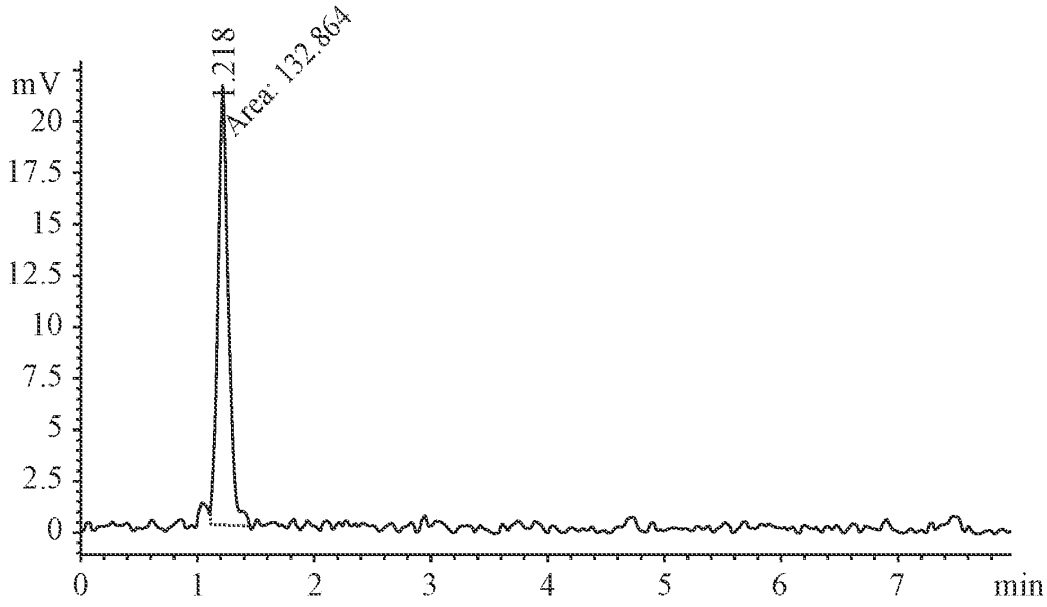

mV
20
17.5
15
12.5
10
7.5
5
2.5
0
1.218
Area: 132.864
0
1
2
3
4
5
6
7
min

Fig. 1

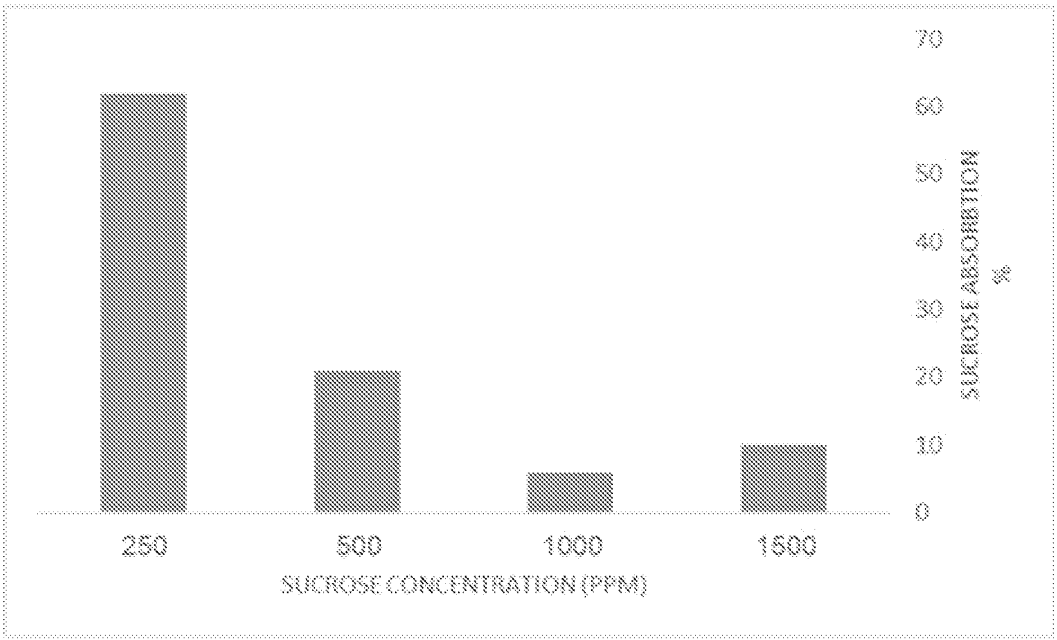

70
60
50
40
30
20
10
0
SUCROSE ABSORBTION %
250
500
1000
1500
SUCROSE CONCENTRATION (PPM)

Fig. 2

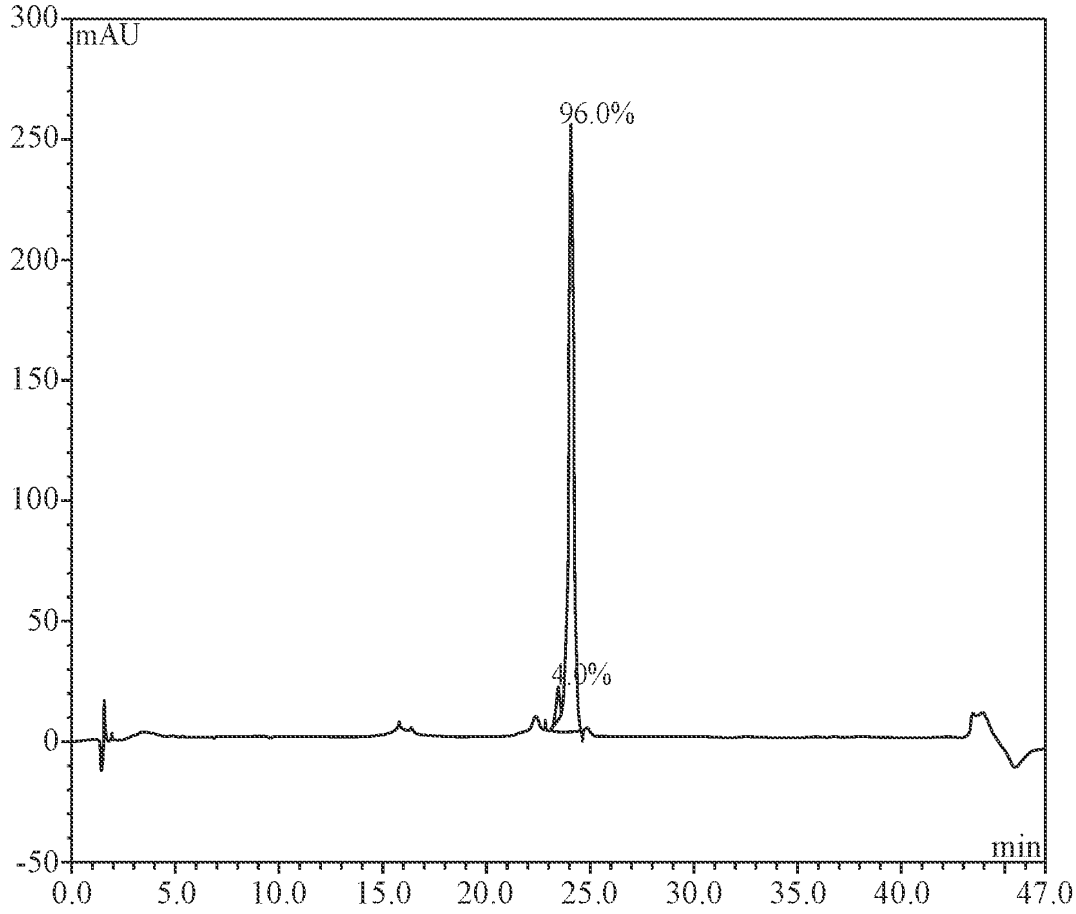

300
mAU
250
200
150
100
50
0
-50
96.0%
min
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
47.0

Fig. 3

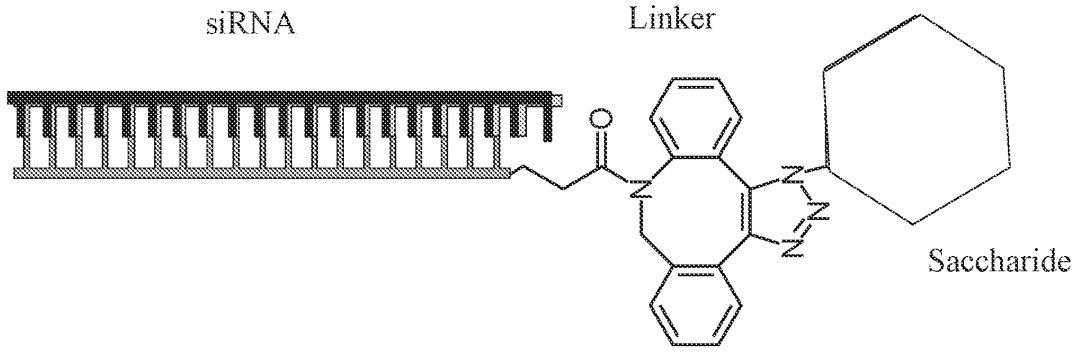

siRNA
Linker
Saccharide

Fig. 4A

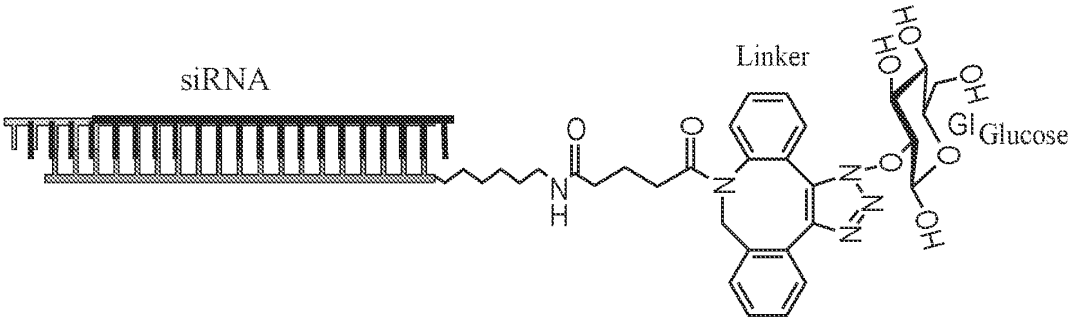

siRNA
Linker
Glucose

FIG. 4B

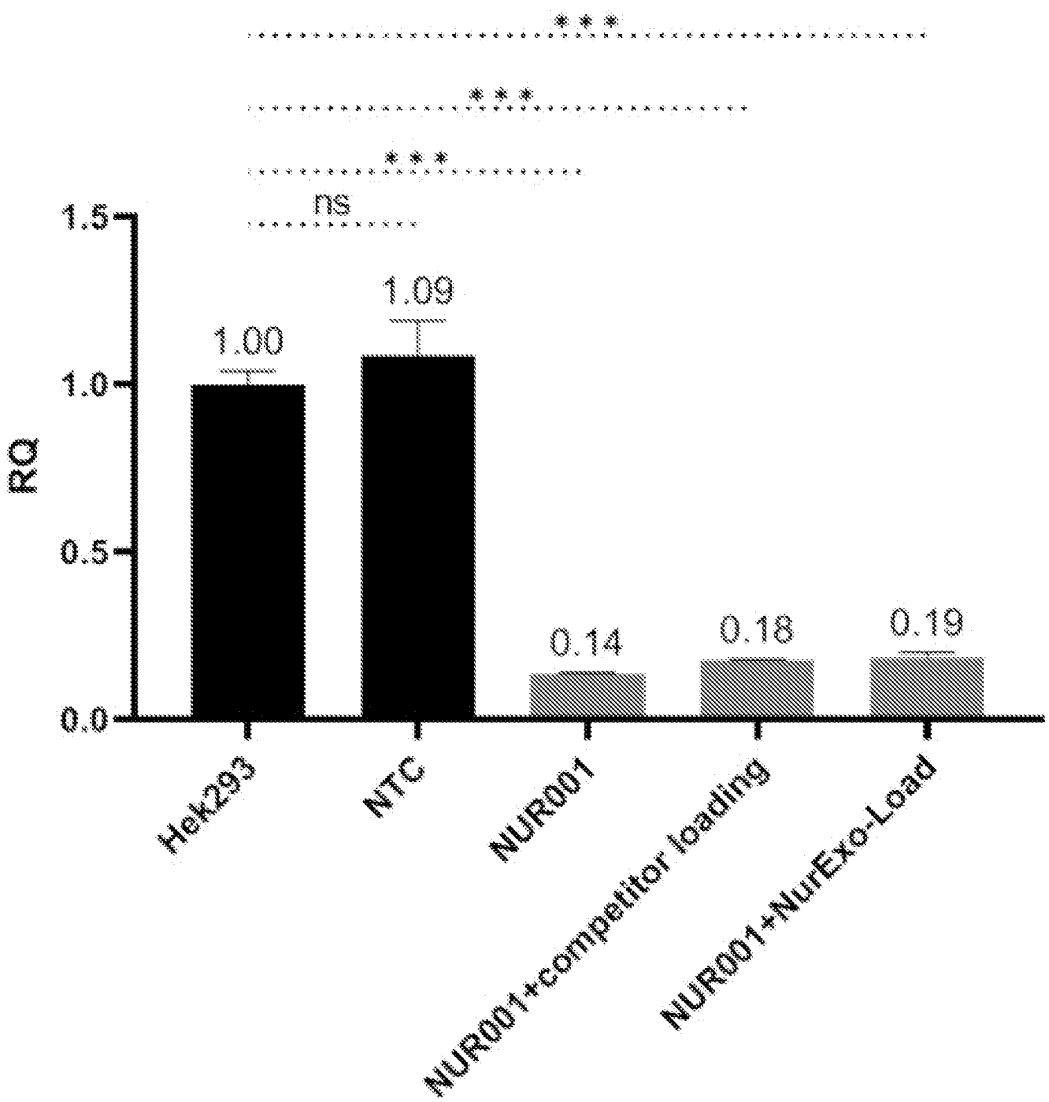

***
***
***
ns
RQ
1.5
1.0
0.5
0.0
1.00
1.09
0.14
0.18
0.19
HeK293
NTC
NUR001
NUR001+competitor loading
NUR001+NurExo-Load

FIG. 5

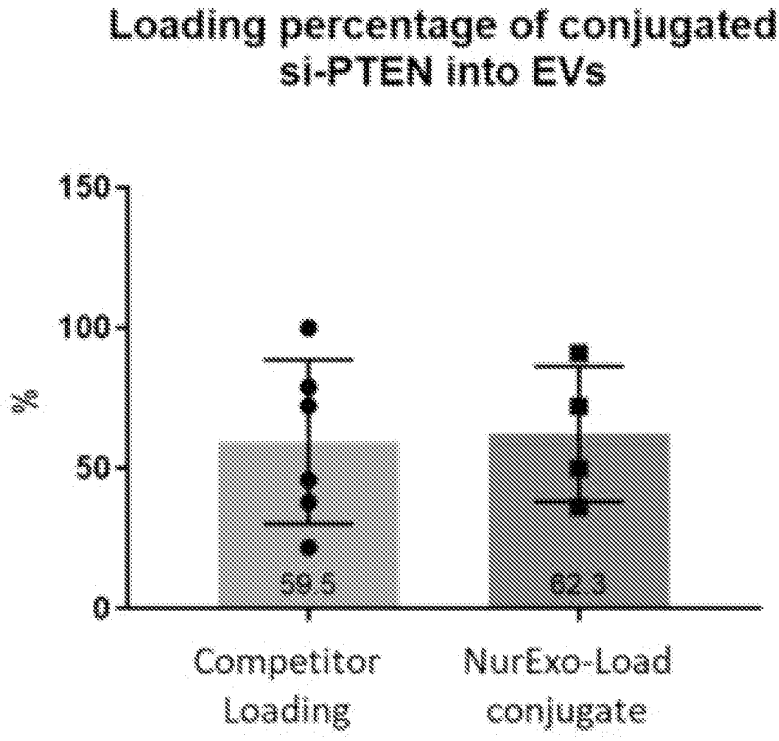


FIG. 6

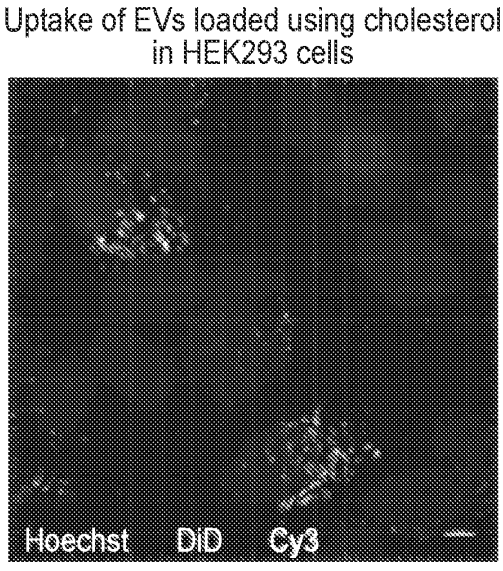


FIG. 7A

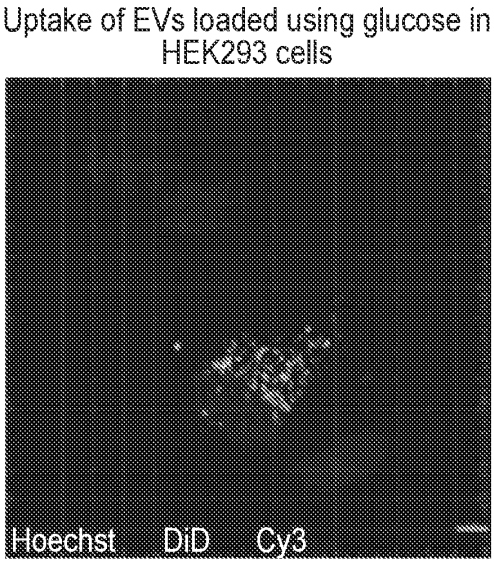


FIG. 7B

Fig. 8

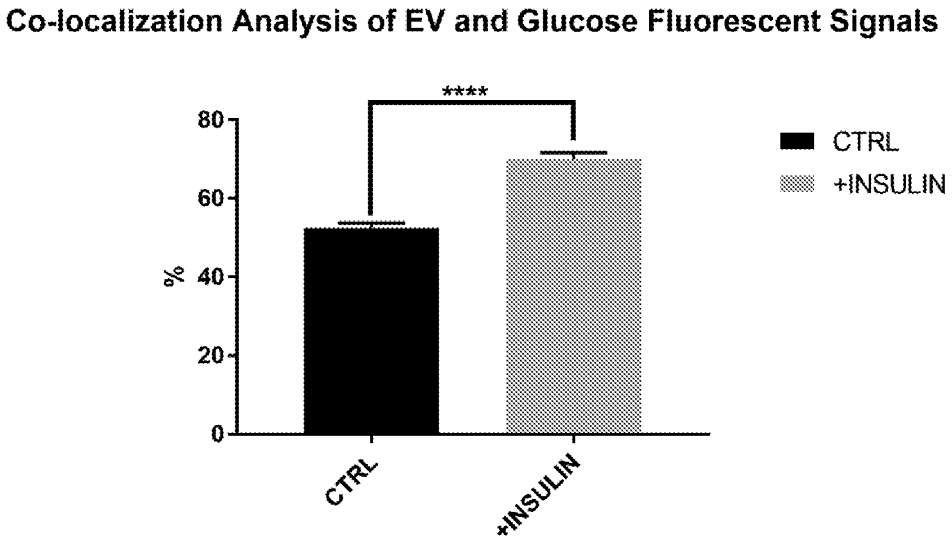

Co-localization Analysis of EV and Glucose Fluorescent Signals
****
80
60
40
20
0
%
CTRL
+INSULIN
CTRL
+INSULIN

Fig. 9

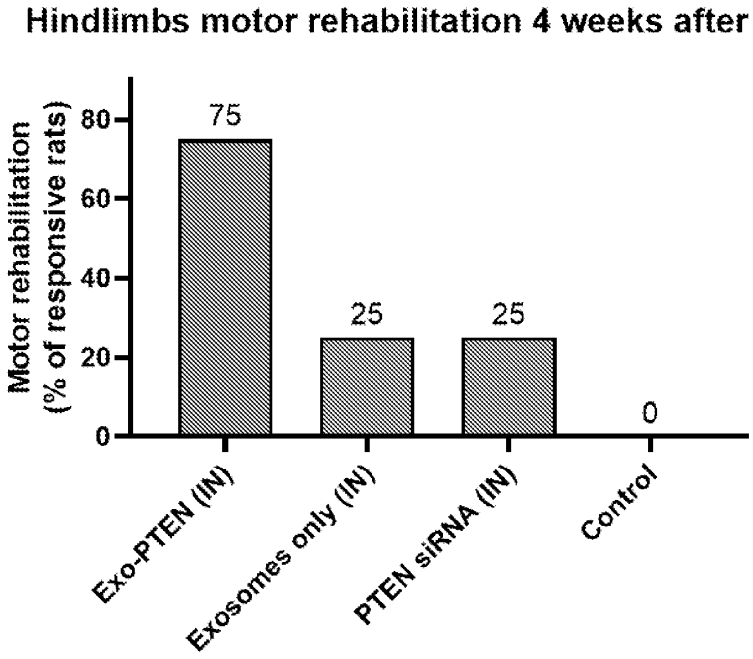

Hindlimbs motor rehabilitation 4 weeks after injury
Motor rehabilitation (% of responsive rats)
80
60
40
20
0
75
25
25
0
Exo-PTEN (IN)
Exosomes only (IN)
PTEN siRNA (IN)
Control

Fig. 10

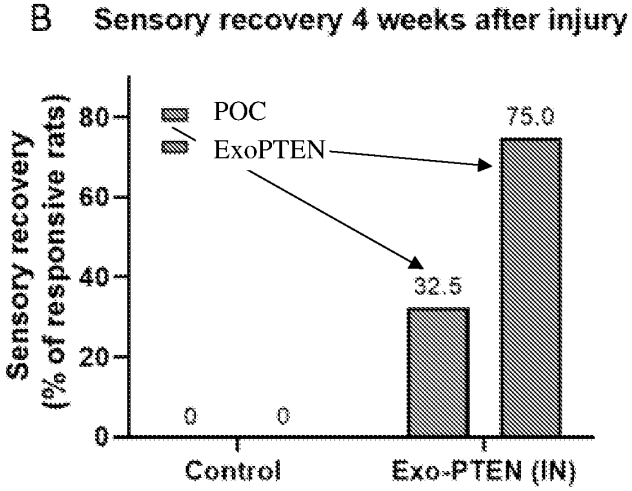

B Sensory recovery 4 weeks after injury
Sensory recovery (% of responsive rats)
POC
ExoPTEN
75.0
32.5
0
0
80
60
40
20
0
Control
Exo-PTEN (IN)

Fig. 11

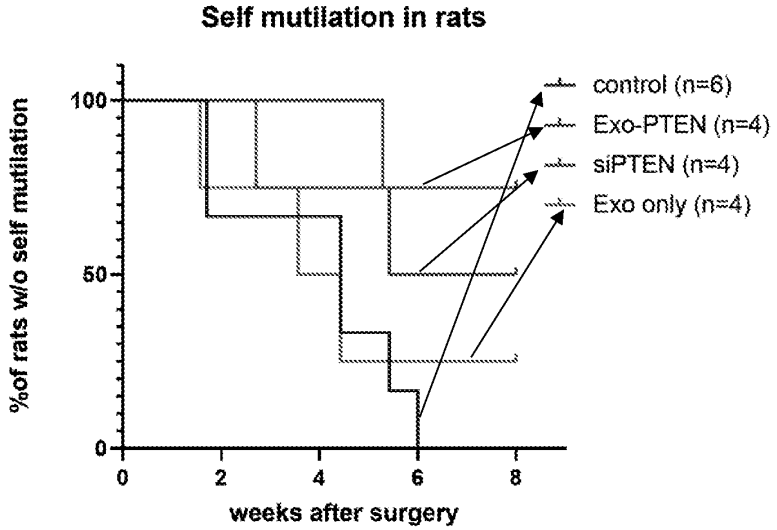
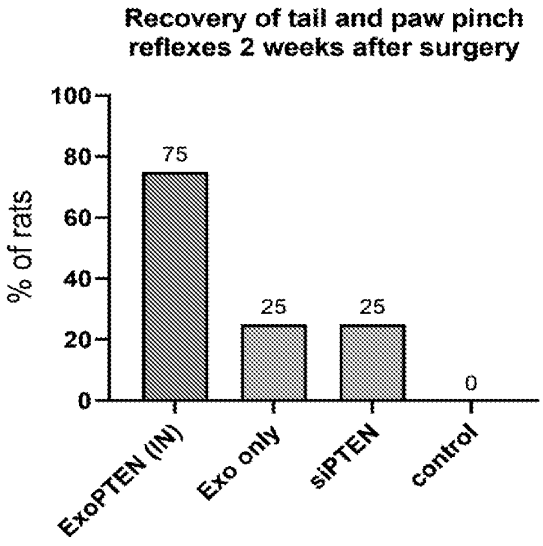

Self mutilation in rats
%of rats w/o self mutilation
100
50
0
0
2
4
6
8
weeks after surgery
control (n=6)
Exo-PTEN (n=4)
siPTEN (n=4)
Exo only (n=4)

Fig. 12


Recovery of tail and paw pinch reflexes 2 weeks after surgery
% of rats
100
80
60
40
20
0
75
25
25
0
ExoPTEN (IN)
Exo only
siPTEN
control