

Supplementary Tables (MCT-17-0836-Soni et al.)

Supplementary Table 1: Dose Modification Factor at 10% survival (DMF₁₀) in indicated cell lines:

Cell line	Inhibitor	Concentration	Duration	DMF ₁₀ Values	Associated Figure
CHO	BMN673	50nM	Cont.*	2.2	1A
CHO	BMN673	50nM	1h	1.8	2A
CHO	Olaparib	3 μM	Cont.	1.6	1A
CHO	AG14361	400nM	Cont.	1.6	1A
CHO	PJ34	5μM	Cont.	1.2	1A
CHO	ME0328	3μM	Cont.	1.1	1D
CHO	UPF1069	1μM	Cont.	1.0	1D
BT12	BMN673	50nM	Cont.	2.2	2B, 2C
BT12	BMN673	50nM	1h	1.0	2B
BT12	PJ34	5 μM	Cont.	0.83	2C
CHLA9	BMN673	50nM	Cont.	2.0	2D
CHLA9	BMN673	50nM	1h	1.2	2D
CHLA9	PJ34	5μM	Cont.	1.0	2D
A549	BMN673	50nM	1h	1.3	3C
HCT116	BMN673	50nM	1h	1.5	3B
U2OS	BMN673	50nM	1h	1.4	3A
82-6hTert	BMN673	50nM	1h	1.1	3D
RPE-1	BMN673	50nM	1h	1.1	3E

Table S1: Dose Modification Factor at 10% survival (DMF₁₀) calculated for various inhibitors in different cell lines tested. Cells were either treated for 1 hour or continuously with indicated inhibitors. Associated figure numbers are also indicated. *Continuous inhibitor treatment.

Supplementary Table 2: Primary and Secondary Antibodies

Antibody	Species	Dilution	Source
γ -H2AX Ser139	Mouse monoclonal (3F2)	1:300	Abcam
Rad51	Rabbit polyclonal (Ab-1)	1:500	Merck Millipore
53BP1	Rabbit polyclonal (H300)	1:300	Santa Cruz Biotechnology
RPA70B	Mouse monoclonal	1:200	Custom made and purified from mouse hybirdomas
Anti-Poly(ADP- ribose)	Mouse monoclonal (10H)	1:200	Enzo Life Sciences
AlexaFluor®488	Goat anti-mouse	1:400	Life Tech. Corporation
AlexaFluor®488	Goat anti-Rabbit	1:400	Life Tech. Corporation
AlexaFluor®568	Goat anti-mouse	1:400	Life Tech. Corporation
AlexaFluor®568	Goat anti-mouse	1:400	Life Tech. Corporation

Supplementary Table 3: Inhibitor induced cytotoxicity in CHO cells

Cell line	Inhibitor	Concentration	Duration	Plating Efficiency \pm SD
CHO	None	-	-	0.9 \pm 0.07
CHO	BMN673	10nM	Cont.*	0.8 \pm 0.05
CHO	BMN673	20nM	Cont.	0.8 \pm 0.08
CHO	BMN673	50nM	Cont.	0.7 \pm 0.05
CHO	BMN673	100nM	Cont.	0.6 \pm 0.04
CHO	BMN673	200nM	Cont.	0.5 \pm 0.13
CHO	Olaparib	3 μ M	Cont.	0.9 \pm 0.08
CHO	AG14361	400nM	Cont.	0.8 \pm 0.03
CHO	PJ34	5 μ M	Cont.	0.9 \pm 0.03
CHO	ME0328	3 μ M	Cont.	0.9 \pm 0.05
CHO	UPF1069	1 μ M	Cont.	0.9 \pm 0.05

Table S3: cytotoxicity of different inhibitors in un-irradiated CHO cells. *Continuous inhibitor treatment.