
2
1
0
***
***
Control
Biotin
SPN11
SPN12

FIG. 25

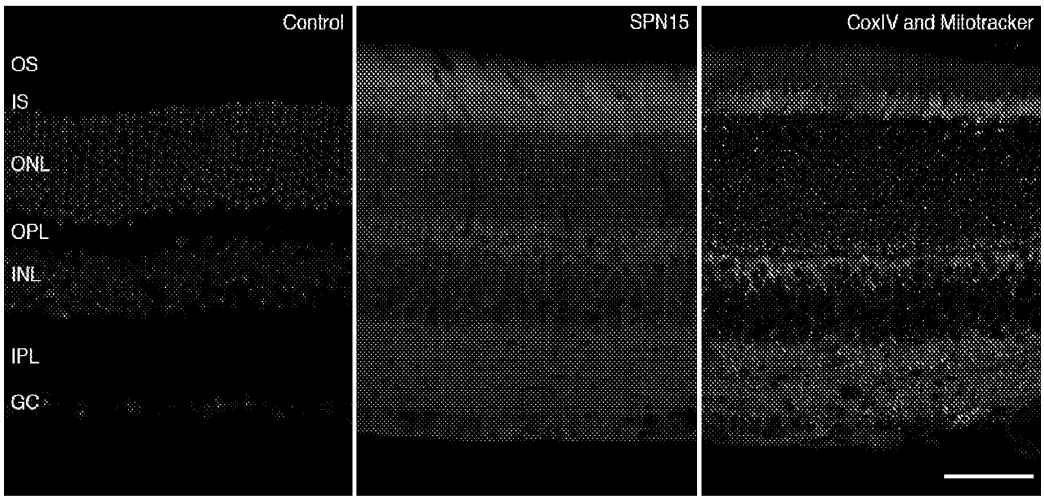


FIG. 26

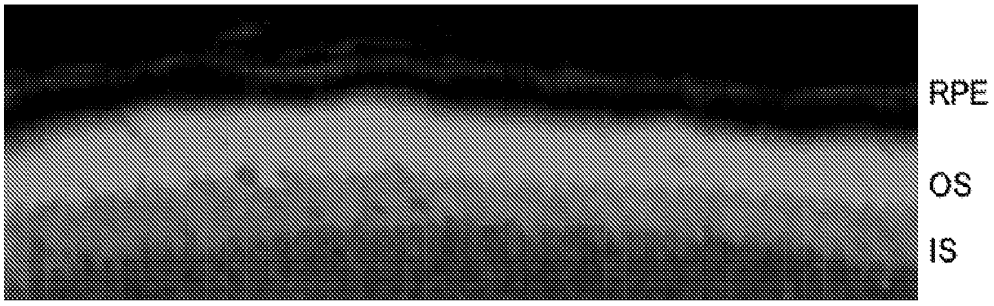


FIG. 27