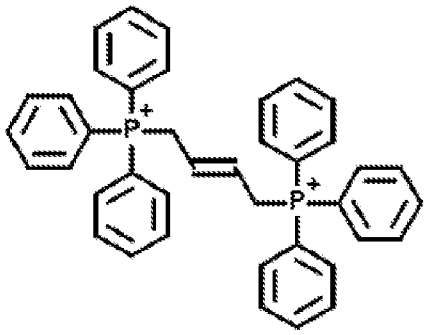
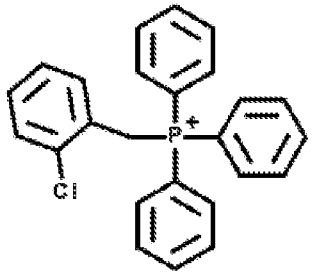
1.



2.



3.

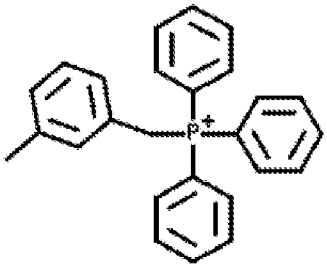
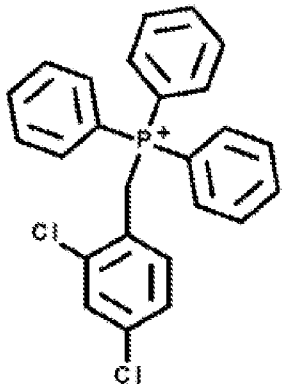
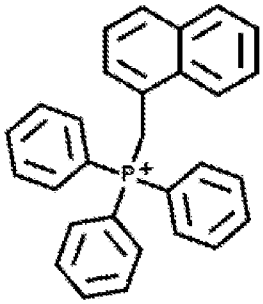


FIG. 1A

4.



5.



6.

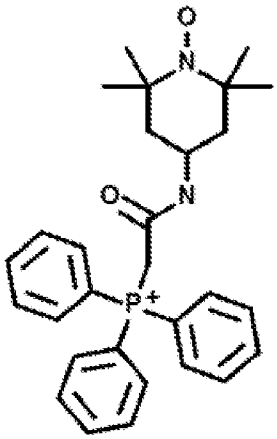
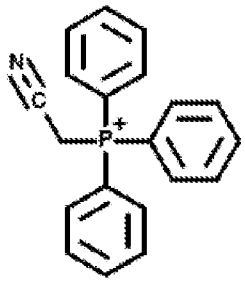
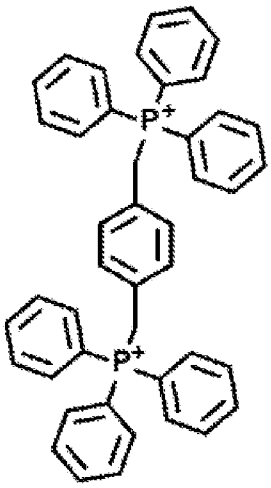


FIG. 1B

7.



8.



9.

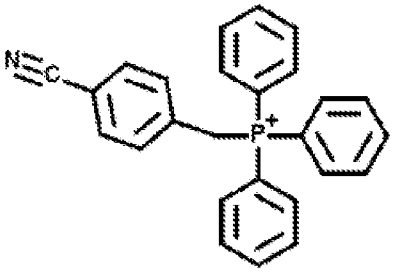


FIG. 1C

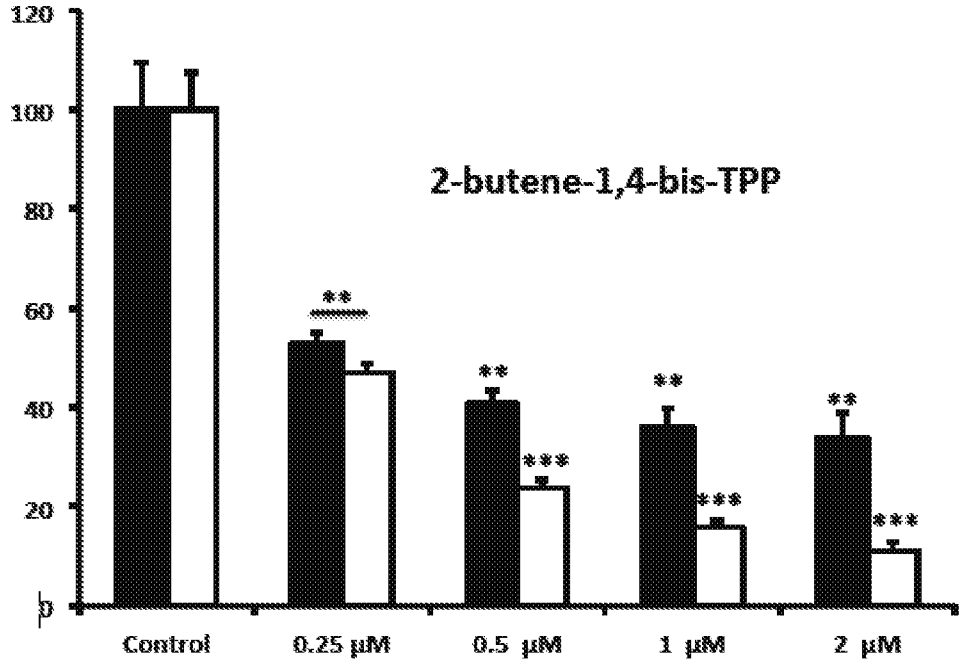

120
100
80
60
40
20
0
2-butene-1,4-bis-TPP
**
**
***
**
***
**
***
Control
0.25 µM
0.5 µM
1 µM
2 µM

FIG. 2A

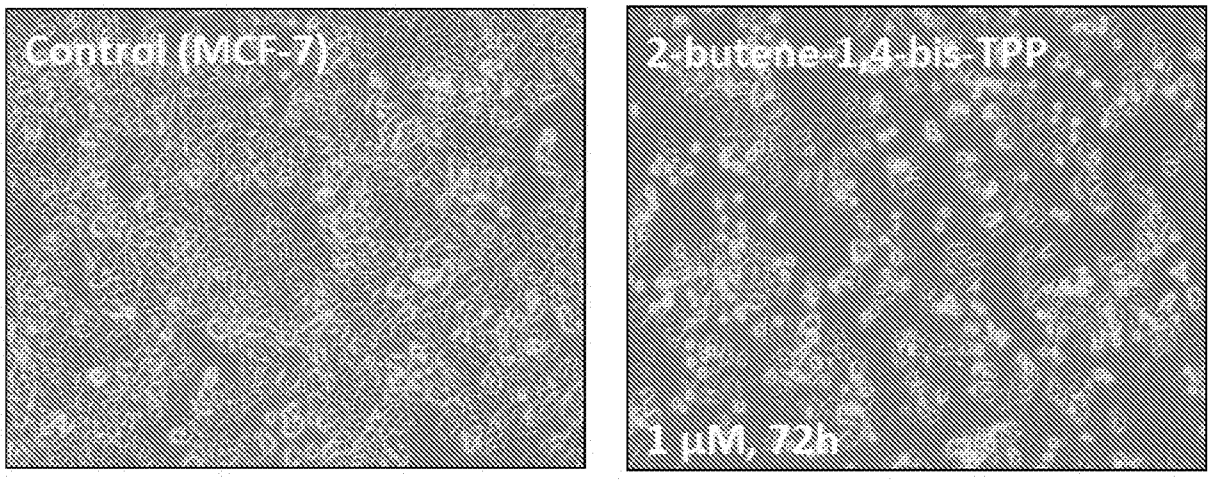

Control (MCF-7)
2-butene-1,4-bis-TPP
1 µM, 72hr

FIG. 2B

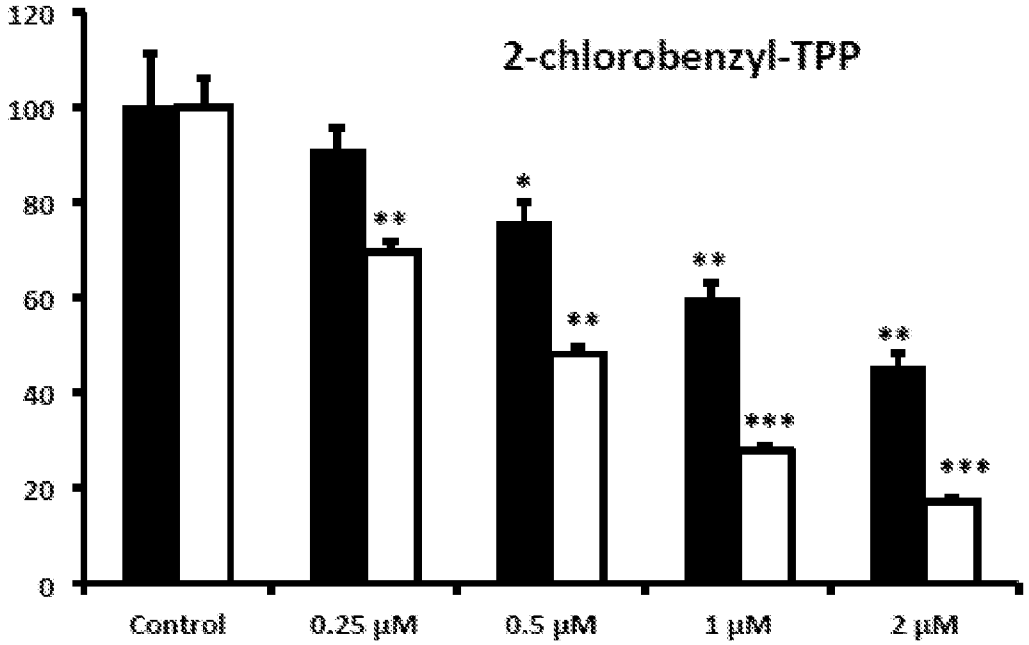

2-chlorobenzyl-TPP
120
100
80
60
40
20
0
*
**
**
**
***
**
***
Control
0.25 µM
0.5 µM
1 µM
2 µM

FIG. 3A

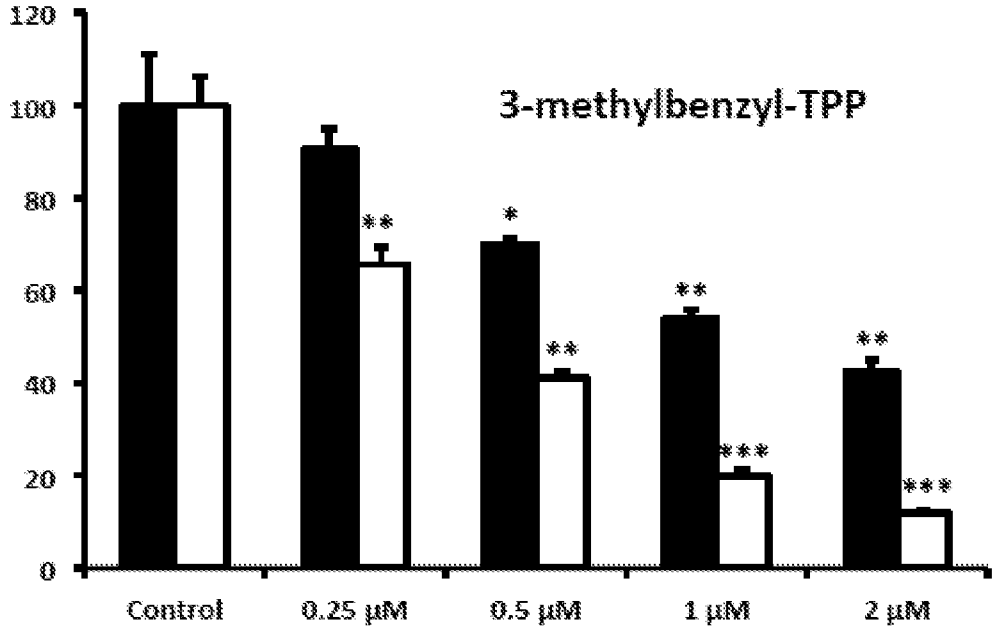

3-methylbenzyl-TPP
120
100
80
60
40
20
0
**
*
**
**
***
**
***
Control
0.25 µM
0.5 µM
1 µM
2 µM

FIG. 3B

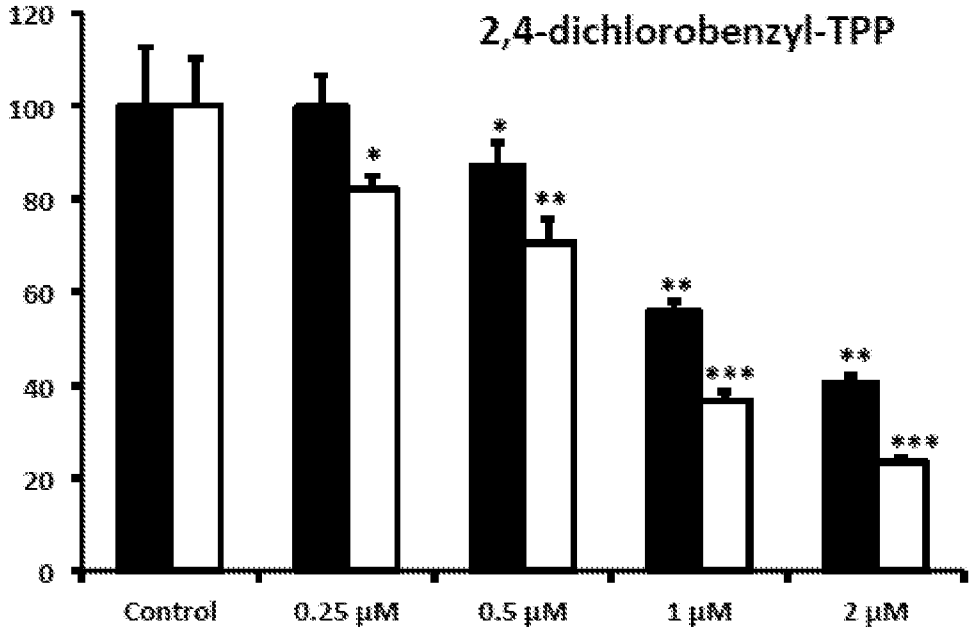

2,4-dichlorobenzyl-TPP
120
100
80
60
40
20
0
Control
0.25 µM
0.5 µM
1 µM
2 µM

FIG. 4A

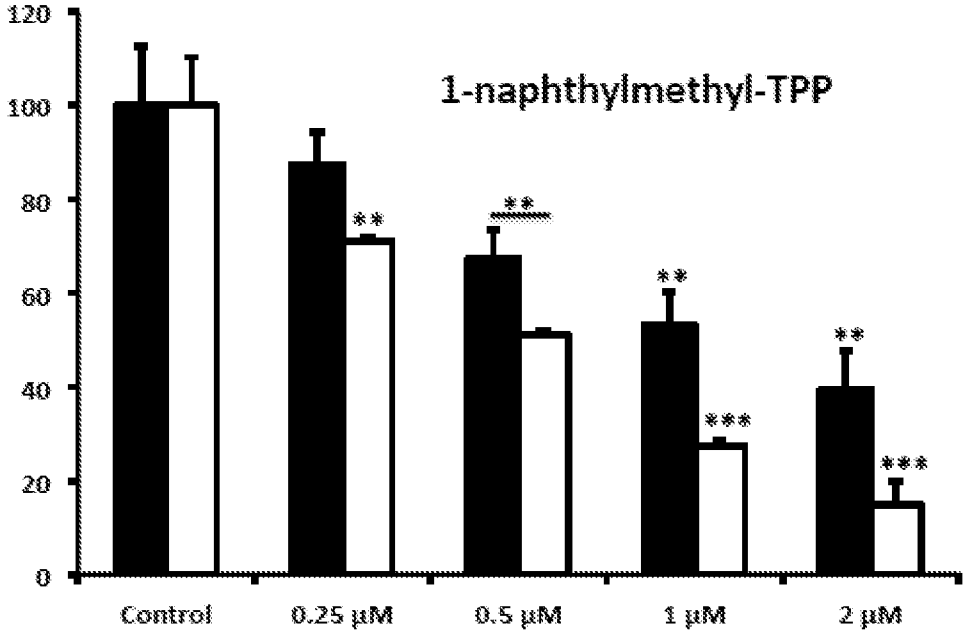

1-naphthylmethyl-TPP
120
100
80
60
40
20
0
Control
0.25 µM
0.5 µM
1 µM
2 µM

FIG. 4B

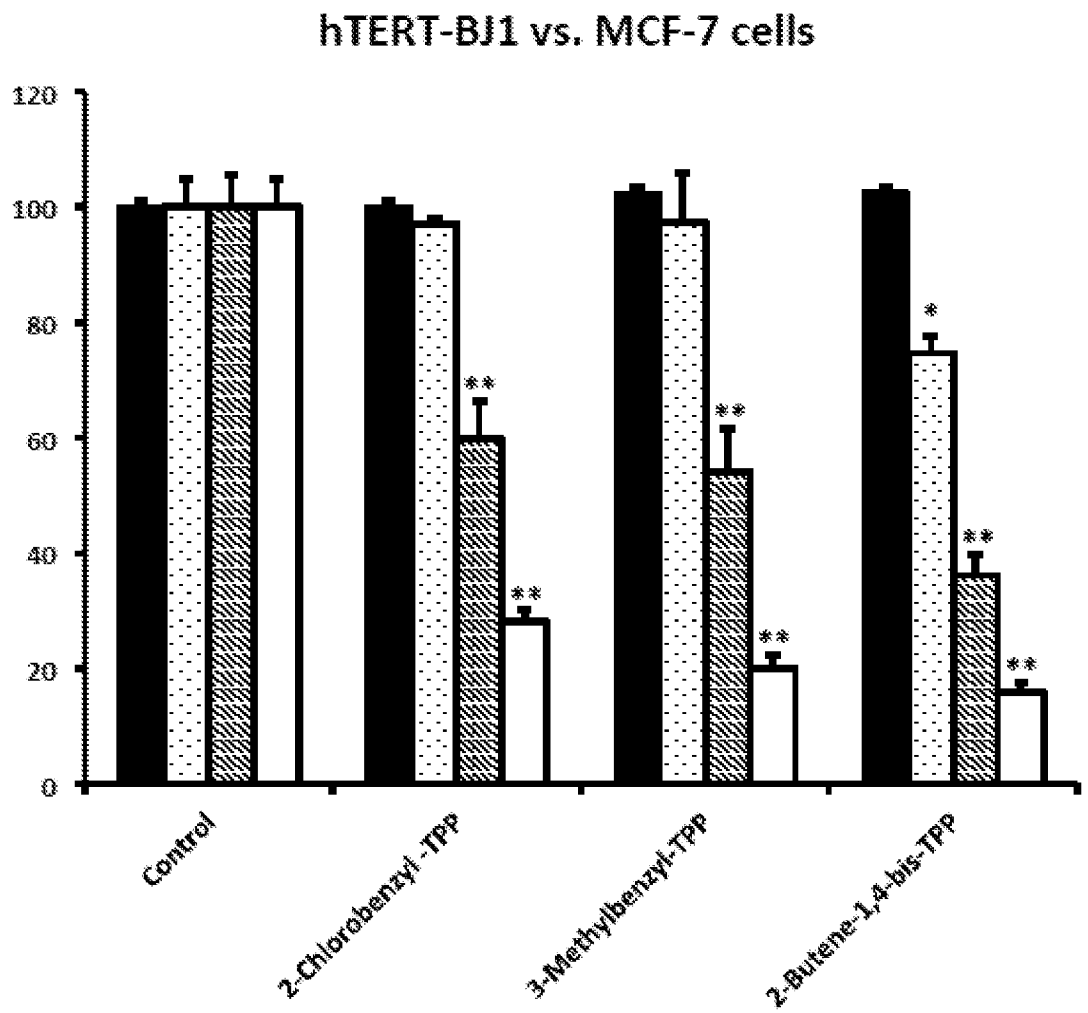

hTERT-BJ1 vs. MCF-7 cells
120
100
80
60
40
20
0
**
**
**
**
*
**
**
Control
2-Chlorobenzyl-TPP
3-Methylbenzyl-TPP
2-Butene-1,4-bis-TPP

FIG. 5

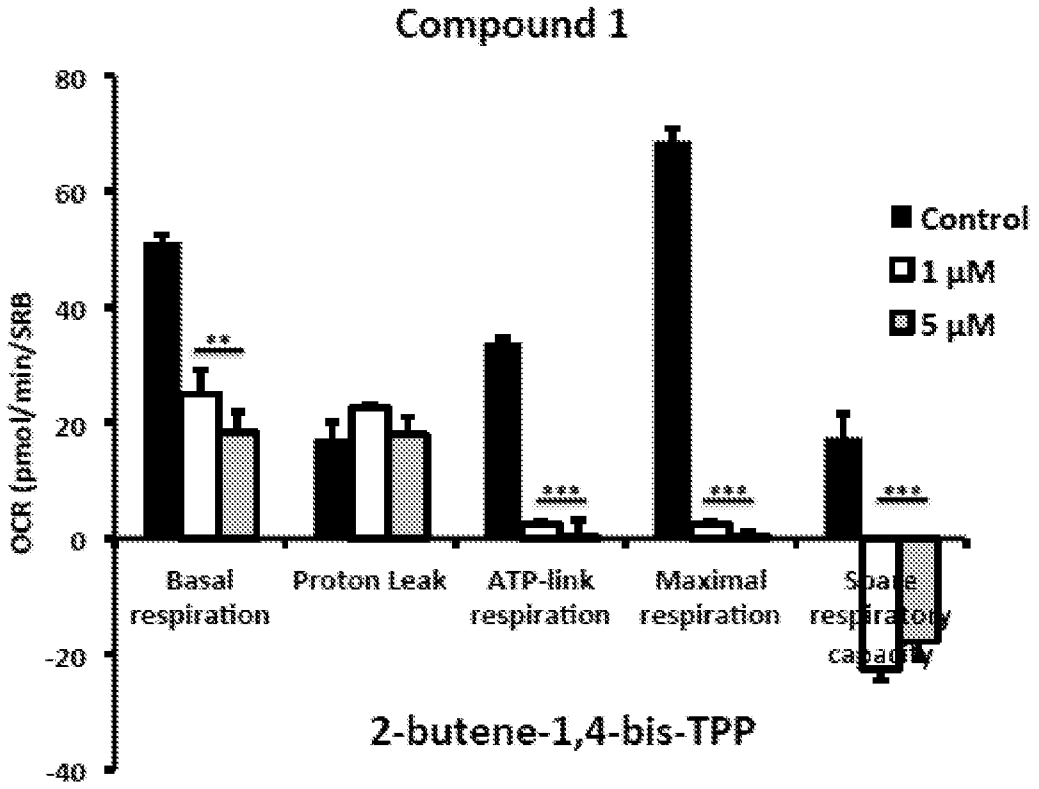

Compound 1
OCR (pmol/min/SRB
80
60
40
20
0
-20
-40
**
***
***
***
Control
1 μM
5 μM
Basal respiration
Proton Leak
ATP-link respiration
Maximal respiration
2-butene-1,4-bis-TPP

FIG. 6

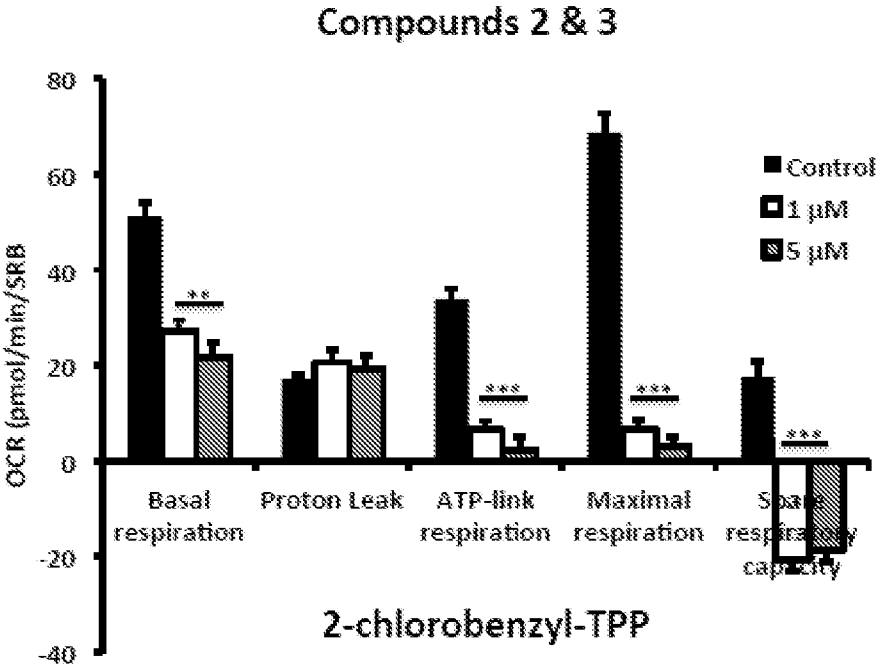

Compounds 2 & 3
80
60
40
20
0
-20
-40
OCR (pmol/min/SRB
Control
1 µM
5 µM
**
***
***
***
Basal respiration
Proton Leak
ATP-link respiration
Maximal respiration
2-chlorobenzyl-TPP

FIG. 7A

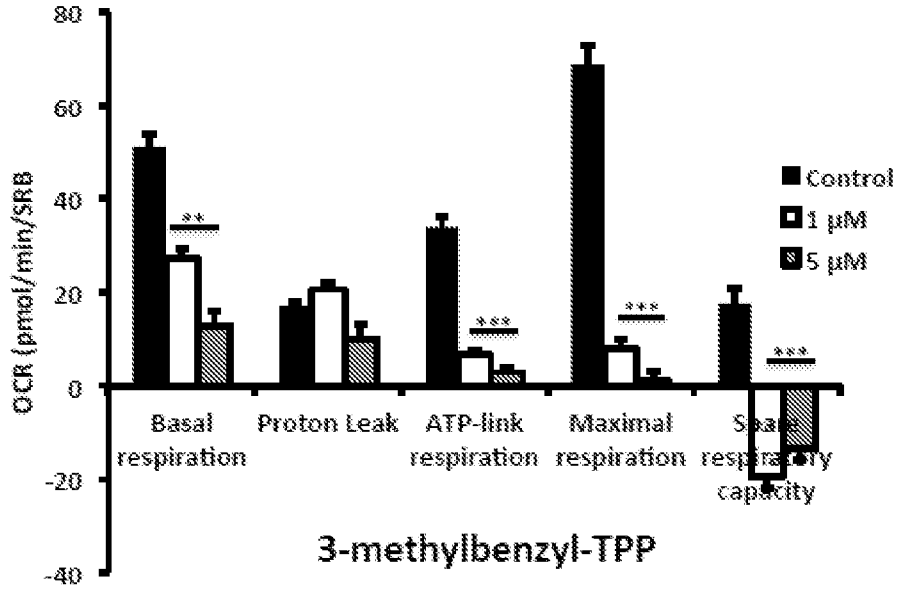

80
60
40
20
0
-20
-40
OCR (pmol/min/SRB
Control
1 µM
5 µM
**
***
***
***
Basal respiration
Proton Leak
ATP-link respiration
Maximal respiration
3-methylbenzyl-TPP

FIG. 7B

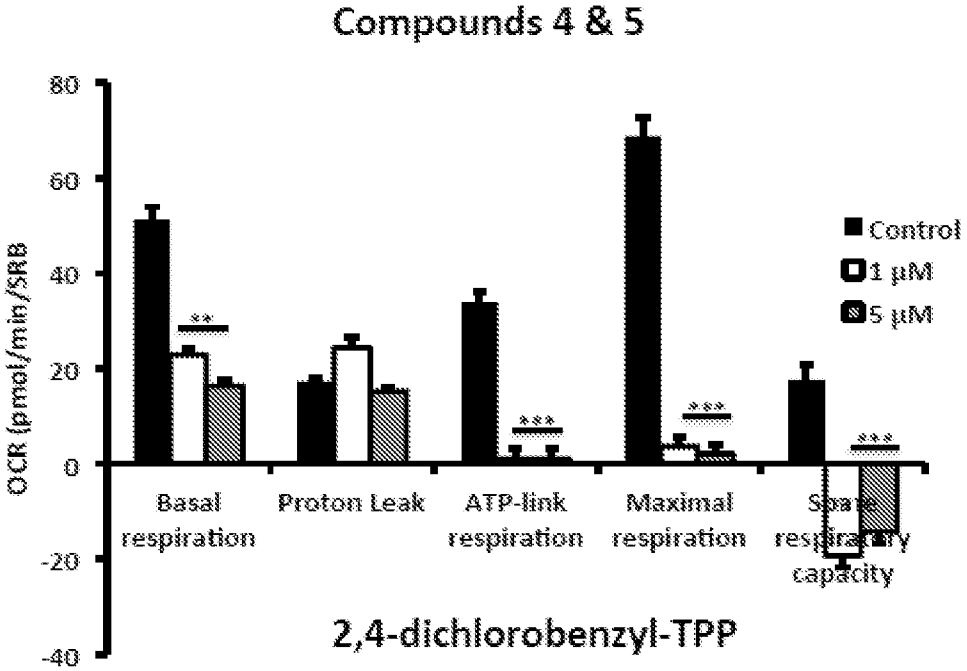

Compounds 4 & 5
OCR (pmol/min/SRB
80
60
40
20
0
-20
-40
**
***
***
***
Control
1 µM
5 µM
Basal respiration
Proton Leak
ATP-link respiration
Maximal respiration
Spare respiratory capacity
2,4-dichlorobenzyl-TPP

FIG. 8A

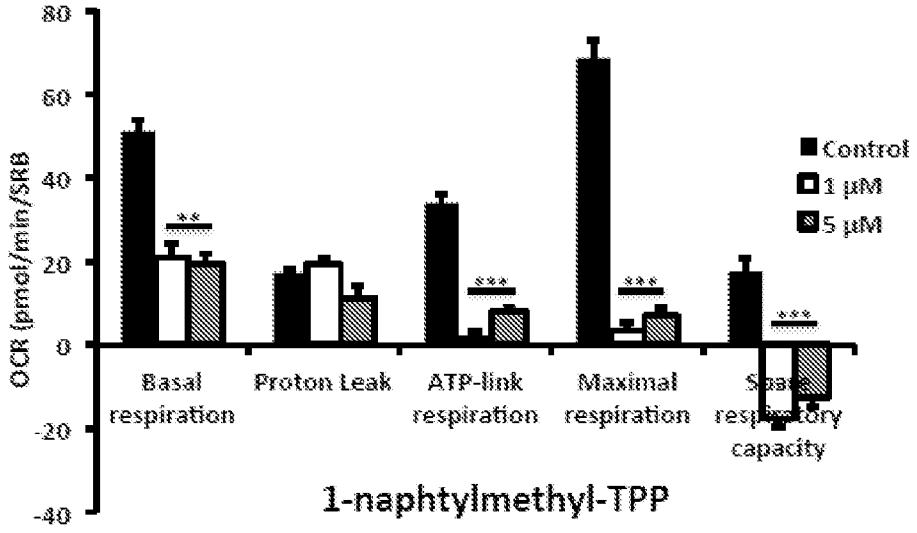

OCR (pmol/min/SRB
80
60
40
20
0
-20
-40
**
***
***
***
Control
1 µM
5 µM
Basal respiration
Proton Leak
ATP-link respiration
Maximal respiration
Spare respiratory capacity
1-naphtylmethyl-TPP

FIG. 8B

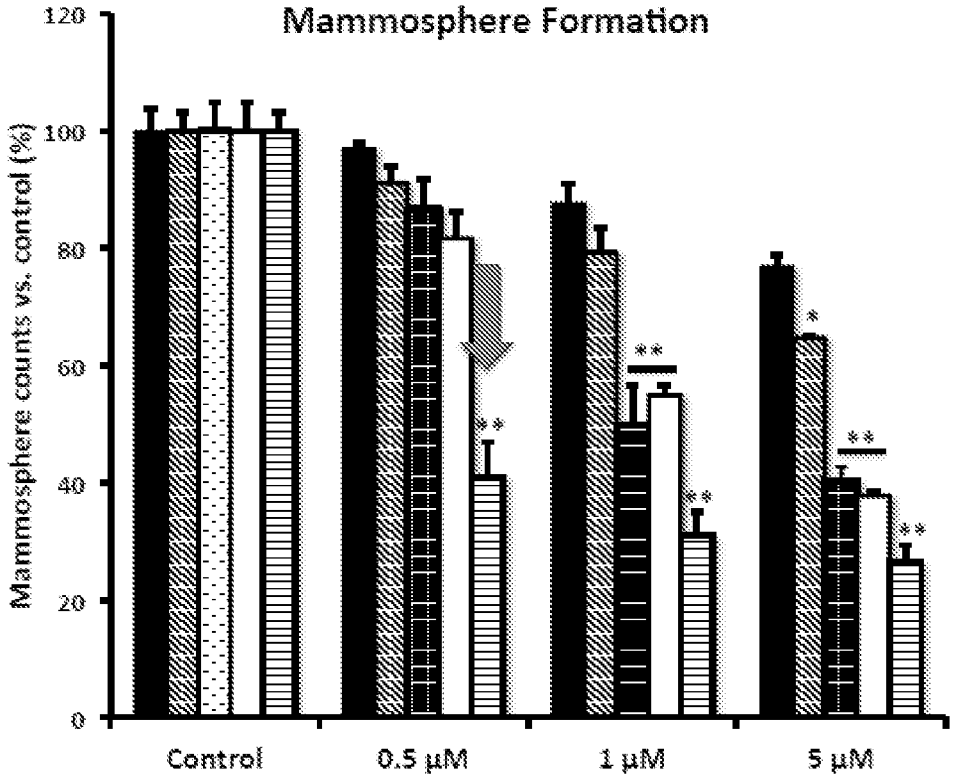

Mammosphere Formation
Mammosphere counts vs. control (%)
120
100
80
60
40
20
0
Control
0.5 µM
1 µM
5 µM
*
**

FIG. 9

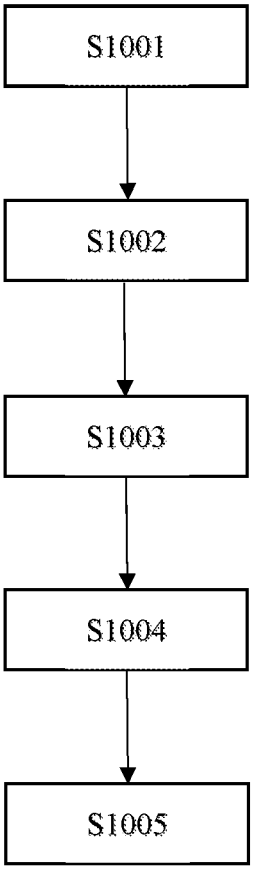


FIG. 10.

Bis-Triphenyl-Phosphonium
(Bis-TPP) Derivatives

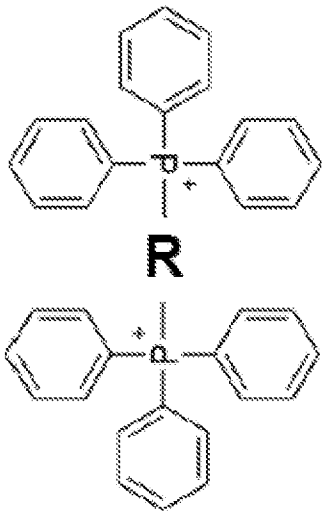
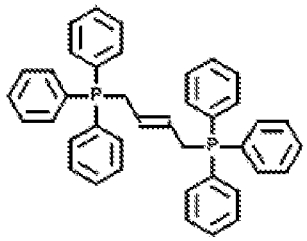


FIG. 11

(A) 2-butene-1,4-bis-TPP



(B) p-xylylene-bis-TPP

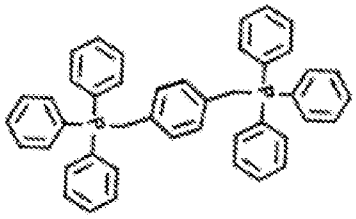


FIG. 12