

Figure S1. Time course of cytotoxicity of PF-114 in K562 cells. Cells were treated with 0-50 nM PF-114 for the indicated time intervals followed by an MTT assay. Data are presented as the mean  $\pm$  standard deviation of three independent measurements.

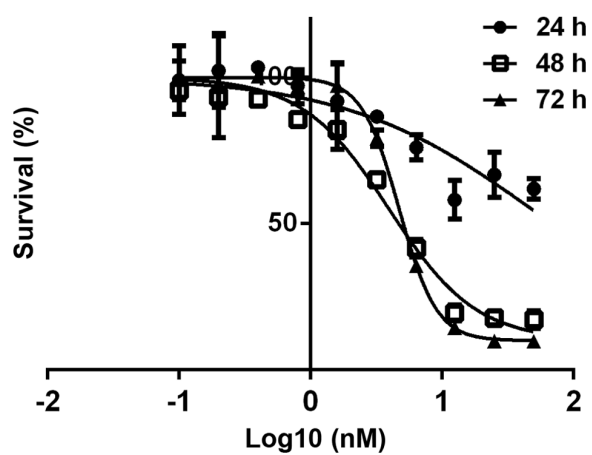


Figure S2. Expression of Bax and Bak proteins in K562 cells treated with PF-114. K562 cells were treated with the indicated concentrations of PF-114 for 24 h. Proteins were analyzed by immunoblotting. Bax, Bcl-2-associated X protein; Bak, Bcl-2 homologous antagonist killer.

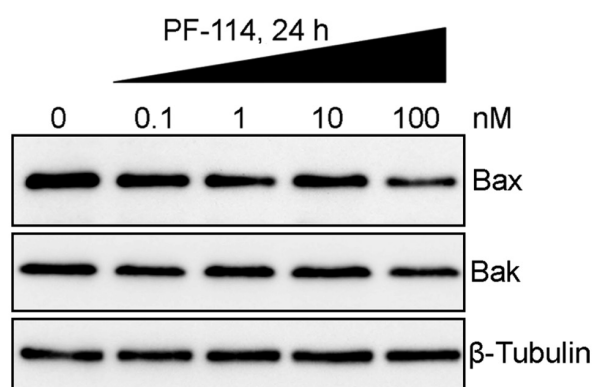


Figure S3. Expression of total and phosphorylated GSK-3 $\beta$  in K562 cells treated with PF-114. K562 cells were treated with the indicated concentrations of PF-114 for 24 h. Proteins were analyzed by immunoblotting. GSK-3 $\beta$ , glycogen synthase kinase-3 $\beta$ .

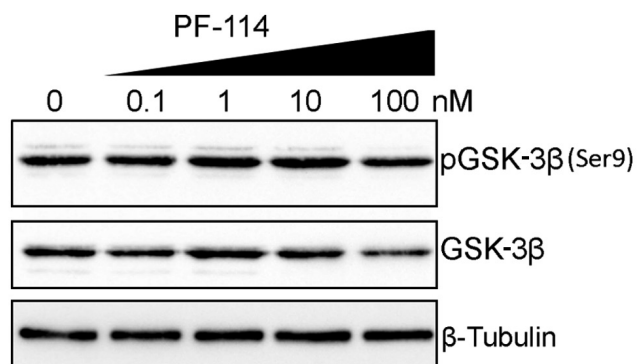


Table SI. Primary antibodies used in the present study.

Protein	Primary antibody against human protein	Manufacturer	Cat. no.
$\beta$ -Actin	rabbit	Cell Signaling Technology, Inc.	4970
Akt	rabbit	Cell Signaling Technology, Inc.	4691
pAkt	rabbit	Cell Signaling Technology, Inc.	4060
Bad	rabbit	Cell Signaling Technology, Inc.	9239
pBad	rabbit	Cell Signaling Technology, Inc.	9291
Bak	rabbit	Cell Signaling Technology, Inc.	12105
Bax	rabbit	Cell Signaling Technology, Inc.	5023
Bcl-xL	rabbit	Cell Signaling Technology, Inc.	2764
Bcl-2	rabbit	Cell Signaling Technology, Inc.	2870
Bid	rabbit	Cell Signaling Technology, Inc.	2002
Bim	rabbit	Cell Signaling Technology, Inc.	2933
Caspase-9	mouse	Cell Signaling Technology, Inc.	9508
Cleaved caspase-9	rabbit	Cell Signaling Technology, Inc.ng	7237
CrkL	rabbit	Santa Cruz Biotechnology, Inc.	K1212
pCrkL	mouse, PE conjugated	BD Biosciences	560788
Erk 1/2	rabbit	Cell Signaling Technology, Inc.	4695
pErk 1/2	rabbit	Cell Signaling Technology, Inc.	4370
GSK-3 $\beta$	rabbit	Cell Signaling Technology, Inc.	9832
pGSK-3 $\beta$	rabbit	Cell Signaling Technology, Inc.	9332
pJak2 (Y1007)	rabbit	Cell Signaling Technology, Inc.	4406
pJak3 (Y980/981)	rabbit	Cell Signaling Technology, Inc.	5031
Mcl-1	rabbit	Cell Signaling Technology, Inc.	5453
PARP	rabbit	Cell Signaling Technology, Inc.	9542
Cleaved PARP	rabbit	Cell Signaling Technology, Inc.	5625
STAT5	rabbit	Cell Signaling Technology, Inc.	9363
pSTAT5 (Y694)	rabbit	Cell Signaling Technology, Inc.	4322
pSTAT3 (S727)	rabbit	Cell Signaling Technology, Inc.	9134
pSTAT3 (Y705)	rabbit	Cell Signaling Technology, Inc.	9145
STAT3	rabbit	Cell Signaling Technology, Inc.	4904
$\beta$ -tubulin	rabbit	Cell Signaling Technology, Inc.	2146
p27	rabbit	Cell Signaling Technology, Inc.	3686