

Table S3 Initial conditions

p53 oscillation system

$p53(0)=0.0001$, $Mdm2(0)=0.5875e-4$, $I(0)=0.0$, $Deg(0)=0.0556$

G2/M phase cell cycle arrest

$Chk1p(0)=2.5e-7$, $Chk1(0)=0.24999975$, $transducer(0)=0.05$, $iMPF(0)=0.25e-6$,
 $aMPF(0)=0.25e-8$, $p21(0)=0.0$, $p21:aMPF(0)=0.0$, $Wee1p(0)=0.0$, $iCdc25(0)=0.25e-6$,
 $iCdc25Ps216(0)=0.5e-5$, $iCdc25P:14_3_3(0)=0.0075$, $aCdc25(0)=0.25e-6$,
 $aCdc25Ps216(0)=0.0$, $14-3-3(0)=0.5$, $Wee1(0)=0.00025$

Apoptosis induction system

$Apaf_1(0)=0.004$, $CytC:Apaf_1(0)=0.0$, $apoptosome(0)=0.0$, $apoptosome:procaspase9(0)=0.0$,
 $apoptosome:procaspase9_2(0)=0.0$, $apoptosome:caspase9_2(0)=0.0$,
 $apoptosome:caspase9(0)=0.0$, $caspase9(0)=0.0$, $procaspase9(0)=0.004$, $IAP(0)=0.004$,
 $caspase9:IAP(0)=0.0$, $apoptosome:caspase9:IAP(0)=0.0$, $apoptosome:caspase9_2:IAP(0)=0.0$,
 $caspase3:IAP(0)=0.0$, $procaspase3(0)=0.004$, $caspase9:procaspase3(0)=0.0$,
 $apoptosome:caspase9_2:procaspase3(0)=0.0$, $caspase3(0)=0.00001$, $caspase8(0)=0.0001$,
 $Bid(0)=0.004$, $caspase8:Bid(0)=0.0$, $Bcl_2(0)=0.004$, $caspase3:Bid(0)=0.0$,
 $caspase3:Bcl_2(0)=0.0$, $Bax(0)=0.004$, $tBid(0)=0.0$, $tBid:Bax(0)=0.0$, $CytC_{mito}(0)=0.004$,
 $Bax_2(0)=0.0$, $tBid_{mito}(0)=0.0$, $CytC(0)=0.0$, $p21:procaspase3(0)=0.0$
