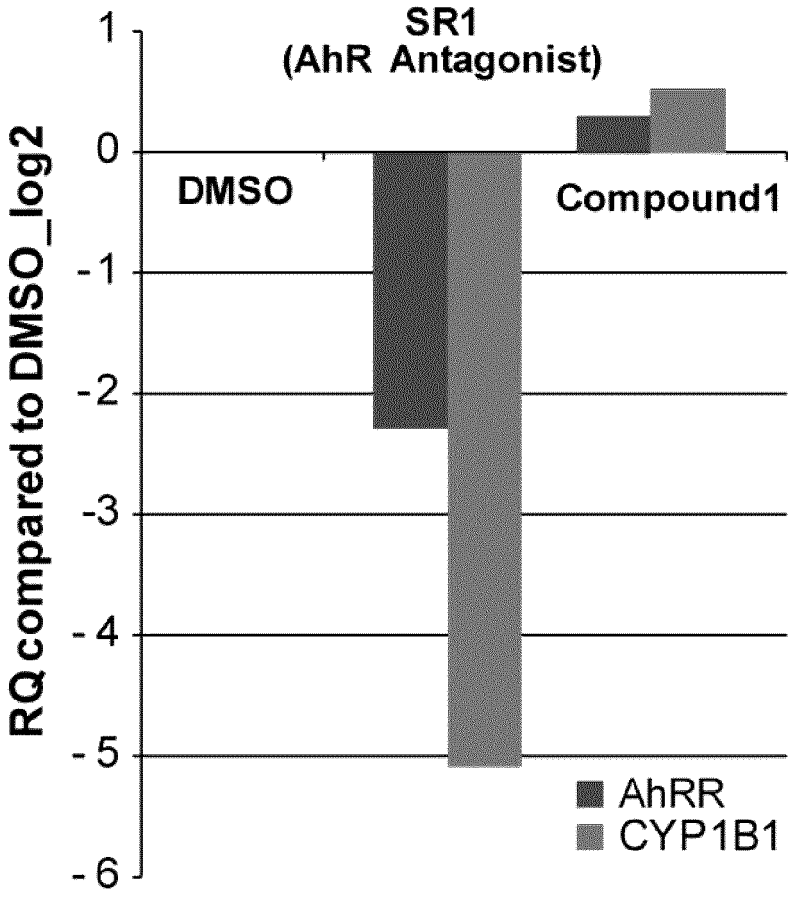
SR1
(AhR Antagonist)
RQ compared to DMSO_log2
1
0
-1
-2
-3
-4
-5
-6
DMSO
Compound1
AhRR
CYP1B1

FIGURE 1

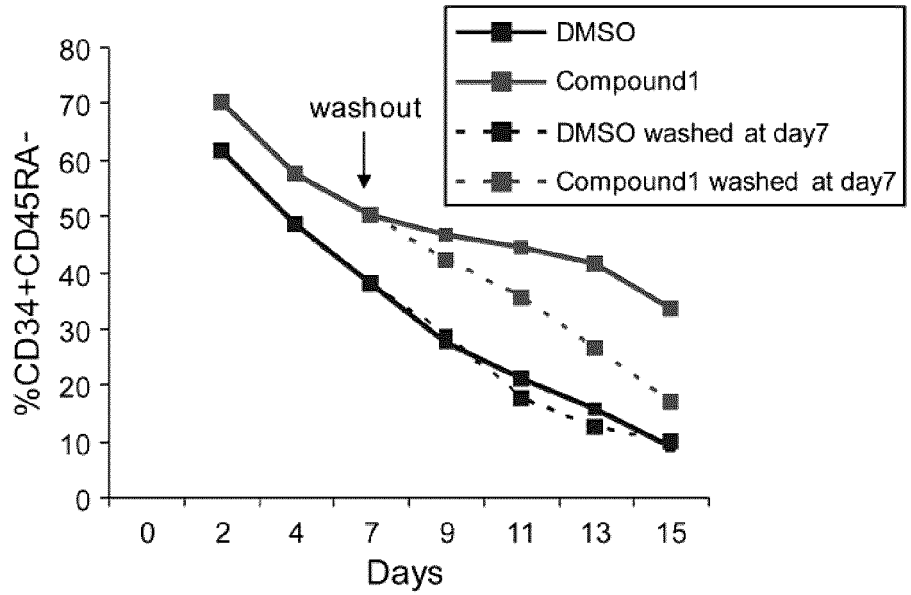
DMSO
Compound1
DMSO washed at day7
Compound1 washed at day7
washout
%CD34+CD45RA-
80
70
60
50
40
30
20
10
0
0
2
4
7
9
11
13
15
Days

FIGURE 2

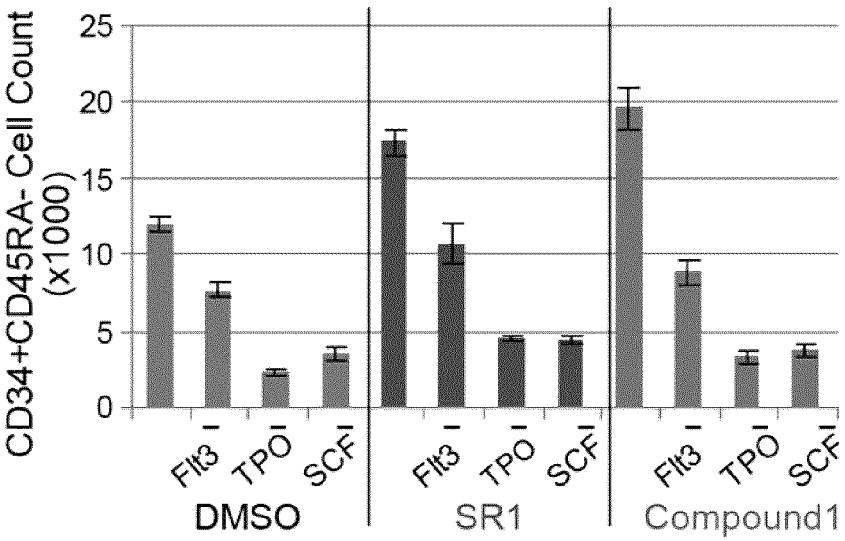
CD34+CD45RA- Cell Count (x1000)
25
20
15
10
5
0
Flt3
TPO
SCF
DMSO
SR1
Compound1

FIGURE 3

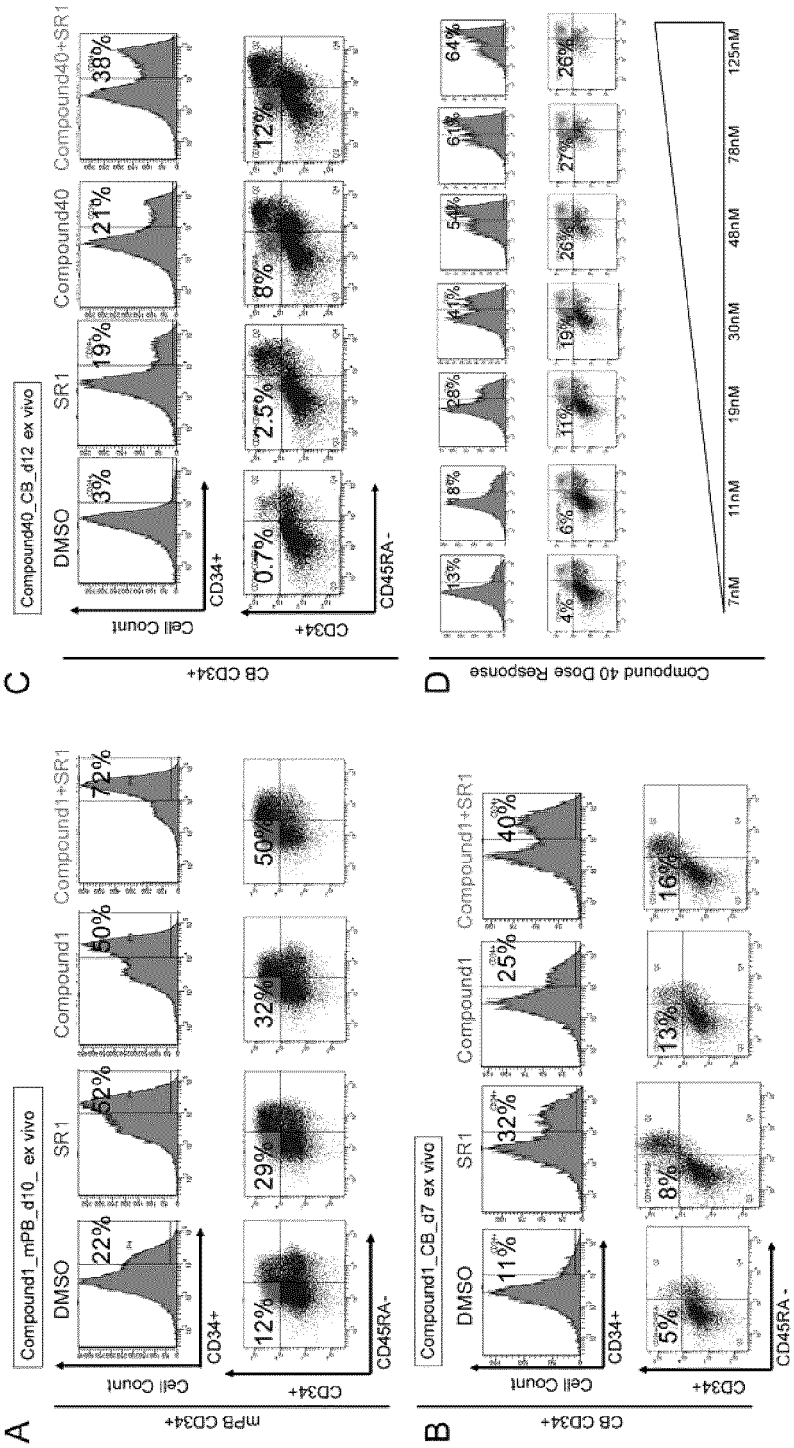
A
mPB CD34+
Compound1_mPB_d10_ ex vivo
DMSO
SR1
Compound1
Compound1+SR1
Cell Count
CD34+
CD45RA-
22%
52%
50%
72%
12%
29%
32%
50%
B
CB CD34+
Compound1_CB_d7 ex vivo
11%
32%
25%
40%
5%
8%
13%
16%
C
CB CD34+
Compound40_CB_d12 ex vivo
Compound40
Compound40+SR1
3%
19%
21%
38%
0.7%
2.5%
8%
12%
D
Compound 40 Dose Response
7nM
11nM
19nM
30nM
48nM
78nM
125nM
13%
8%
28%
41%
54%
61%
64%
4%
6%
11%
19%
26%
27%
26%

FIGURE 4

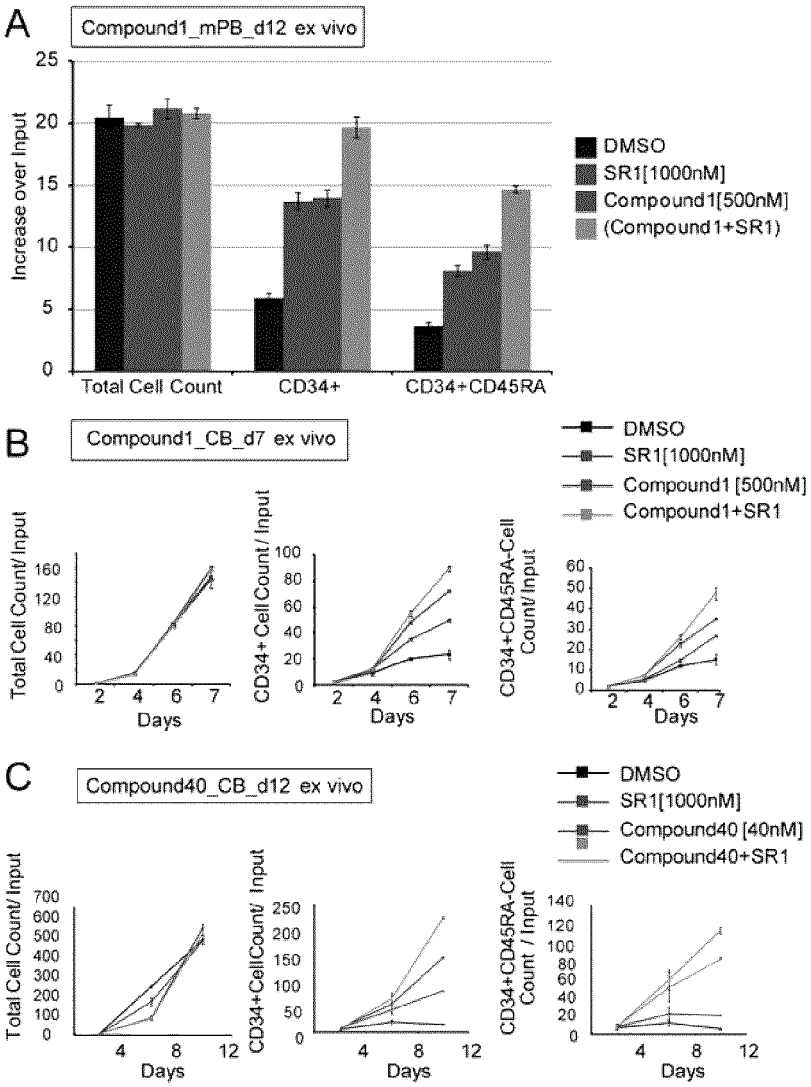
A
Compound1_mPB_d12 ex vivo
Increase over Input
25
20
15
10
5
0
Total Cell Count
CD34+
CD34+CD45RA
DMSO
SR1[1000nM]
Compound1[500nM]
(Compound1+SR1)
B
Compound1_CB_d7 ex vivo
Total Cell Count/ Input
CD34+ Cell Count / Input
CD34+CD45RA-Cell Count/ Input
Days
DMSO
SR1[1000nM]
Compound1 [500nM]
Compound1+SR1
C
Compound40_CB_d12 ex vivo
Total Cell Count/ Input
CD34+CellCount/ Input
CD34+CD45RA-Cell Count / Input
Days
DMSO
SR1[1000nM]
Compound40 [40nM]
Compound40+SR1

FIGURE 5

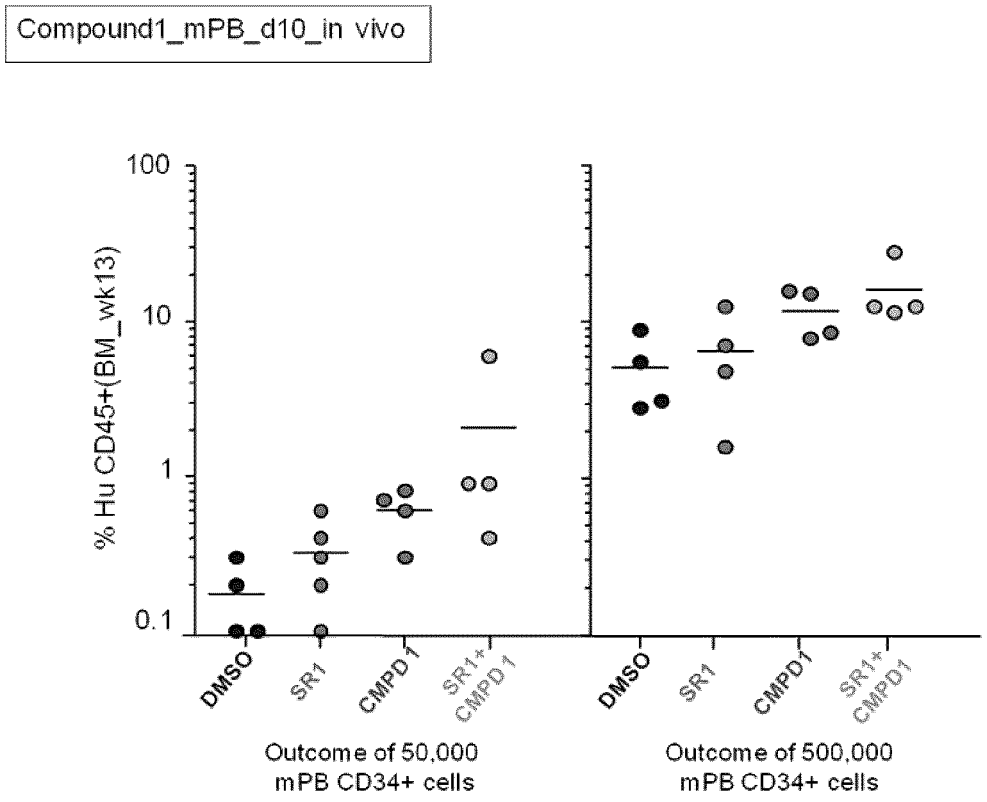
Compound1_mPB_d10_in vivo
100
10
1
0.1
% Hu CD45+(BM_wk13)
DMSO
SR1
CMPD1
SR1+ CMPD1
DMSO
SR1
CMPD1
SR1+ CMPD1
Outcome of 50,000 mPB CD34+ cells
Outcome of 500,000 mPB CD34+ cells

FIGURE 6

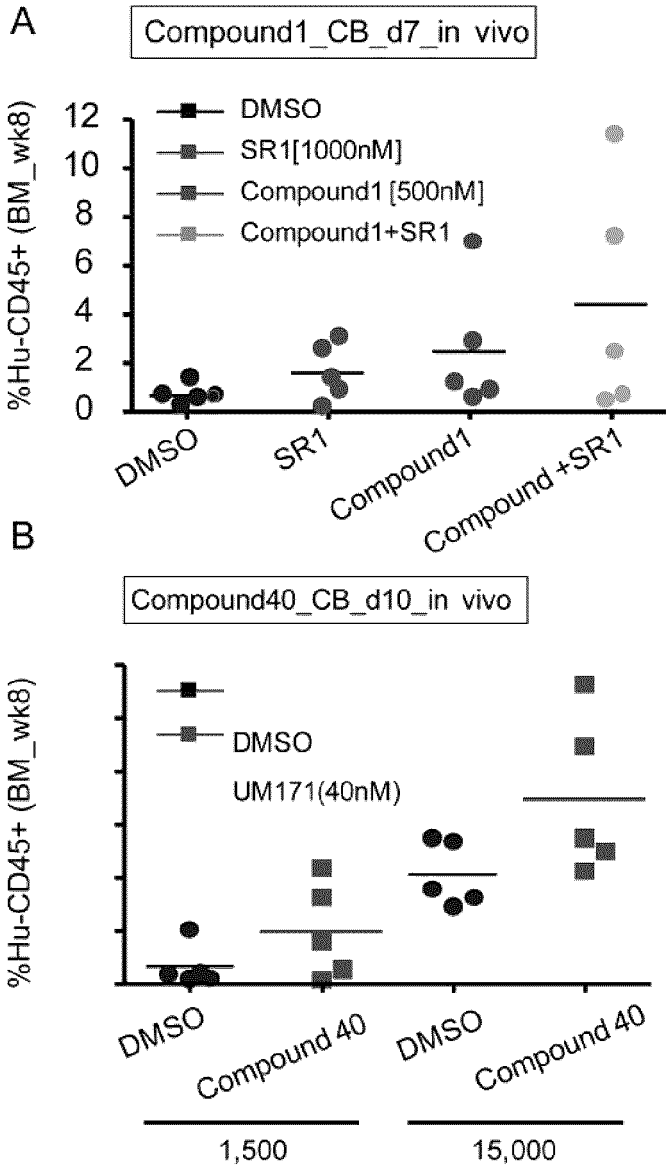
A
Compound1_CB_d7_in vivo
%Hu-CD45+ (BM_wk8)
12
10
8
6
4
2
0
DMSO
SR1[1000nM]
Compound1 [500nM]
Compound1+SR1
DMSO
SR1
Compound1
Compound +SR1
B
Compound40_CB_d10_in vivo
%Hu-CD45+ (BM_wk8)
DMSO
UM171(40nM)
DMSO
Compound 40
DMSO
Compound 40
1,500
15,000

FIGURE 7

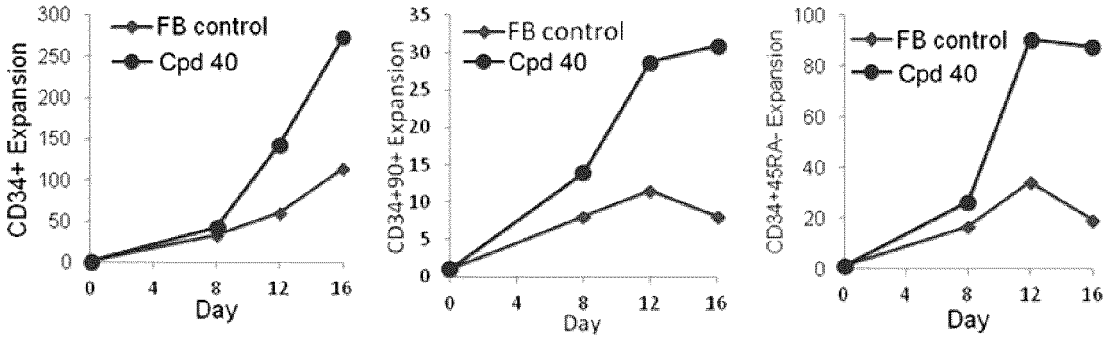
CD34+ Expansion
300
250
200
150
100
50
0
FB control
Cpd 40
0
4
8
12
16
Day
CD34+90+ Expansion
35
30
25
20
15
10
5
0
FB control
Cpd 40
0
4
8
12
16
Day
CD34+45RA- Expansion
100
80
60
40
20
0
FB control
Cpd 40
0
4
8
12
16
Day

FIGURE 8