Table S4: Table of Negative Regulatory Effects and Their Related Rate Constants

	R-SMAD DEPHOSPHORYLATION	RECEPTOR DEGRADATION	P-SMAD DEGRADATION	ENDOGENOUS SYNTHESIS AND DEGRDATION OF R-SMAD	RECEPTOR INHIBITIONS	PPM1A UPREGULATION BY EXPRESSION	PPM1A STABILIZATION
$kdeph_{pSmad2}$	estimated	0	0	0	0	0	0
$kdeg_{pSmad2}$	0	0	estimated	estimated	0	0	0
v_{Smad2}	0	0	0	5.7143 $nMmin^{-1}$	0	0	0
$kdeg_{Smad2}$	0	0	0	0.01 min^{-1}	0	0	0
klid	0	estimated	0	0	0	0	0
kSmad7	0	0	0	0	estimated	0	0
$kfSmad7_{cave}$	0	0	0	0	estimated	0	0
$kbSmad7_{cave}$	0	0	0	0	estimated	0	0
$kfSmad7_{ee}$	0	0	0	0	estimated	0	0
$kbSmad7_{ee}$	0	0	0	0	estimated	0	0
$kdeph_{LRC}$	0	0	0	0	estimated	0	0
$kdeg_{LRC}$	0	0	0	0	estimated	0	0
v_{PPM1A}	0	0	0	0	0	0.1 $nMmin^{-1}$	7 $nMmin^{-1}$
$kdeg_{PPM1A}$	0	0	0	0	0	0.01 min^{-1}	0.07 min^{-1}
$kdeph_{PPM1A}$	0	0	0	0	0	estimated	estimated
kPPM1A	0	0	0	0	0	estimated	0
kfPPM1A	0	0	0	0	0	0	estimated
kbPPM1A	0	0	0	0	0	0	estimated
krPPM1A	0	0	0	0	0	0	estimated
kfPP	0	0	0	0	0	0	estimated
kbPP	0	0	0	0	0	0	estimated
kfPTEN	0	0	0	0	0	0	estimated
kbPTEN	0	0	0	0	0	0	estimated
$kimp_{PPM1A}$	0	0	0	0	0	0	0.07 min^{-1}
$kimp_{PP}$	0	0	0	0	0	0	estimated
$kexp_{PP}$	0	0	0	0	0	0	estimated
$kexp_{PTEN}$	0	0	0	0	0	0	estimated