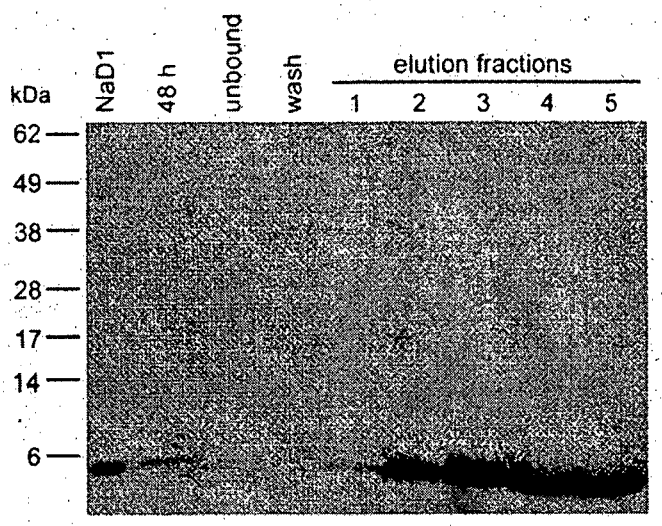
FIGURE 1A



5

FIGURE 1B

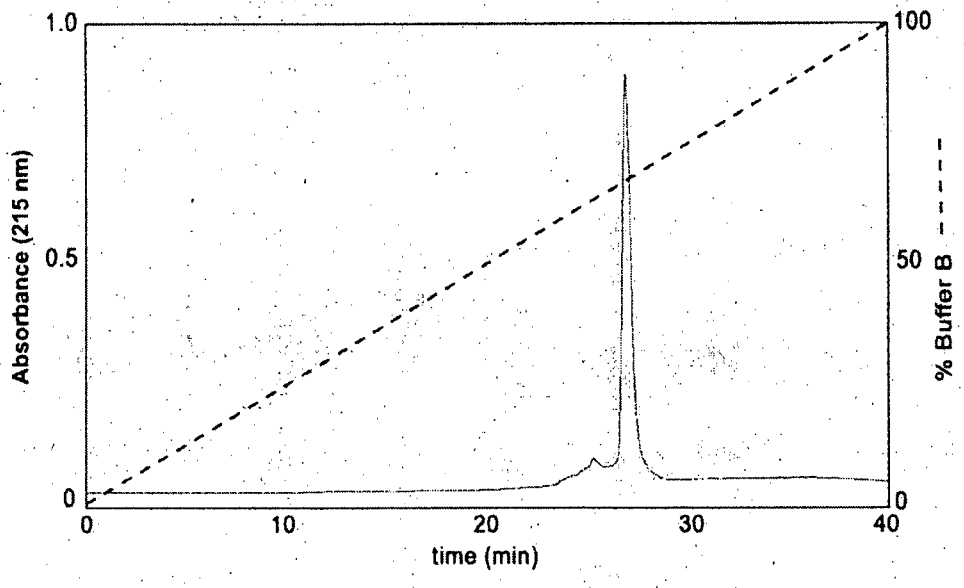


FIGURE 1C

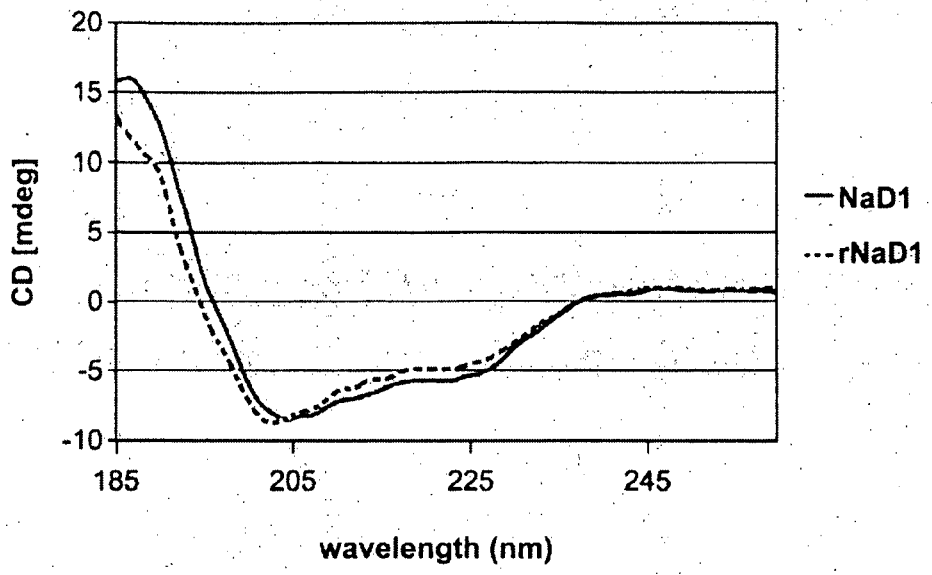


FIGURE 1D

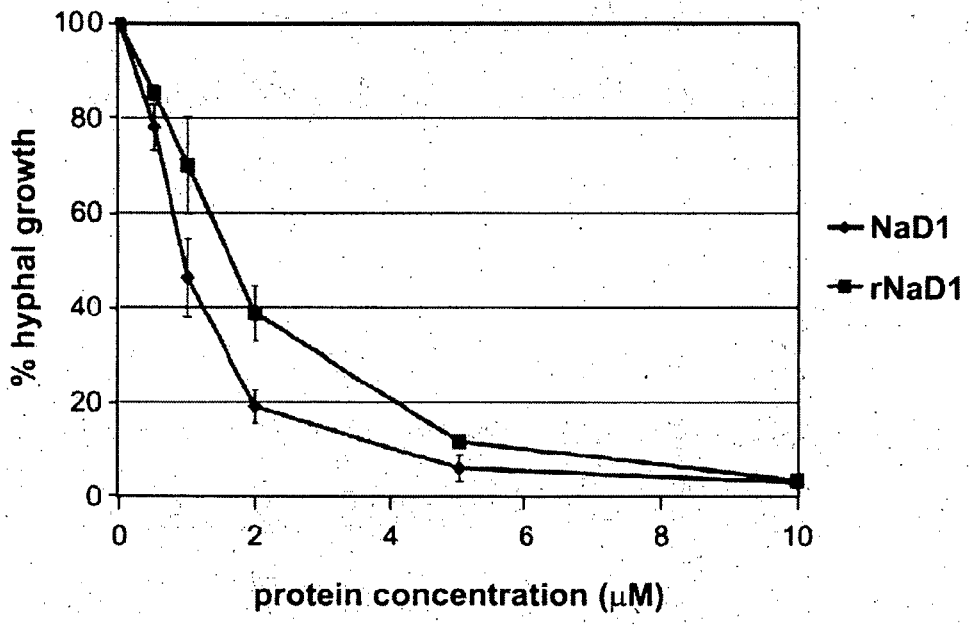


FIGURE 2A

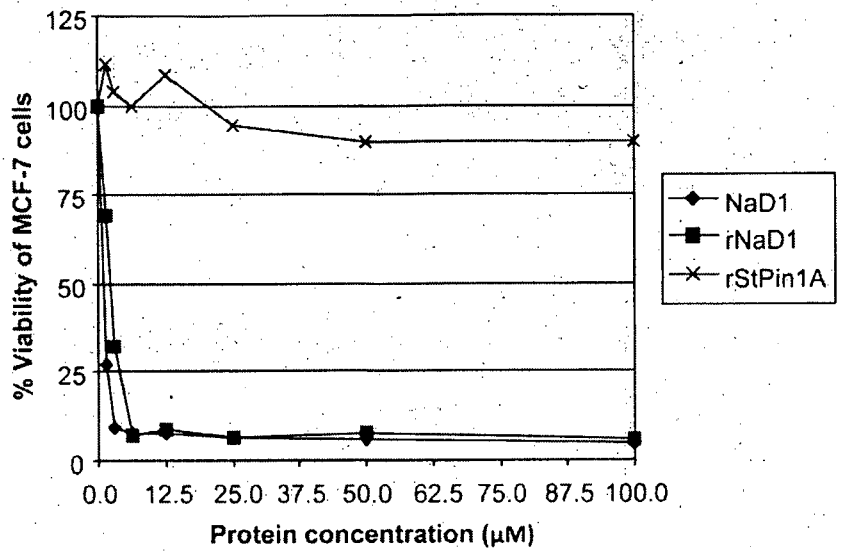
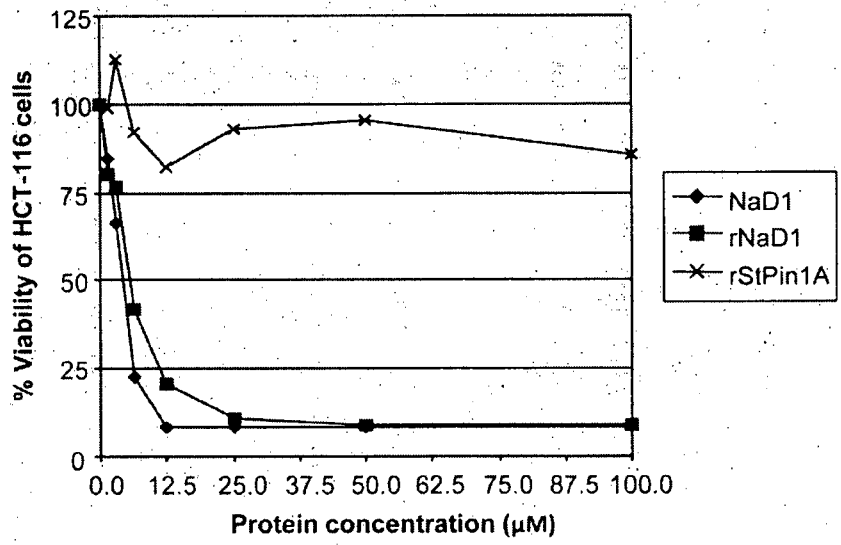


FIGURE 2B



5

FIGURE 2C

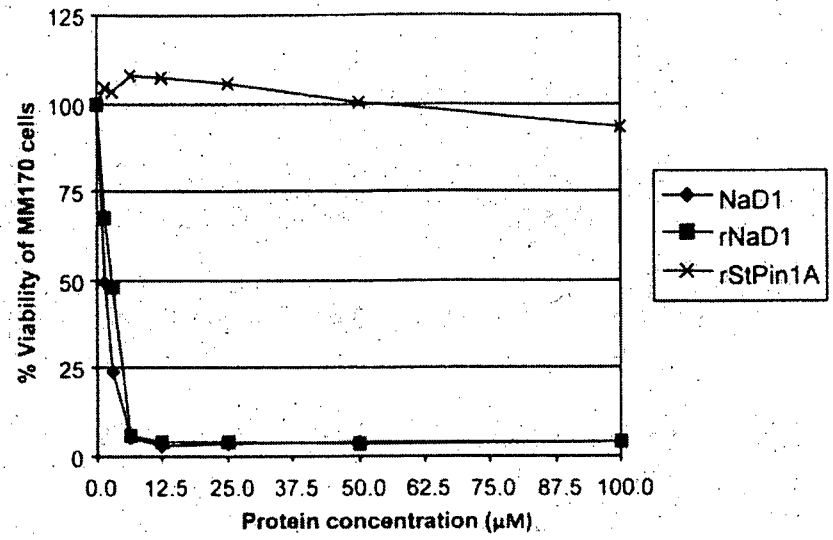
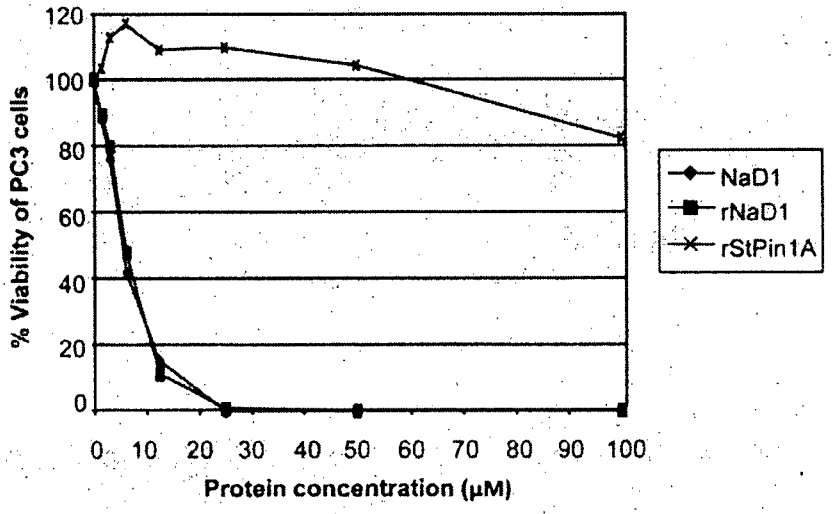


FIGURE 2D



5

FIGURE 2E

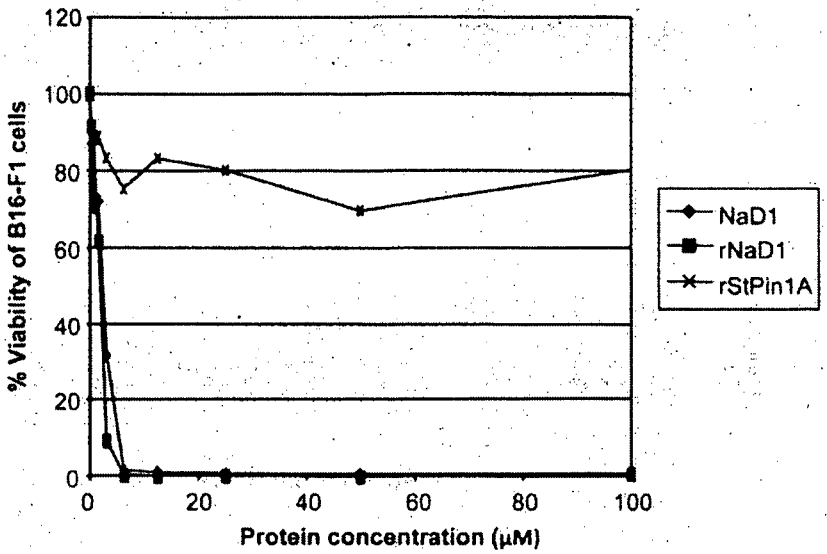
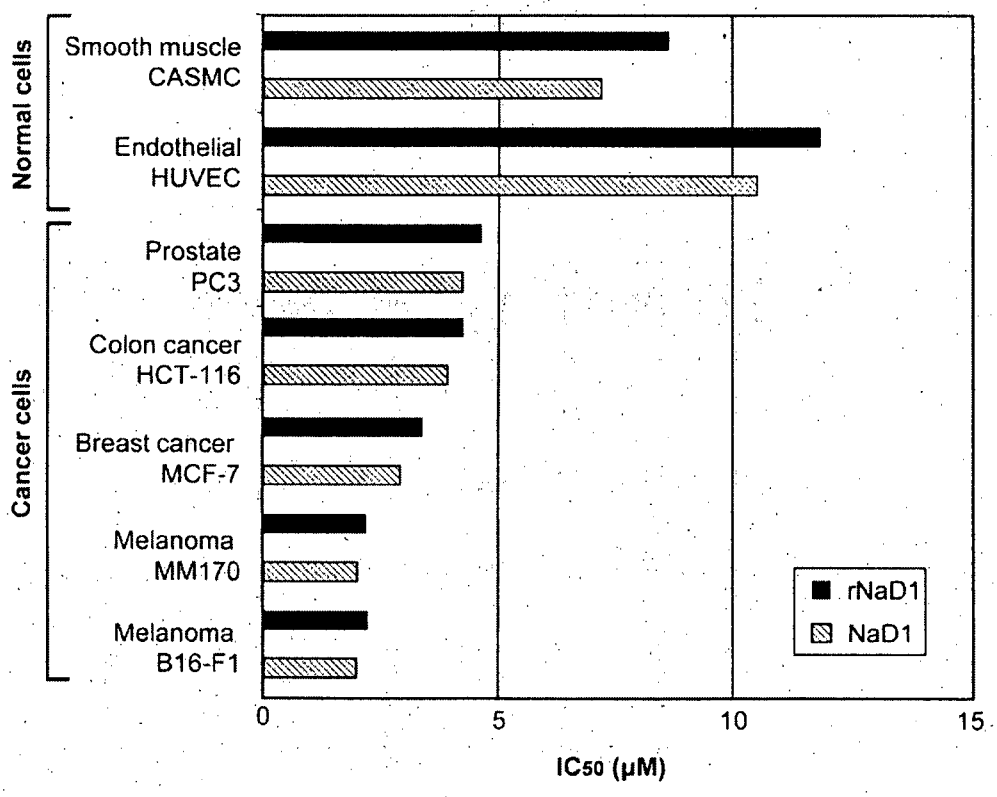


FIGURE 2F



5

FIGURE 2G

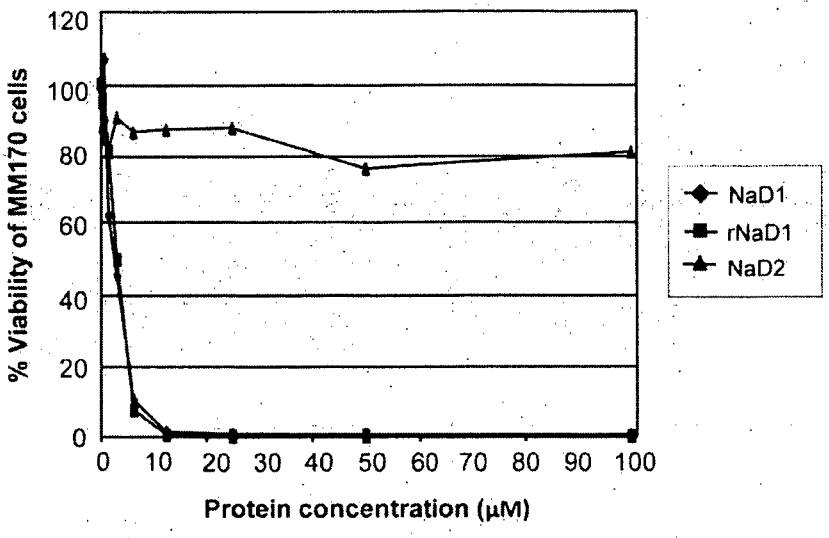
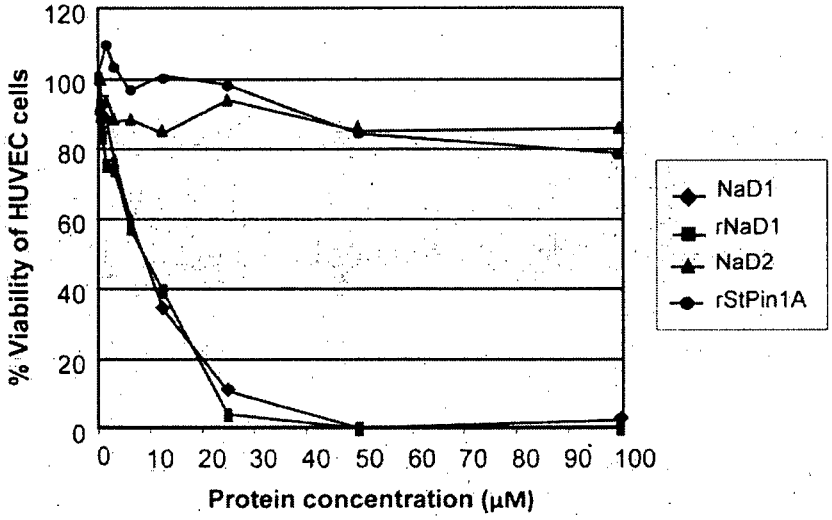


FIGURE 2H



5

FIGURE 2I

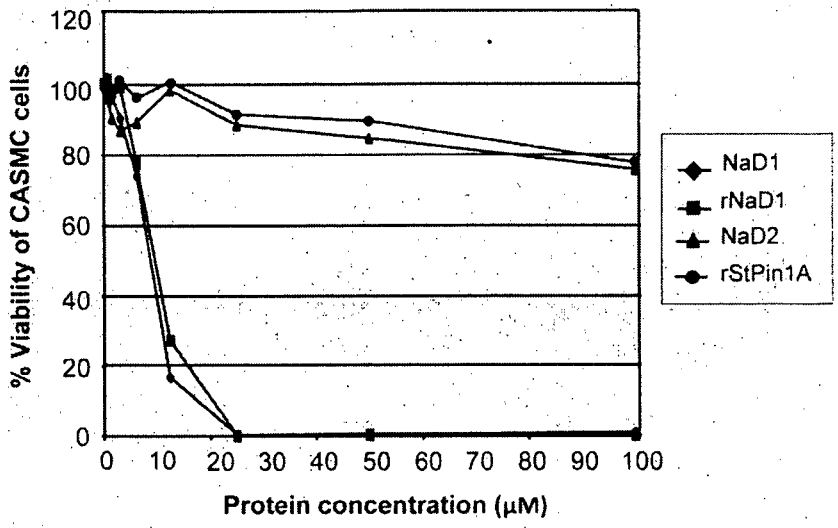
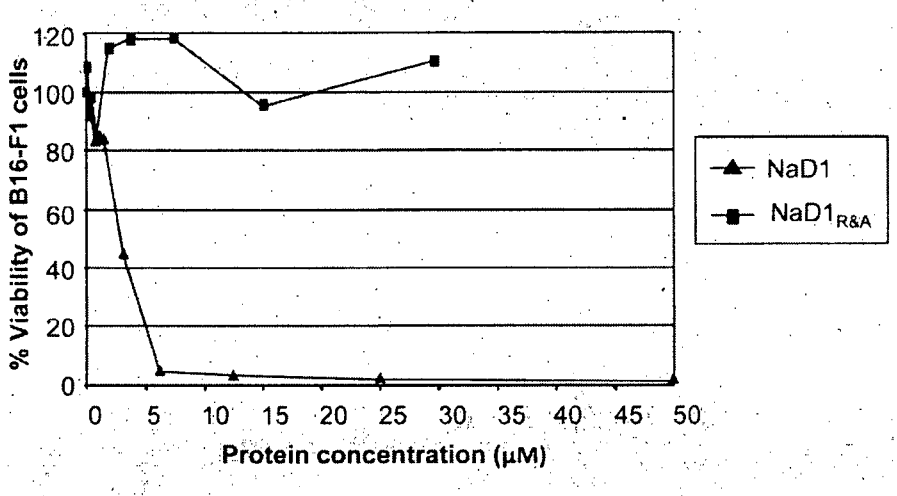


FIGURE 2J



5

FIGURE 3A

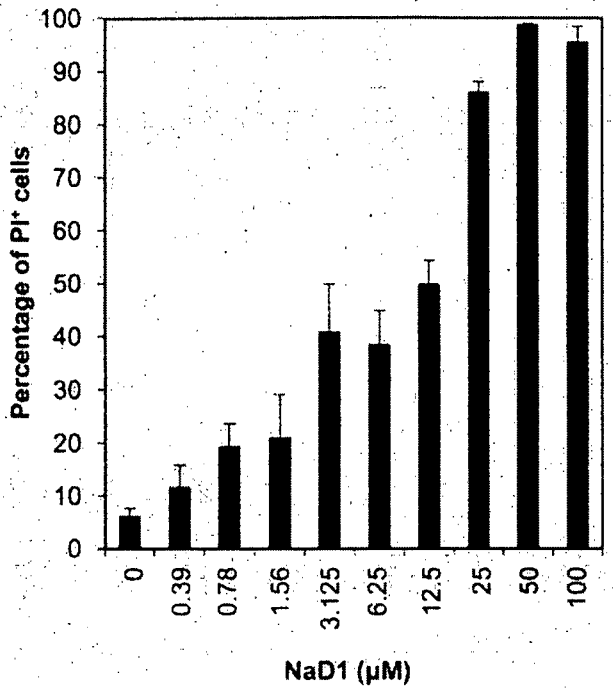
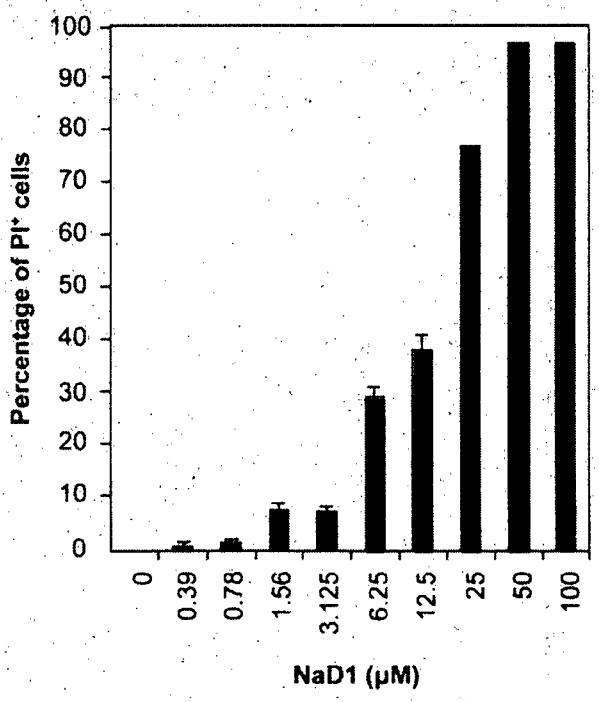


FIGURE 3B



5

FIGURE 3C

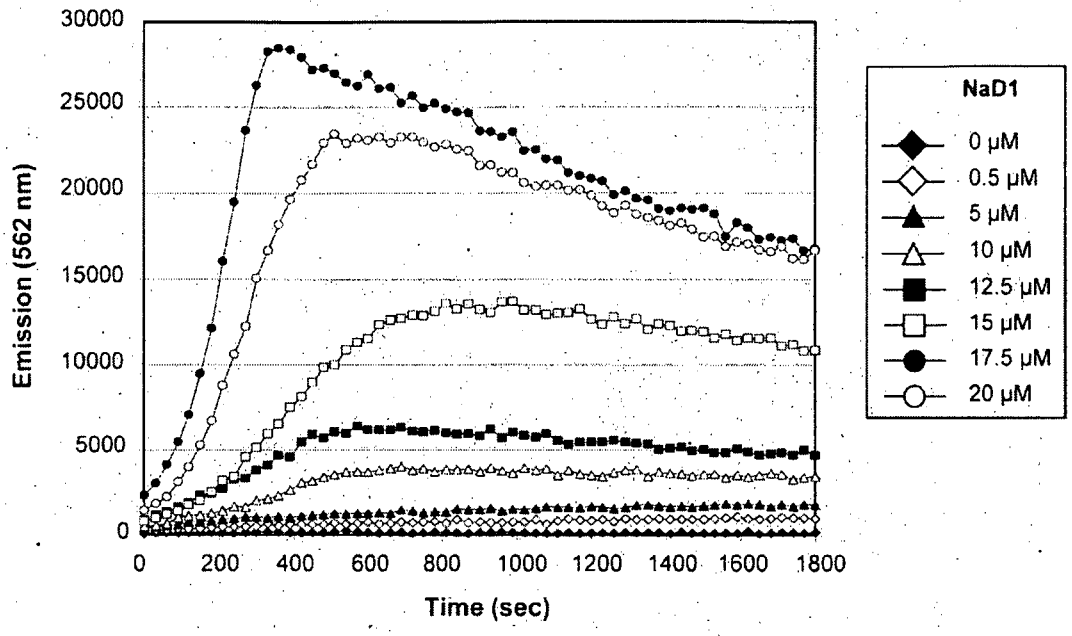
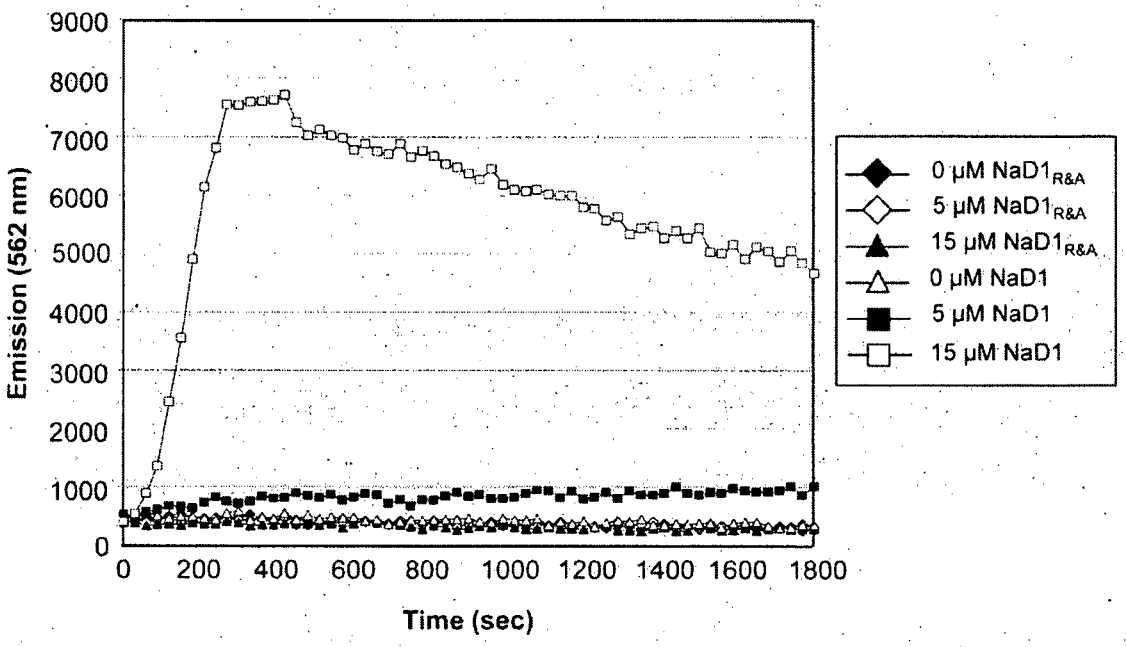


FIGURE 3D



5

FIGURE 3E

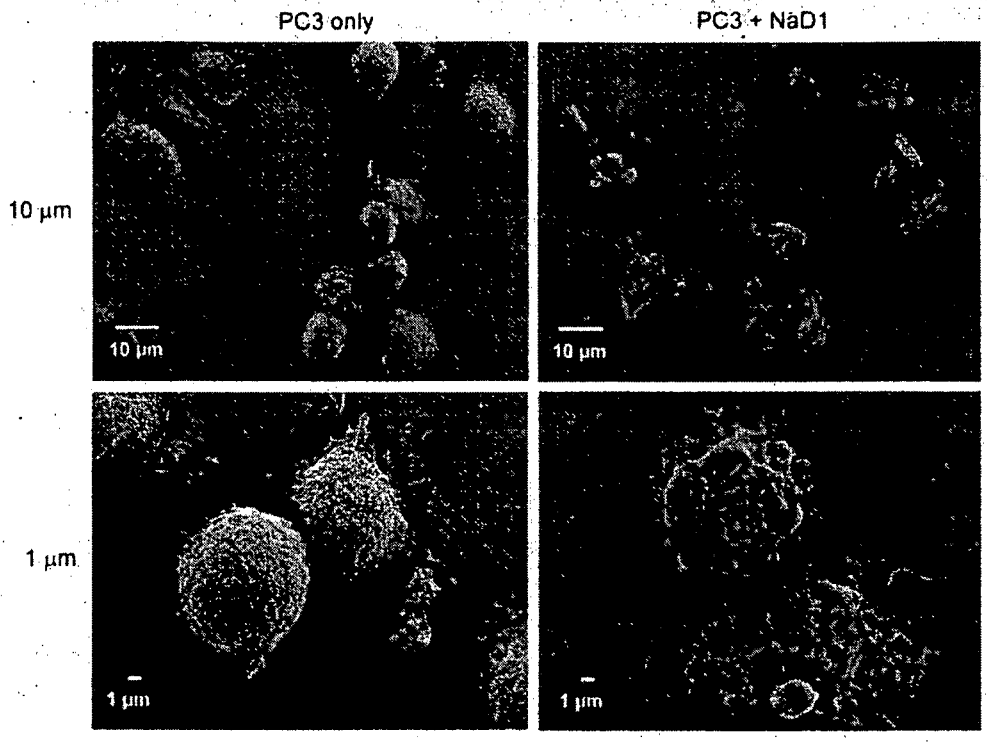


FIGURE 4

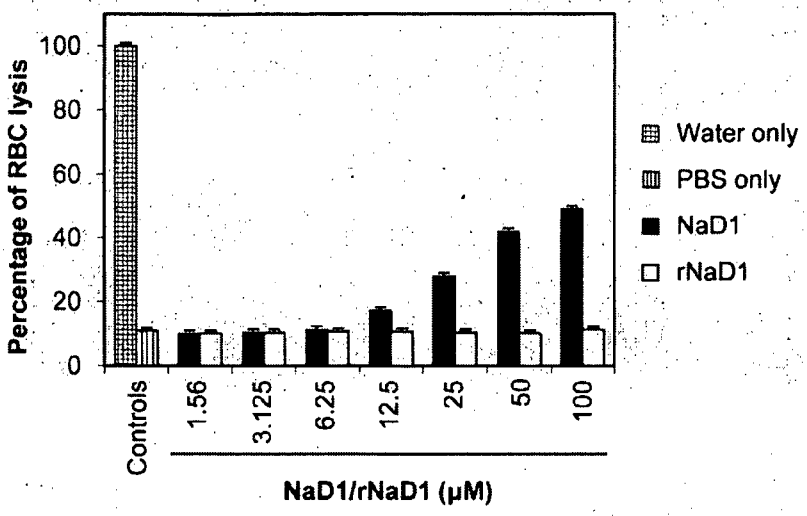

Percentage of RBC lysis
100
80
60
40
20
0
Controls
1.56
3.125
6.25
12.5
25
50
100
NaD1/rNaD1 (μM)
Water only
PBS only
NaD1
rNaD1

FIGURE 5

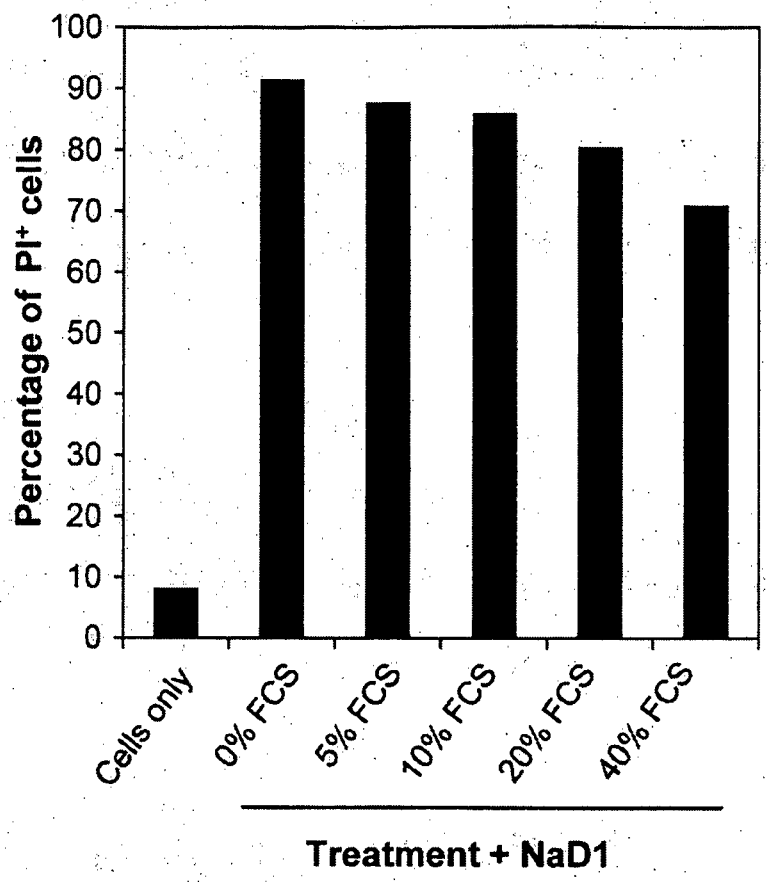

Percentage of PI+ cells
100
90
80
70
60
50
40
30
20
10
0
Cells only
0% FCS
5% FCS
10% FCS
20% FCS
40% FCS
Treatment + NaD1

FIGURE 6

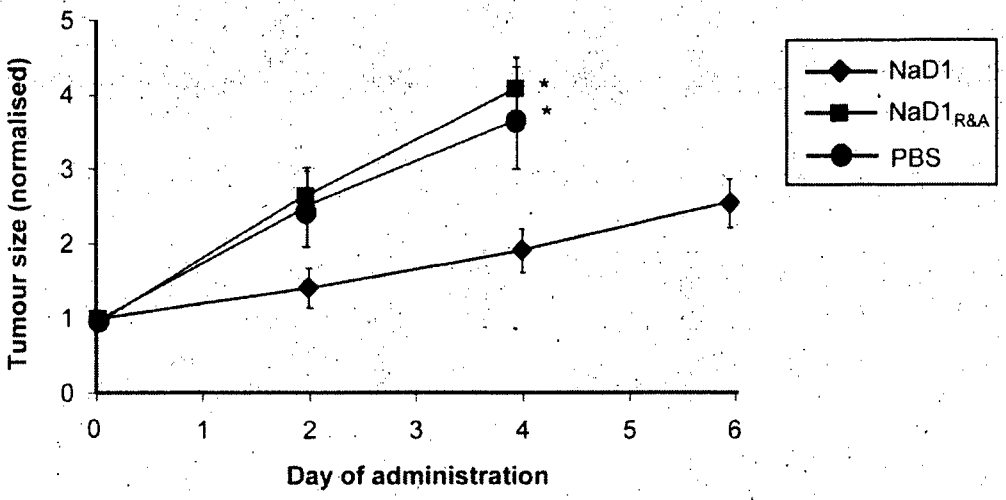

Tumour size (normalised)
0
1
2
3
4
5
0
1
2
3
4
5
6
Day of administration
*
*
NaD1
NaD1R&A
PBS

FIGURE 7A

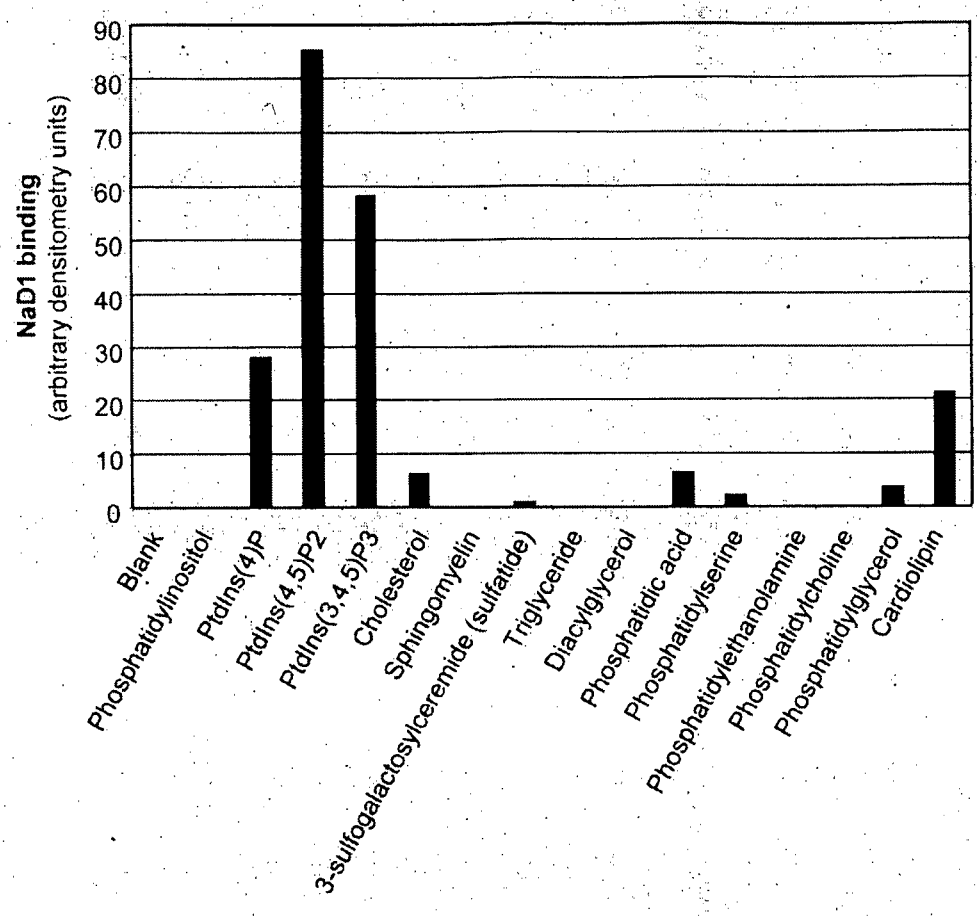

NaD1 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Phosphatidylinositol
PtdIns(4)P
PtdIns(4,5)P2
PtdIns(3,4,5)P3
Cholesterol
Sphingomyelin
3-sulfogalactosylceremide (sulfatide)
Triglyceride
Diacylglycerol
Phosphatidic acid
Phosphatidylserine
Phosphatidylethanolamine
Phosphatidylcholine
Phosphatidylglycerol
Cardiolipin

FIGURE 7B

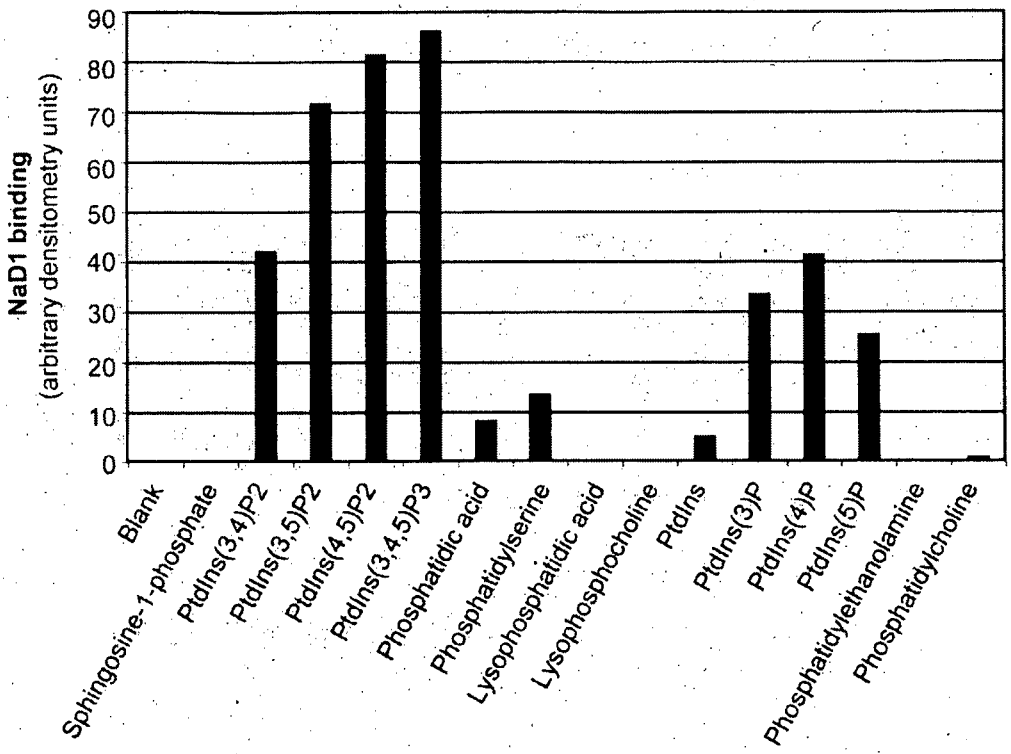

NaD1 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Sphingosine-1-phosphate
PtdIns(3,4)P2
PtdIns(3,5)P2
PtdIns(4,5)P2
PtdIns(3,4,5)P3
Phosphatidic acid
Phosphatidylserine
Lysophosphatidic acid
Lysophosphocholine
PtdIns
PtdIns(3)P
PtdIns(4)P
PtdIns(5)P
Phosphatidylethanolamine
Phosphatidylcholine

FIGURE 7C

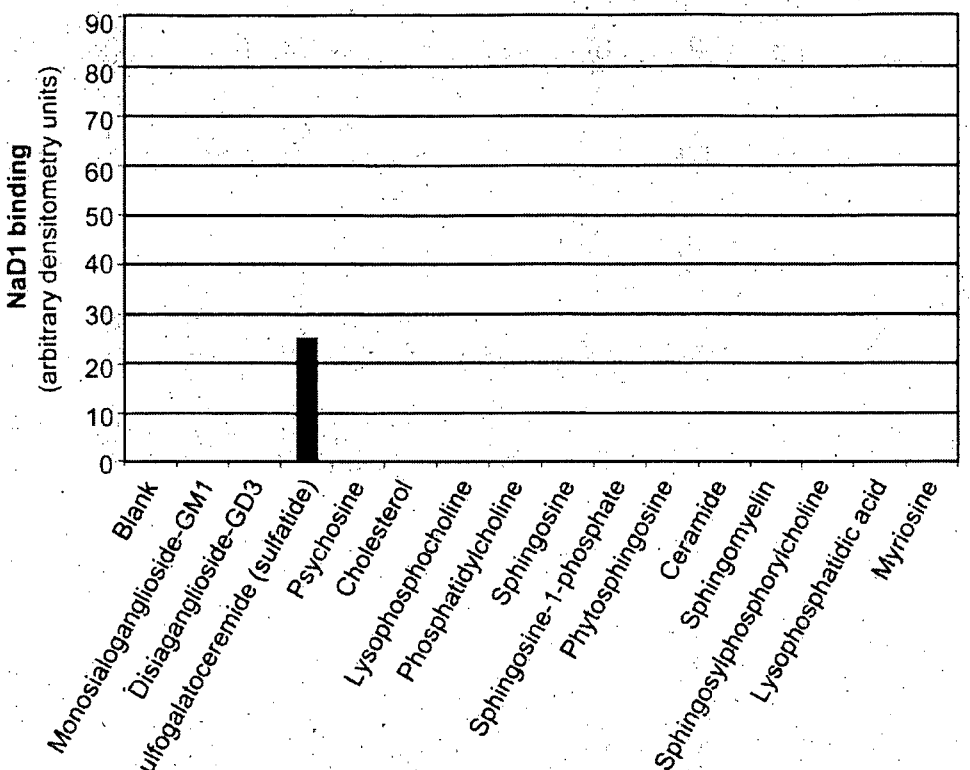

NaD1 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Monosialoganglioside-GM1
Disiaganglioside-GD3
3-sulfogalatoceremide (sulfatide)
Psychosine
Cholesterol
Lysophosphocholine
Phosphatidylcholine
Sphingosine
Sphingosine-1-phosphate
Phytosphingosine
Ceramide
Sphingomyelin
Sphingosylphosphorylcholine
Lysophosphatidic acid
Myriosine

FIGURE 7D

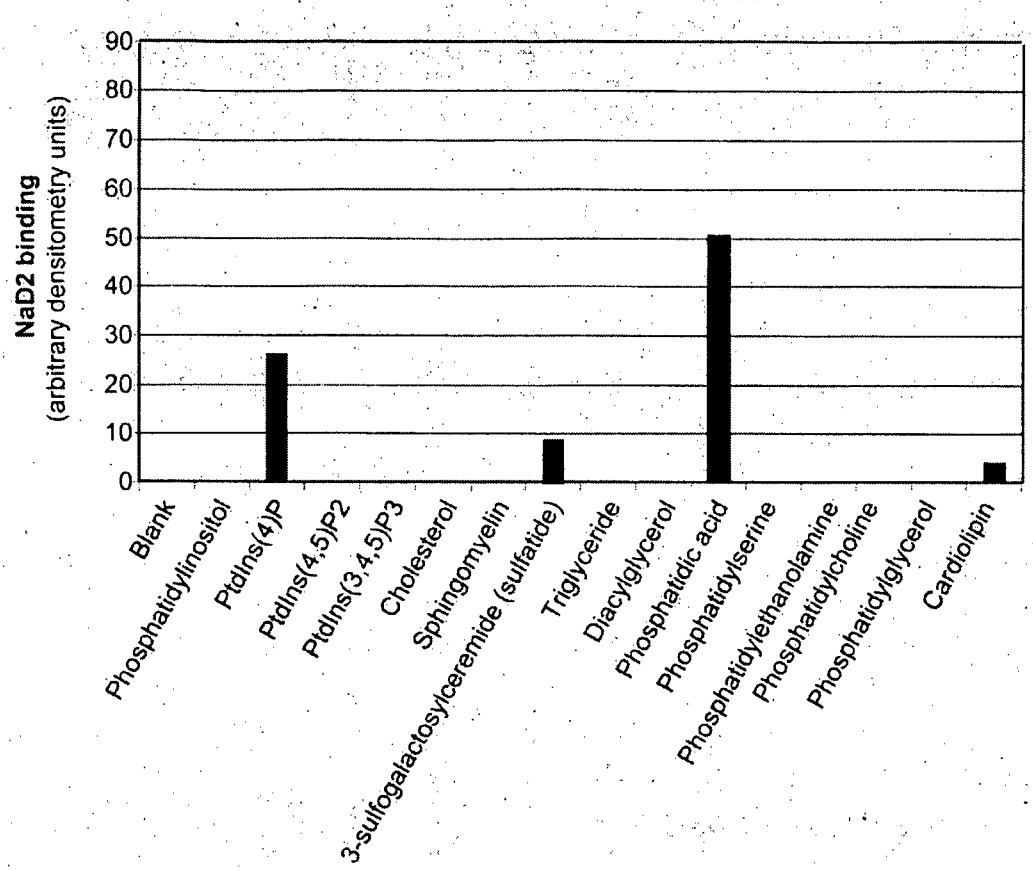

NaD2 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Phosphatidylinositol
PtdIns(4)P
PtdIns(4,5)P2
PtdIns(3,4,5)P3
Cholesterol
Sphingomyelin
3-sulfogalactosylceremide (sulfatide)
Triglyceride
Diacylglycerol
Phosphatidic acid
Phosphatidylserine
Phosphatidylethanolamine
Phosphatidylcholine
Phosphatidylglycerol
Cardiolipin

FIGURE 7E

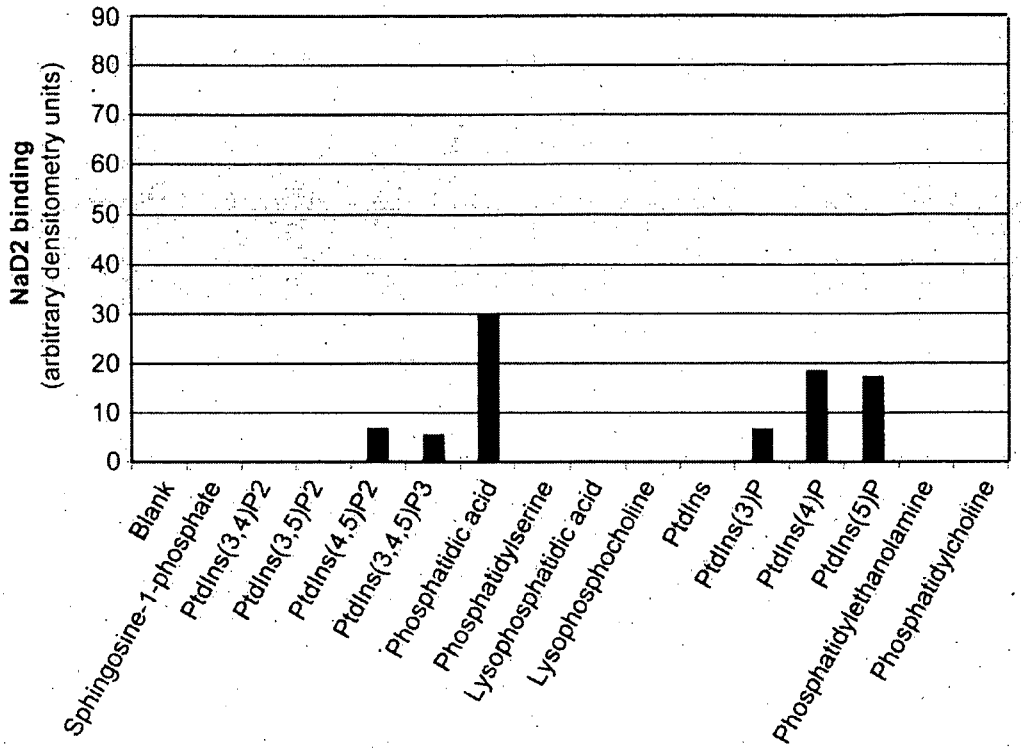

NaD2 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Sphingosine-1-phosphate
PtdIns(3,4)P2
PtdIns(3,5)P2
PtdIns(4,5)P2
PtdIns(3,4,5)P3
Phosphatidic acid
Phosphatidylserine
Lysophosphatidic acid
Lysophosphocholine
PtdIns
PtdIns(3)P
PtdIns(4)P
PtdIns(5)P
Phosphatidylethanolamine
Phosphatidylcholine

FIGURE 7F

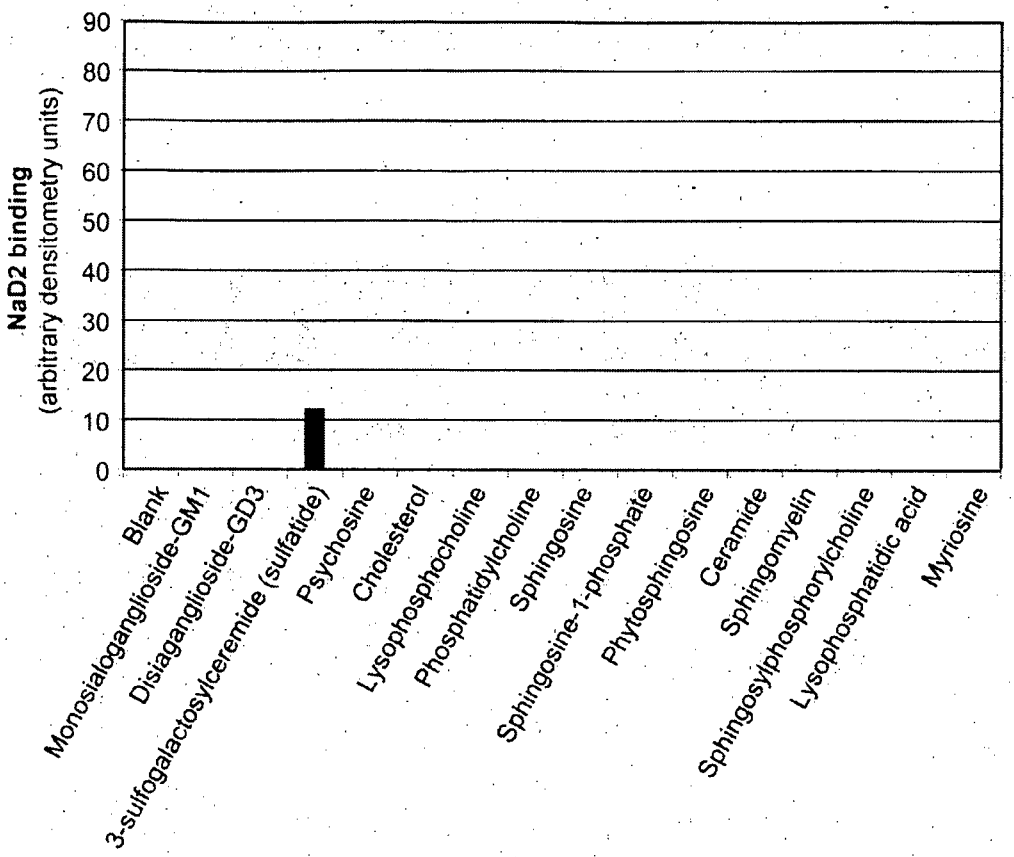
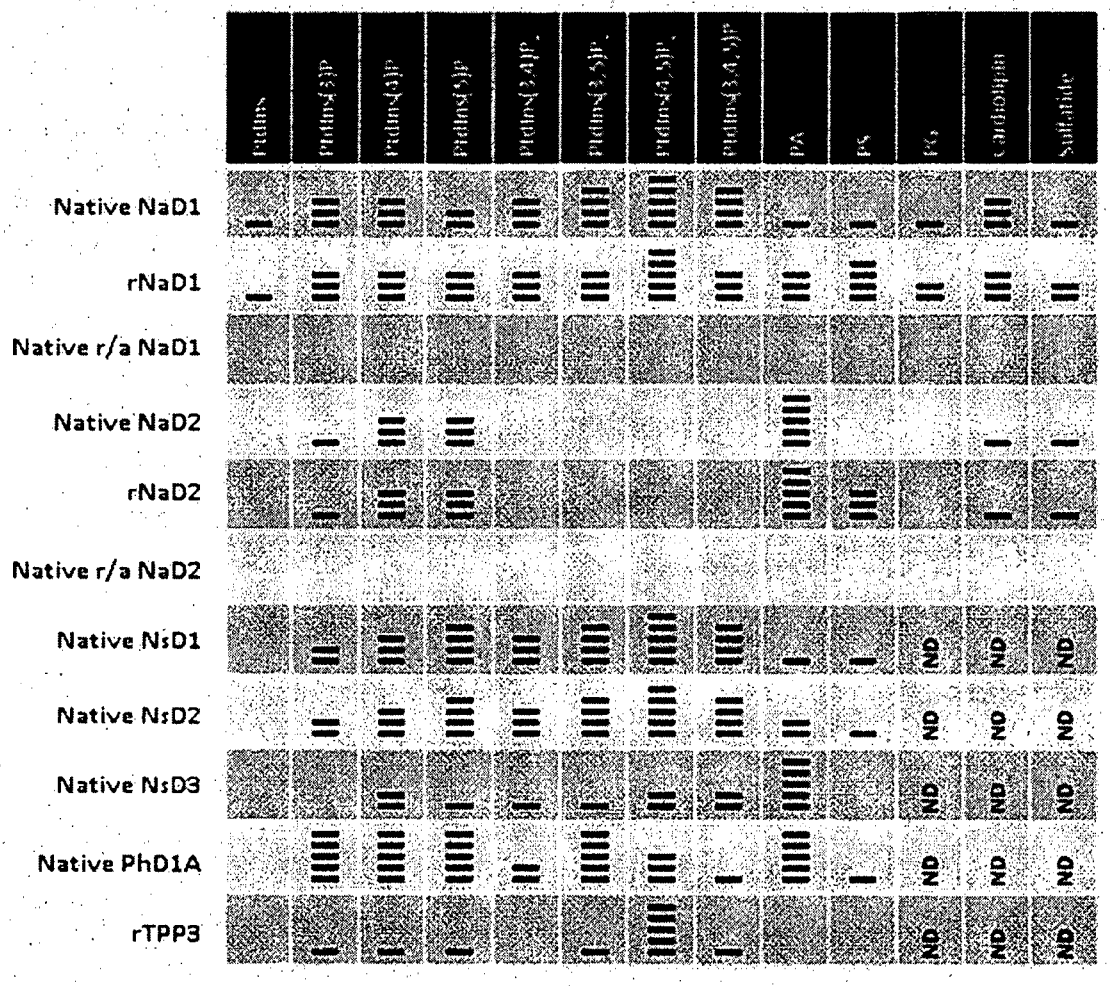

NaD2 binding
(arbitrary densitometry units)
90
80
70
60
50
40
30
20
10
0
Blank
Monosialoganglioside-GM1
Disiaganglioside-GD3
3-sulfogalactosylceremide (sulfatide)
Psychosine
Cholesterol
Lysophosphocholine
Phosphatidylcholine
Sphingosine
Sphingosine-1-phosphate
Phytosphingosine
Ceramide
Sphingomyelin
Sphingosylphosphorylcholine
Lysophosphatidic acid
Myriosine

FIGURE 7G


Native NaD1
rNaD1
Native r/a NaD1
Native NaD2
rNaD2
Native r/a NaD2
Native NsD1
Native NsD2
Native NsD3
Native PhD1A
rTPP3
ND

5

FIGURE 8

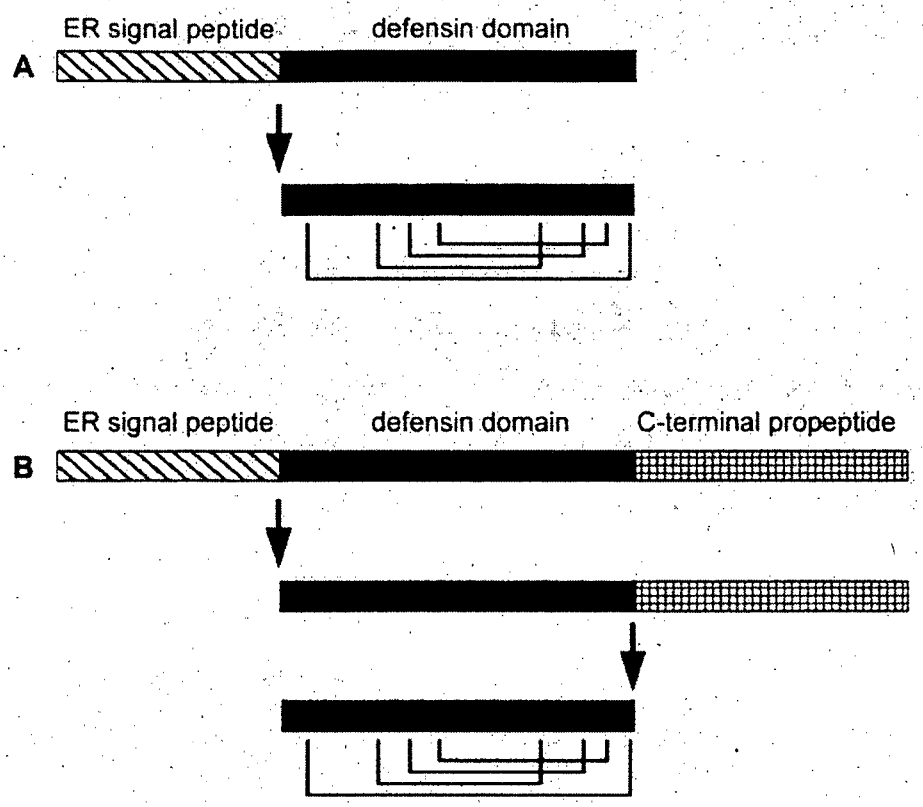

ER signal peptide
defensin domain
A
ER signal peptide
defensin domain
C-terminal propeptide
B

FIGURE 9A

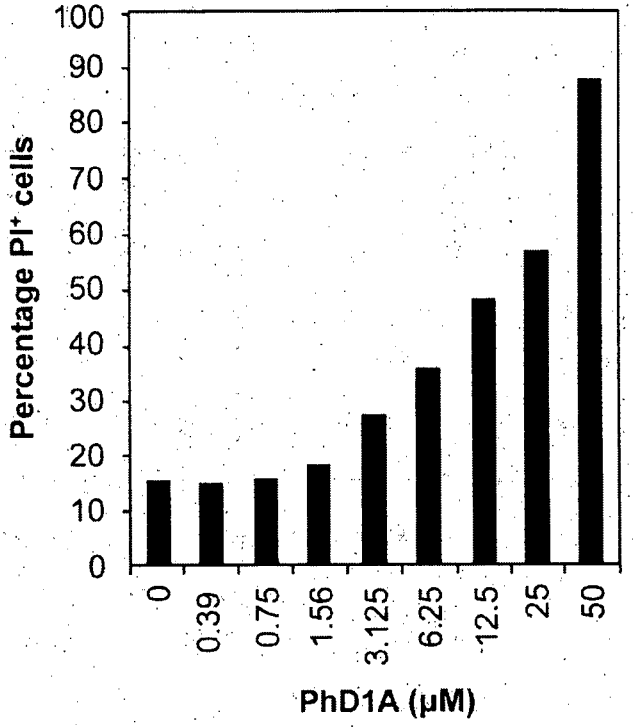


FIGURE 9B

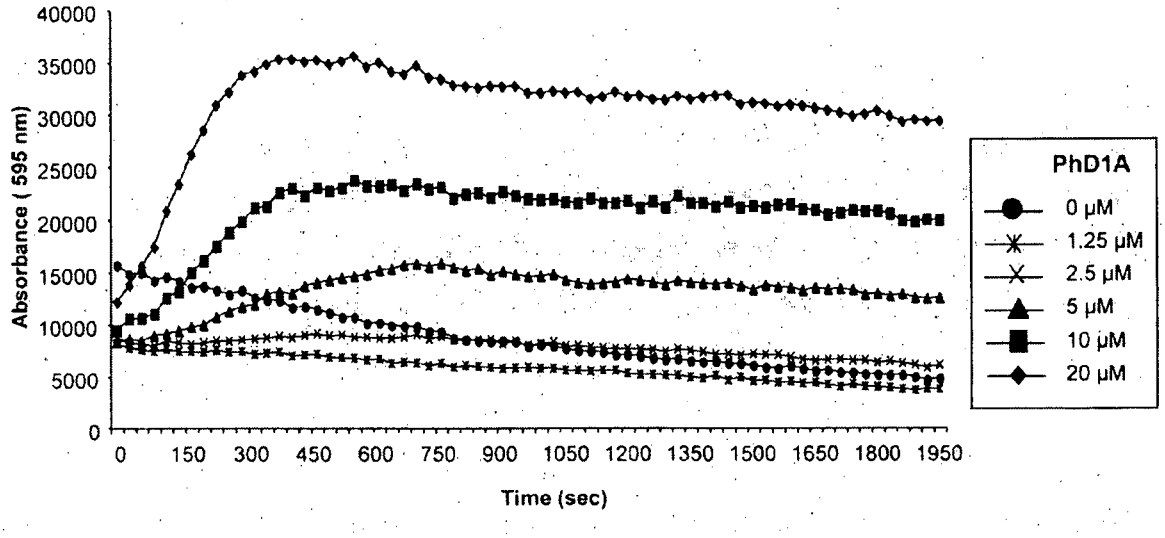
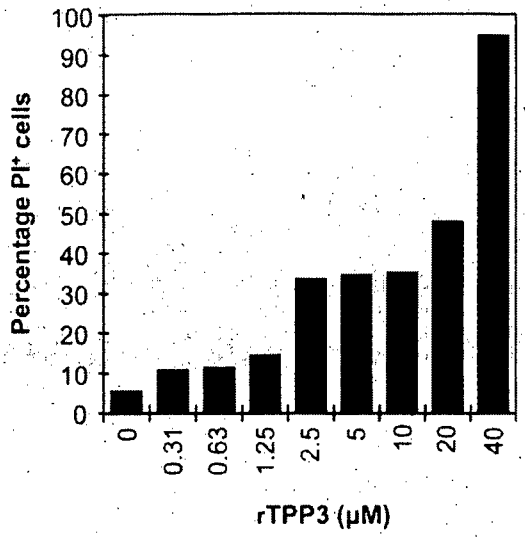


FIGURE 9C



5

FIGURE 9D

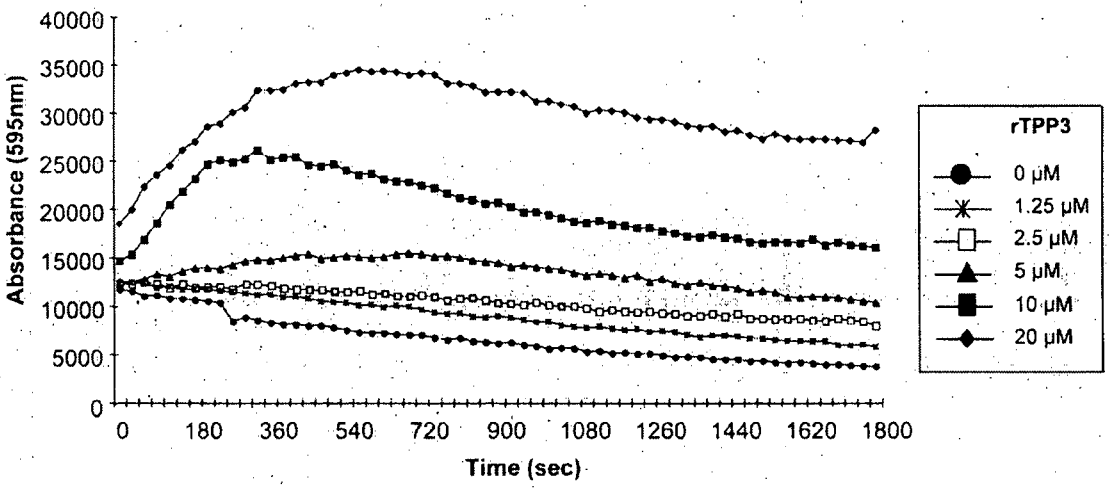


FIGURE 10

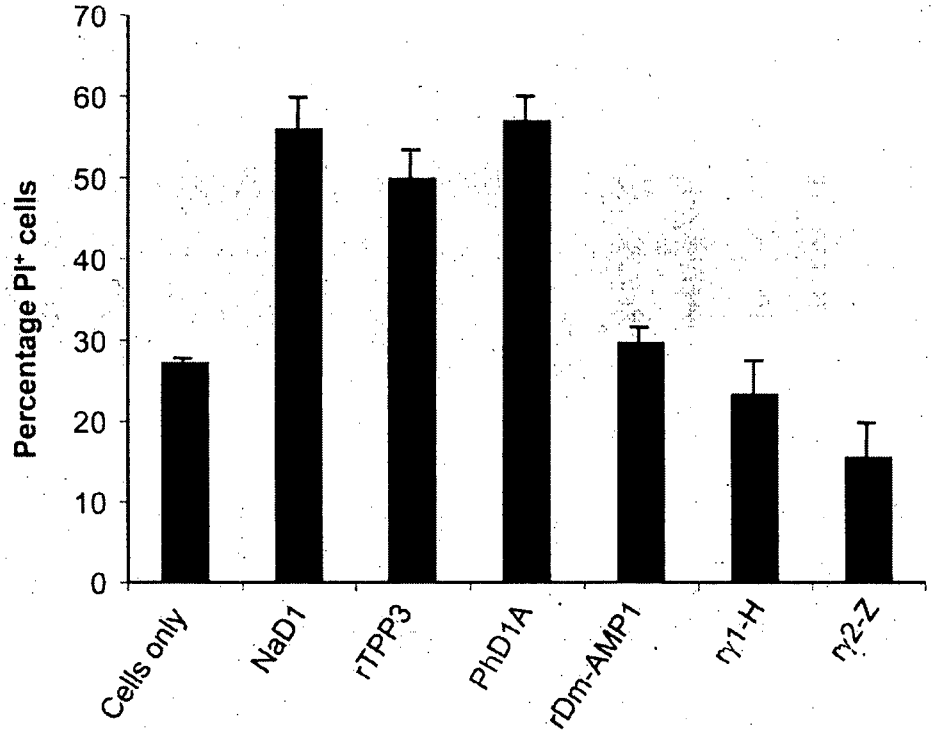

Percentage PI+ cells
70
60
50
40
30
20
10
0
Cells only
NaD1
rTPP3
PhD1A
rDm-AMP1
r1-H
r2-Z

FIGURE 11A

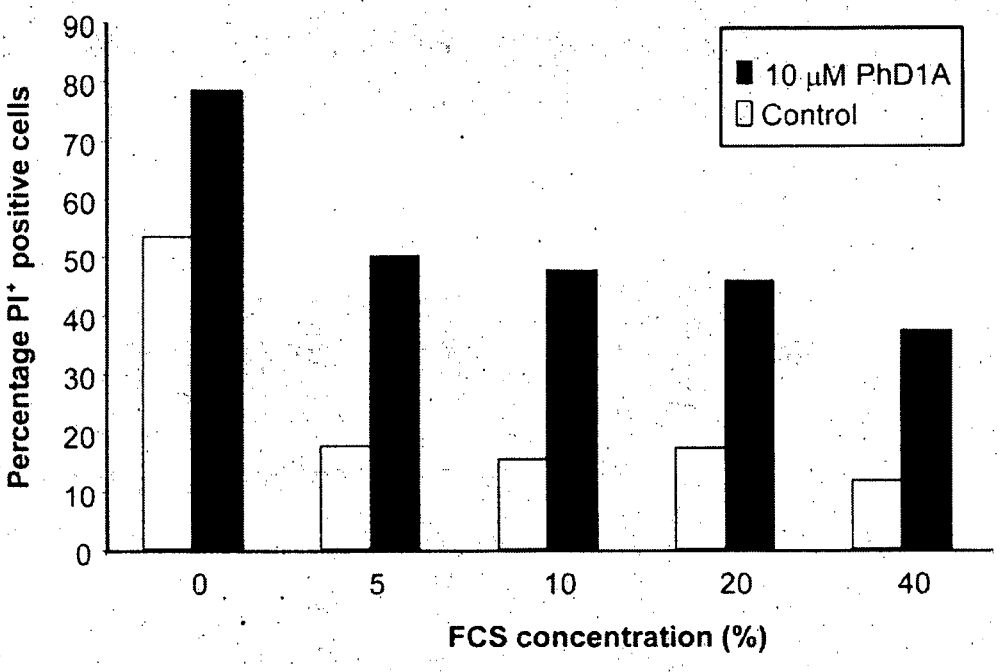


FIGURE 11B

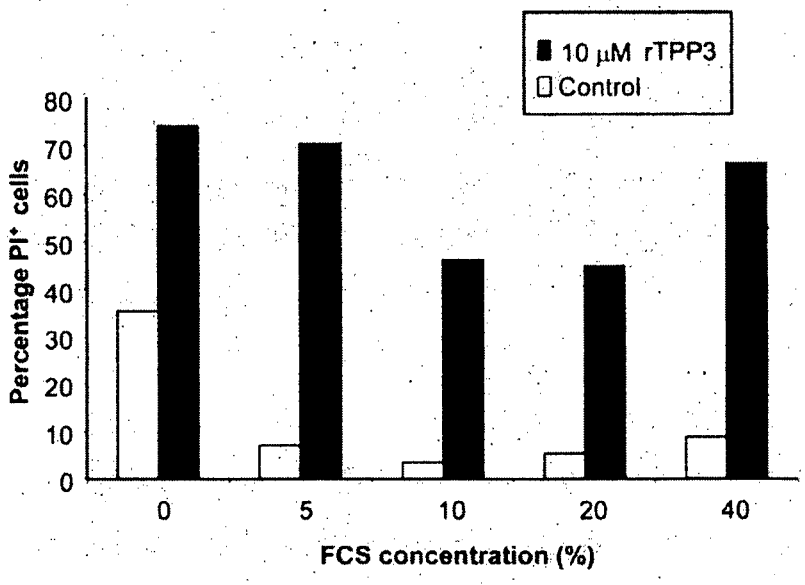


FIGURE 12A

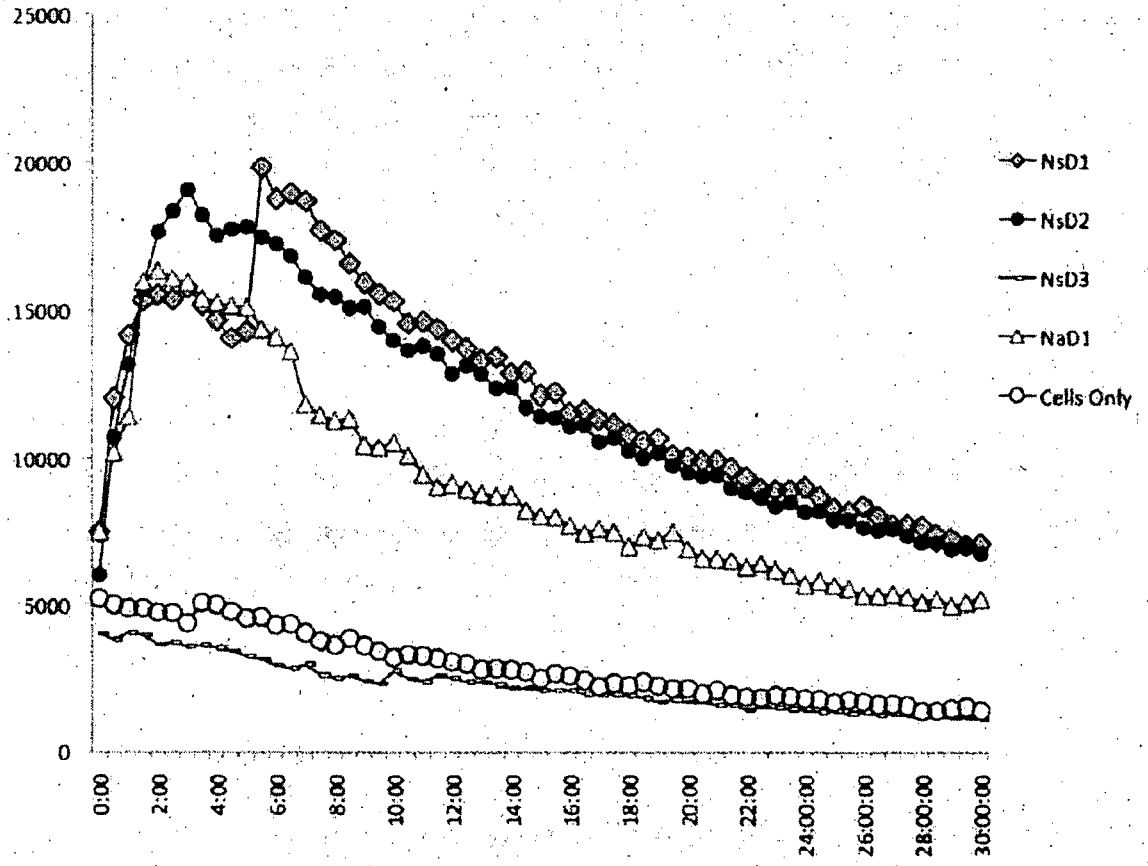
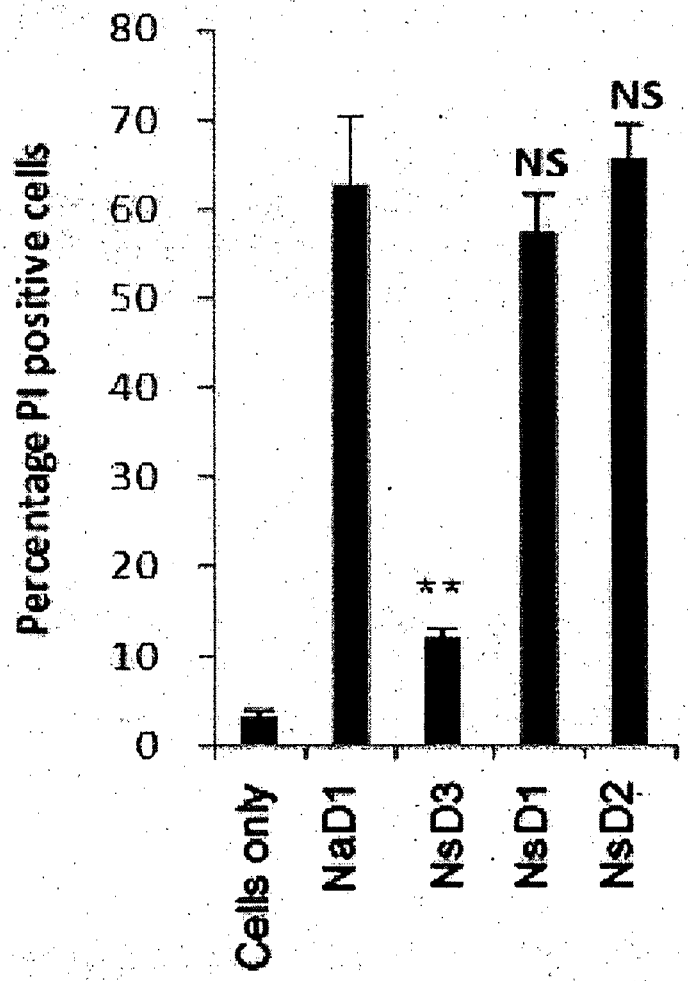

25000
20000
15000
10000
5000
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
24:00:00
26:00:00
28:00:00
30:00:00
NsD1
NsD2
NsD3
NaD1
Cells Only

FIGURE 12B


Percentage PI positive cells
80
70
60
50
40
30
20
10
0
**
NS
NS
Cells only
NaD1
NsD3
NsD1
NsD2

5

FIGURE 13

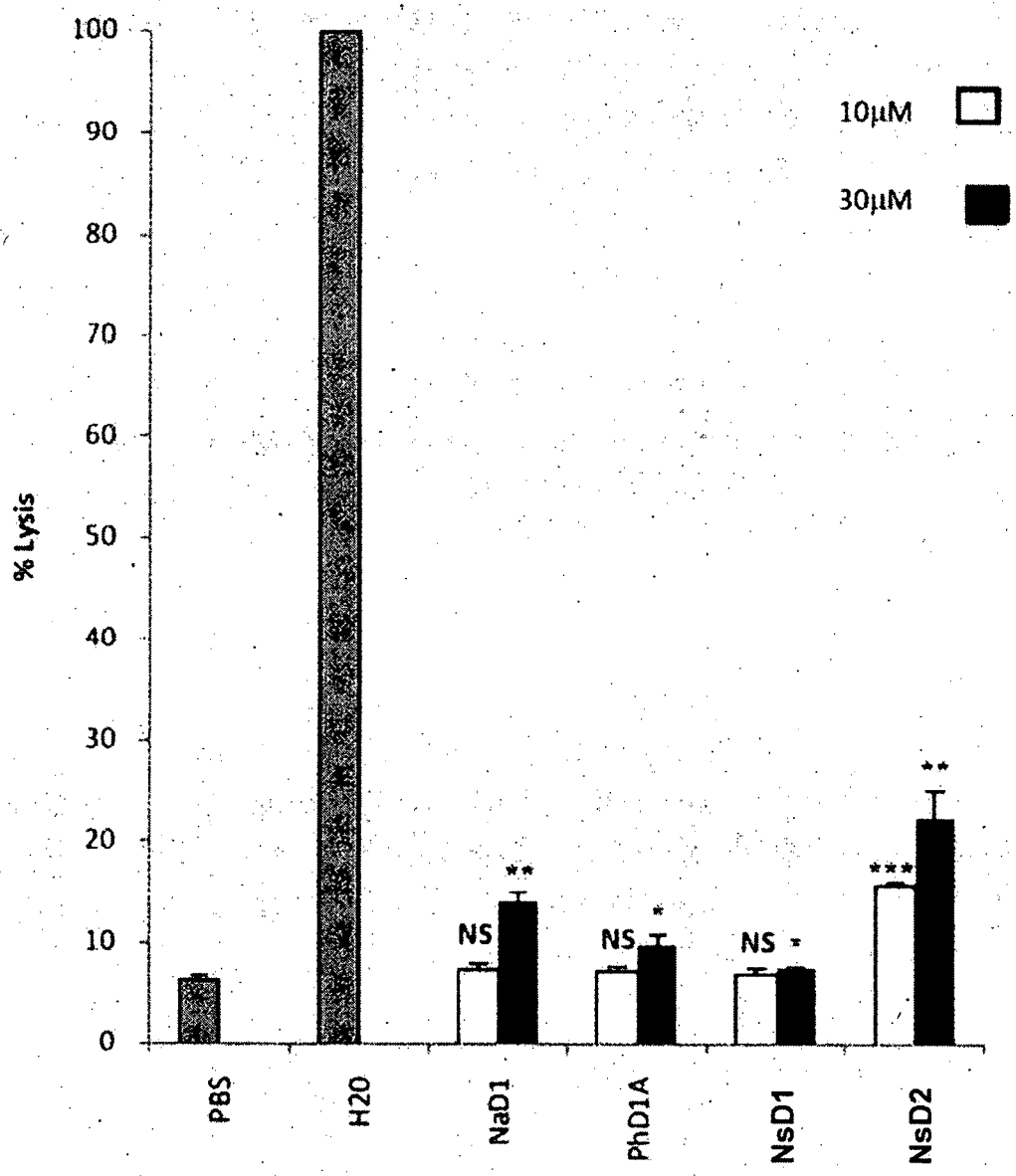
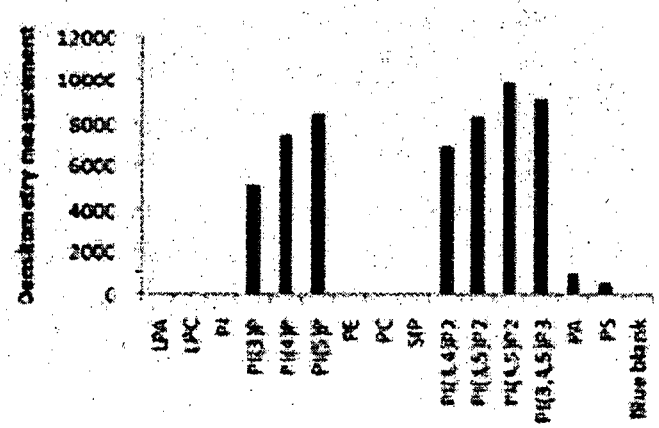

100
90
80
70
60
50
40
30
20
10
0
% Lysis
10µM
30µM
NS
NS
NS
*
**
***
**
PBS
H20
NaD1
PhD1A
NsD1
NsD2

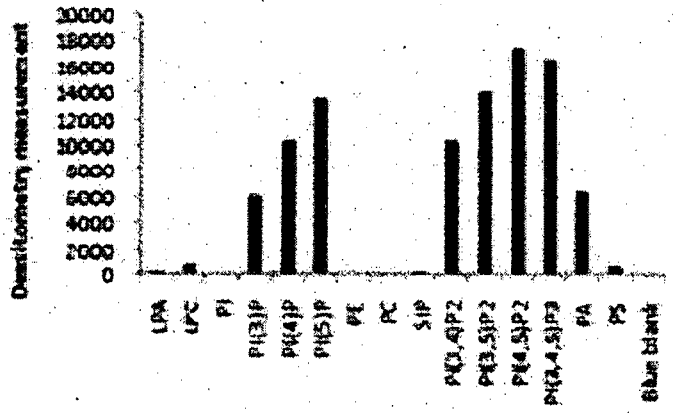
FIGURE 14

A



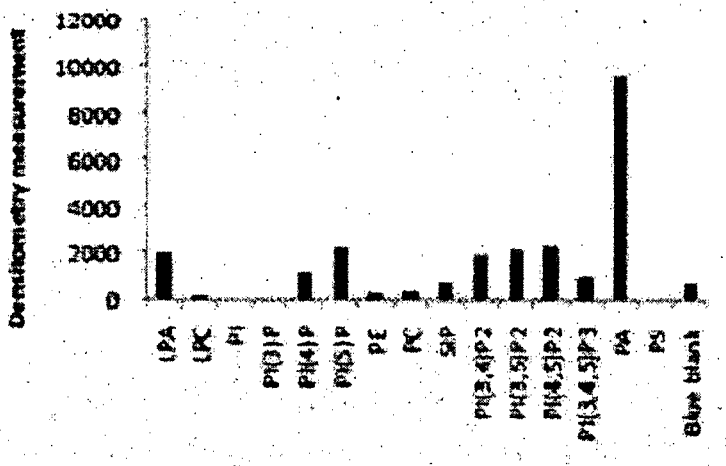
NsD1

B



NsD2

C



NsD3

5

FIGURE 14 (continued)

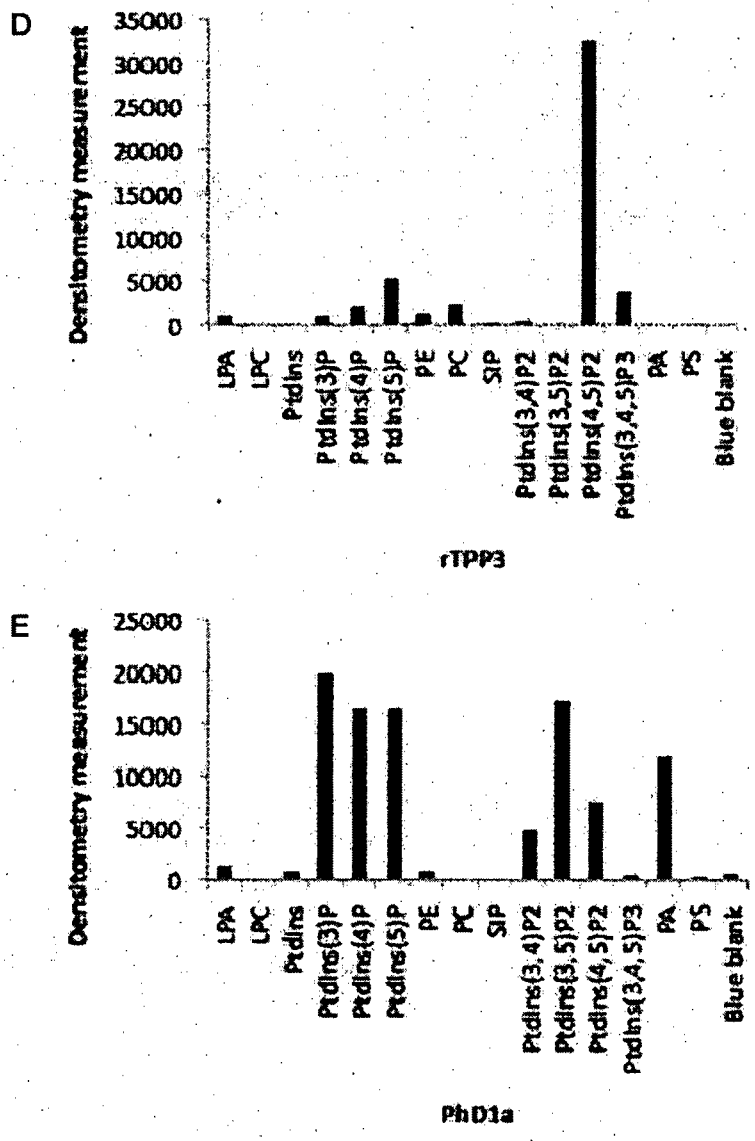
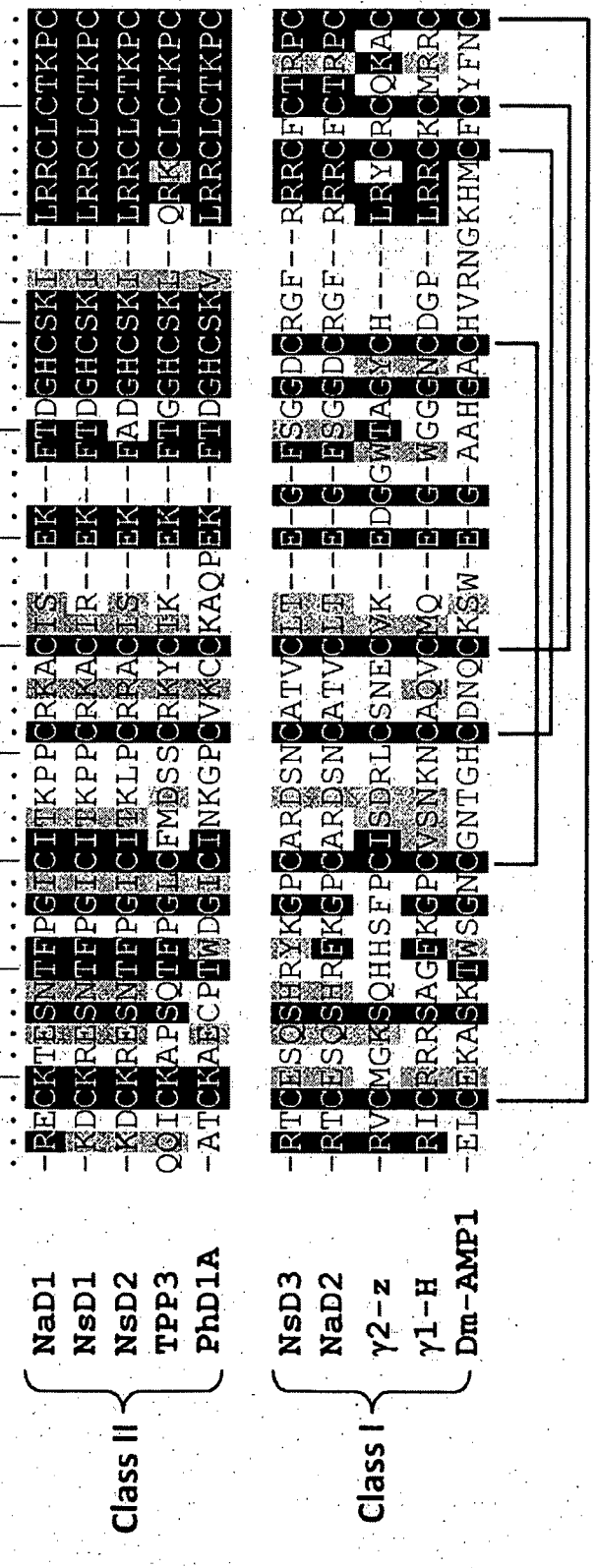


FIGURE 15


10
20
30
40
50
NaD1
NsD1
NsD2
TPP3
PhD1A
Class II
NsD3
NaD2
γ2-z
γ1-H
Dm-AMP1
Class I