

Supplementary

GSK-3484862 targets DNMT1 for degradation in cells

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Table S1. Oligonucleotides used in this study

Figure S1. GSK compounds induce DNMT1 depletion in GDM-1 cells.

Table S1. Oligonucleotides used in this study

Gene		Primers used for RT-qPCR			
Human <i>DNMT1</i>		Forward: 5'-GAG GCC TGG CCG GAA GCG CAA GCG C-3' Reverse: 5'-GTC TCA GTT CCC TCT CCT TCA GCT G-3'			
Human <i>IPO8</i>		Forward: 5'-CTA TGC TCT CGT TCA GTA TGC-3' Reverse: 5'-GTC CGA AAG ATC TCC ATC CA-3'			
Human <i>RPLP0</i>		Forward: 5'-TTC ATT GTG GGA GCA GAC-3' Reverse: 5'-CAG CAG TTT CTC CAG AGC-3'			
Mouse <i>Dnmt1</i>		Forward: 5'-CAT GGT GCT GAA GCT CAC ACT GCG-3' Reverse: 5'-CAG CCA AGA TGA TGG CCC TCC TTC-3'			
Mouse <i>Gapdh</i>		Forward: 5'-AAG AGA GGC CCT ATC CCA ACT C-3' Reverse: 5'-TTG TGG GTG CAG CGA ACT TTA TTG-3'			
Gene		Primers used for generating the PC:SF mutation (restriction sites for cloning underlined)			
Mouse <i>Dnmt1</i>		Forward-1 (at 5' end): 5'-AAG <u>GCG GCC GCG CGA</u> ACA GCT CCA GCC CG-3' Reverse-1 (at 3' end): 5'-GAG <u>CAC TAG TCC</u> TTG GTA GCA GCC-3' Forward-2 (at PC motif): 5'-GCC <u>AAG CTT CCA</u> GGG CTT CAG TGG CAT GAA C-3' Reverse-2 (at PC motif): 5'-TGG <u>AAG CTT GGC CCA</u> CCA CAC AGC ATC TCC-3'			
Specificity		Oligo probe used for Southern blot			
Mouse minor satellite repeats		[Biotin]-5'-ACT GAA AAA CAC ATT CGT TGG AAA CGG GAT TTG TAG AAC AGT GTA TAT CAA TGA GTT ACA ATG AG-3'			
Locus		Oligos used for bisulfite pyrosequencing		PCR product	Sequence to analyze (Y=C/T and R=G/A)
Human <i>FOXP3</i>	F2	5'-GGG GTT TGT ATT TGG GTT TTG T-3'		132 bp	TTY GTT ATT GAY GTT ATG GYG GTY GGA TGY GTY GGG TTT TAT YGA T
	Rbio2	[Biotin]-5'-AAT AAA ATA TCT ACC CTC TTC TCT TCC-3'			
	S2	5'-ATA GTT TTA GAT TTG TTT AGA TTT T-3'			
Human <i>H19</i>	F2bio	[Biotin]-5'-GGG GGT TTT TGT ATA GTA TAT GGG T-3'		240 bp	TAC CRC CRC RCR ACC ACT TCC RAT TC
	R2	5'-TCC CAT AAA TAT CCT ATT CCC AAA TAA C-3'			
	S2	5'-AAC TAT AA TAT ATA AAC CTA CAC-3'			
Human <i>LINE1</i>	F4	5'-TTT TGA GTT AGG TGT GGG ATA TA-3'		146 bp	TTY GTG GTG YGT YGT TTT TTA AGT YGG TTT G
	Rbio2	[Biotin]-5'-AAA ATC AAA AAA TTC CCT TTC-3'			
	S4	5'-GGT GTG GGA TAT AGT-3'			

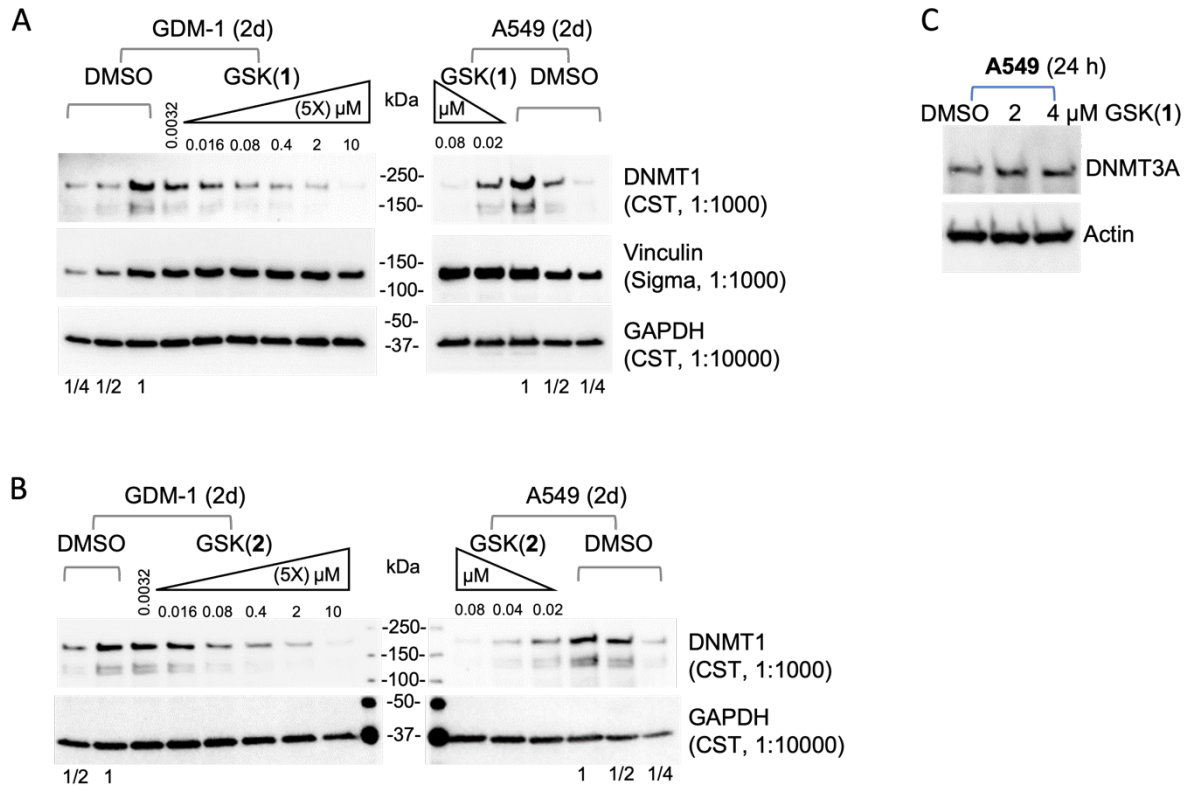


Figure S1. GSK compounds induce DNMT1 depletion in GDM-1 cells, but less severely compared to A549 cells. Shown are DNMT1 levels in cells treated with various concentrations of GSK(1) (A) or GSK(2) (B). The DMSO lanes are 2 \times dilution of cell lysates as indicated (1, 1/2 and 1/4). (C) A repeated experiment showing that GSK(1) does not induce DNMT3A depletion.