

Supplementary Tables

Table S1: Compound specific mass spectrometric parameters^a for dG, ¹⁵N₅-dG, N²-MIE-dG, N⁶-MIE-dA, [¹⁵N₅]- N²-MIE-dG and [¹⁵N₅]- N⁶-MIE-dA.

	Q1	Q3	DP	FP	EP	CEP	CE	CXP
dG	268.175	151.9 ^b	6	350	4.5	12	15	18
	268.175	134.9	6	350	4.5	12	47	20
¹⁵ N ₅ -dG	273.083	157.3 ^b	26	370	4	20	17	4
	273.083	138.9	26	370	4	20	49	4
N ² -MIE-dG	444.166	328.1 ^b	46		10		17	34
	444.166	177.1	46		10		33	12
N ⁶ -MIE-dA	428.170	177.0 ^b	71		10		35	14
	428.170	312.1	71		10		21	22
[¹⁵ N ₅]- N ² -MIE-dG	449.078	333.1 ^b	61		10		15	24
	449.078	177.1	61		10		41	12
[¹⁵ N ₅]- N ⁶ -MIE-dA	433.094	177.1 ^b	56		10		33	12
	433.094	317.1	56		10		21	18

^a Q1, quadrupole 1 (*m/z*); Q3, quadrupole 3 (*m/z*); DP, declustering potential (V); FP, focusing potential; EP, entrance potential (V); CEP, collision cell entrance potential (V); CE, collision energy (V); CXP, cell exit potential (V).

^b Transitions used as quantifier.

Table S2: Primers used for qPCR

qPCR target	Forward Primer (5'-3')	Reverse primer (5'- 3')
<i>ACTB</i>	TGGCATCCACGAAACTACC	GTGTTGGCGTACAGGTCTT
<i>ACTB hamster</i>	CAAGGCCAACCGTGAAAA	ACCAGAGGCATACAGGGACA
<i>BAX</i>	CAGAAGGCACTAATCAAG	ATCAGATGTGGTCTATAATG
<i>BCL2</i>	TTCAGAGACAGCCAGGAGAAA	AGTACCTGAACCGGCACCT
<i>c-IAP1</i>	TTCCCAGGTCCTCGTATCA	CCGGCGGGGAAAAGTTGAATA
<i>c-IAP2</i>	TCACTCCCAGACTCTTTCCA	CCCCGTGTTCTACAAGTGTC
<i>FASR</i>	AGAACTTGGAAGGCCTGCAT	CTGGTTCATCCCCATTGACT
<i>GAPDH</i>	CATGAGAAGTATGACAACAG	ATGAGTCCTTCCACGAT
<i>HSP90 hamster</i>	GCAGTACGCCTGGGAGTC	CCGTTTGGTCTTCTTTCAGG
<i>MDM2</i>	ATCTTGATGCTGGTGTA	AGGCTATAATCTTCTGAGTC
<i>NOXA</i>	ACACGGTGGACGTCCTGT	ACGAAGCACTTGGGGAAGAT
<i>p21</i>	TACATCTTCTGCCTTAGT	TCTTAGGAACCTCTCATT
<i>PUMA</i>	GACGACCTCAACGCACAGTA	CTGGGTAAGGGCAGGAGTC
<i>SULT1A1</i>	CAAAGGATGTGGCAGTTTCC	CCGACCATGAACTTCTCCAG
<i>Survivin</i>	ATGACTTGTGTGTGATGA	GTTTGTGCTATTCTGTGAA

Table S3: Antibodies used for confocal immunofluorescence microscopy

Antibody	Catalog No.	Provider
Anti-cytochrome C, monoclonal mouse	#12963	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-BAX (2D2), monoclonal mouse	#89477	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-BrdU antibody, rat monoclonal	ab6326	Abcam, Cambridge, UK
Anti-BrdU antibody, mouse monoclonal	#347580	Becton–Dickinson, UK
Anti- γ H2AX, monoclonal rabbit	ab11174	Abcam, Cambridge, UK
F(ab') ₂ -Goat-anti-Mouse IgG (H-L) Alexa Fluor 488	A-11017	Life Technologies, Darmstadt, Germany
Goat anti-Rabbit IgG (H+L) Alexa Fluor 488	A-11008	Life Technologies, Darmstadt, Germany
Donkey Cy3-coupled anti-rat	712-165-150	Jackson ImmunoResearch Europe
Donkey Alexa488-coupled anti-mouse	715-545-150	Jackson ImmunoResearch Europe

Table S4: Antibodies used for SDS-PAGE and Western blot analysis

Antibody	Catalog No.	Provider
Anti-p53 (1C12), monoclonal mouse	#2524	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-p53 (DO1), monoclonal mouse	sc-126	Santa Cruz Biotechnology, Heidelberg, Germany
Anti-p21 (C19), polyclonal rabbit	sc-397	Santa Cruz Biotechnology, Heidelberg, Germany
Anti-p21 (F-5), monoclonal mouse	sc-6246	Santa Cruz Biotechnology, Heidelberg, Germany
Anti-Hsp90 α/β , monoclonal mouse	sc-13119	Santa Cruz Biotechnology, Heidelberg, Germany
Anti-pChk1 serine 345, monoclonal rabbit	#2348T	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-pChk2 threonine 68, monoclonal rabbit	#2197T	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-cleaved Caspase 3, monoclonal rabbit	#9661	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-Caspase 8 p18, rabbit polyclonal	Sc-7890	Santa Cruz Biotechnology, Heidelberg, Germany
Anti-cleaved Caspase 9, monoclonal rabbit	#7237	Cell Signaling Technology, Danvers, Massachusetts, USA
Anti-SULT1A1, polyclonal rabbit	GTX55811	Genetex, Irvine, California, USA
Anti- γ H2AX, monoclonal rabbit	ab11174	Abcam, Cambridge, UK
Goat-anti-Mouse HRP (IgGk binding protein)	sc-516102	Santa Cruz Biotechnology, Heidelberg, Germany
Goat-anti-Rabbit-HRP	#7074S	Cell Signaling Technology, Danvers, Massachusetts, USA