

Silmitasertib (CX-4945) Disrupts ER α /HSP90 Interaction and Drives Proteolysis through the Disruption of CK2 β Function in Breast Cancer Cells

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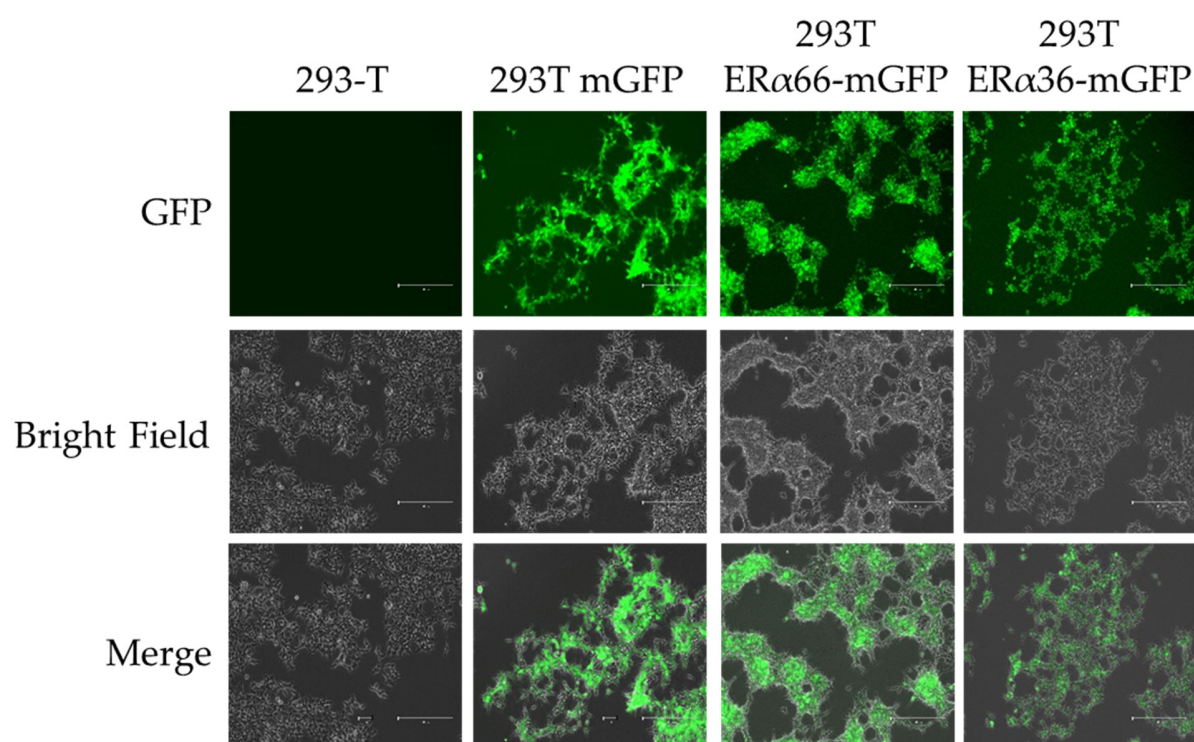


Figure S1. Expression of GFP in 293T cells transfected with mGFP, ER α 66-mGFP, or ER α 36-mGFP.

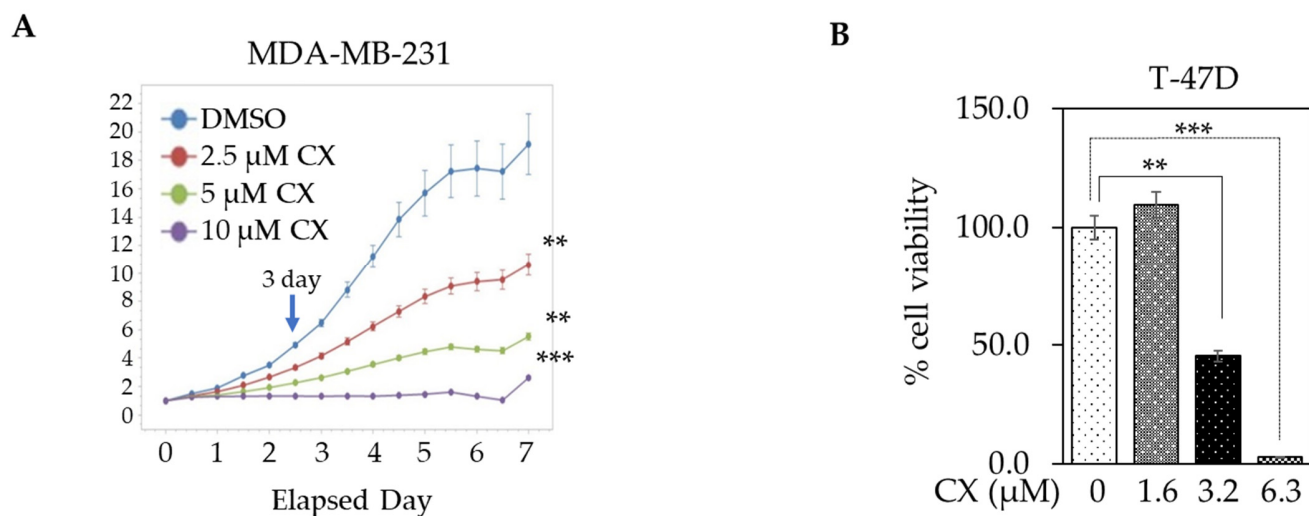


Figure S2. Proliferation analysis of the cell lines. (A) Cell confluence of MDA-MB-231 was measured growing the cells in IncuCyte. Cells were scanned every 12-hour during the times indicated. (B) Proliferation of the T-47D was measured by the Alamar blue assay after 3 day. The data is presented as percent cell confluence \pm S.D. Statistically significant results are marked with ** $p \leq 0.01$, *** $p \leq 0.005$, and compared with the control group.

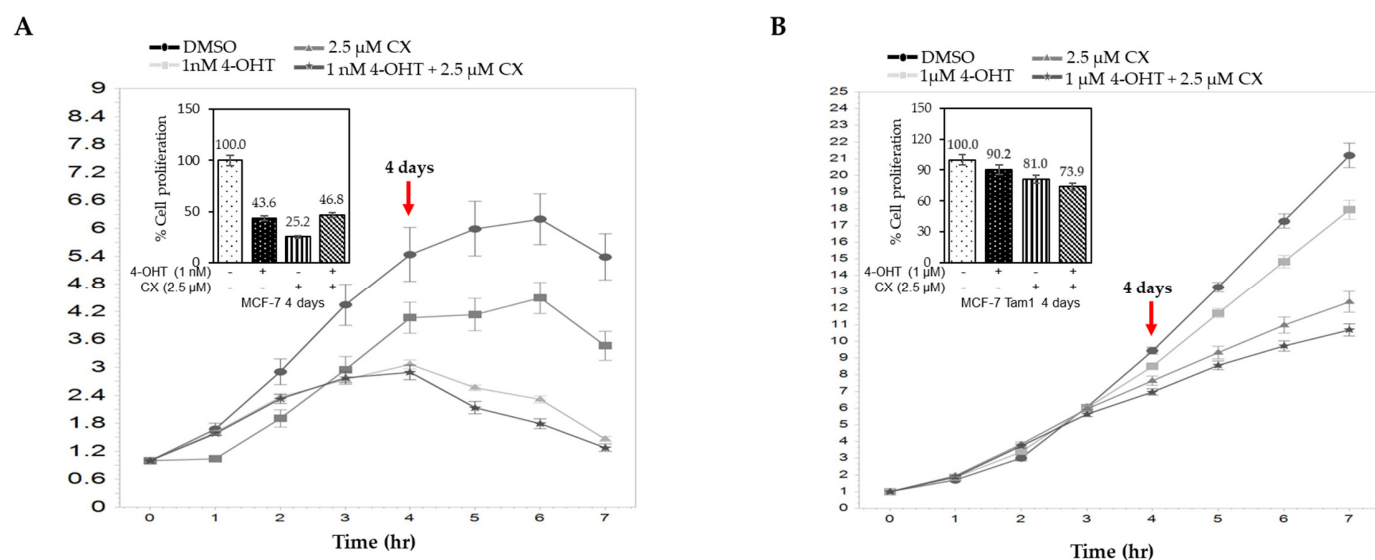


Figure S3. The effects of 4-OHT, CX, and drug combination on cancer cell growth. Live cell imaging of cell confluence with exposure of MCF-7 (A) and MCF-7 Tam1 cells (B) with CX, 4-OHT and their combination. MCF-7 and MCF-7 Tam1 were exposed to single and combination of drugs for up to 7 days. The bar graph was the represented cell proliferation of BCa treated with 4-OHT, CX, or their combination for 4 days (inset). The values shown are the mean \pm SD of two independent experiments performed in triplicate. The surviving fraction is the percentage of viable cells in comparison to the control.

Figure 2B

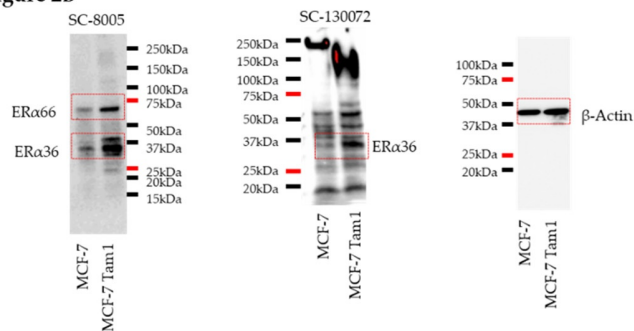


Figure 2C

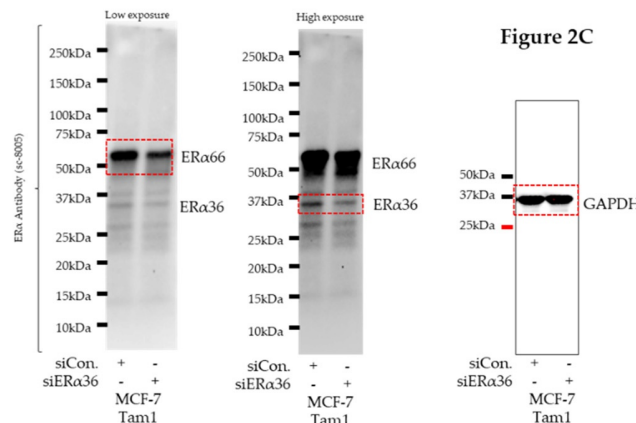


Figure 2E

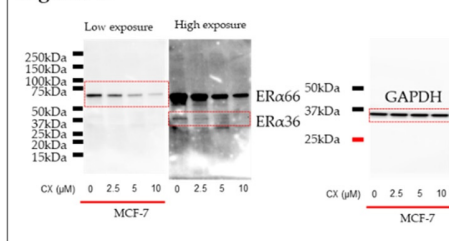


Figure 2F

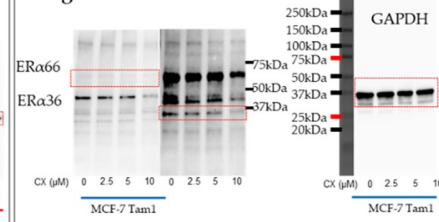


Figure 2I

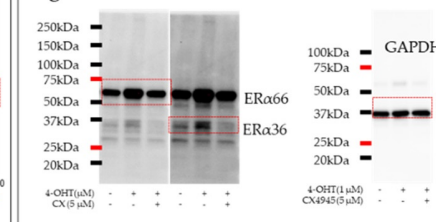


Figure 2G

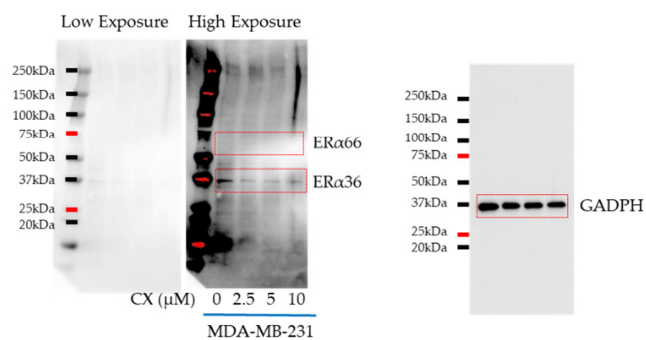
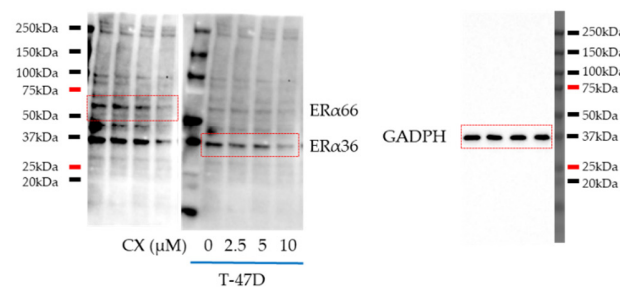


Figure 2H



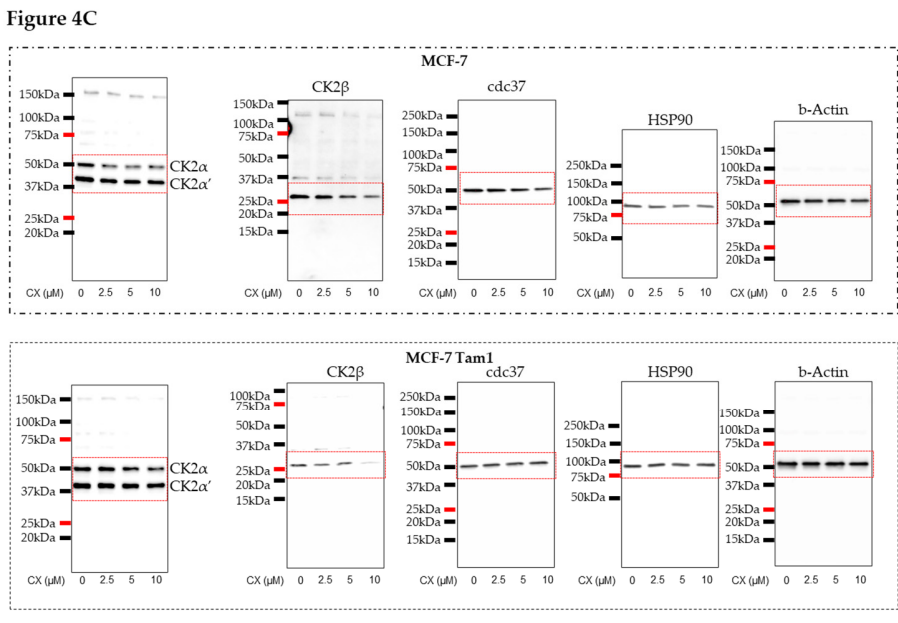
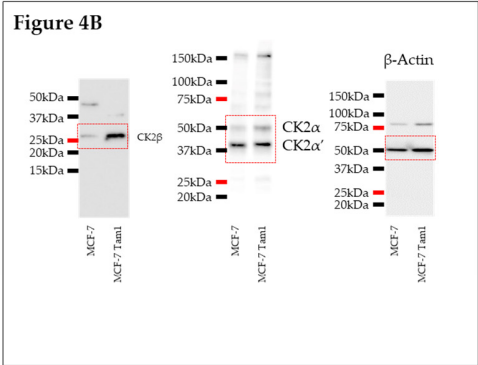
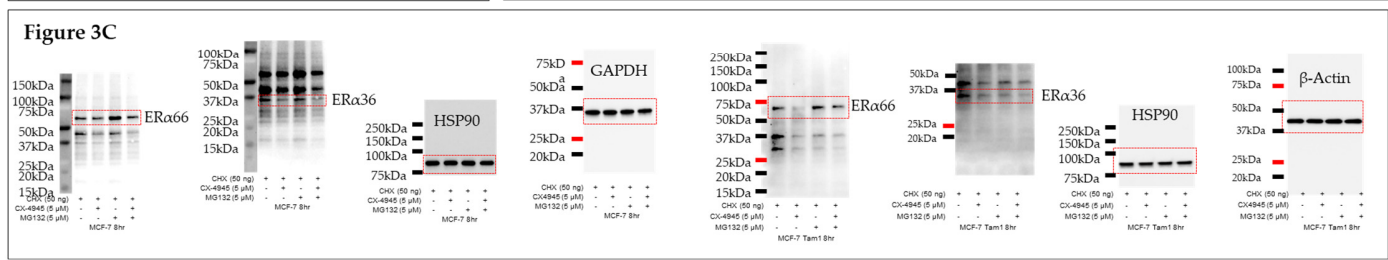
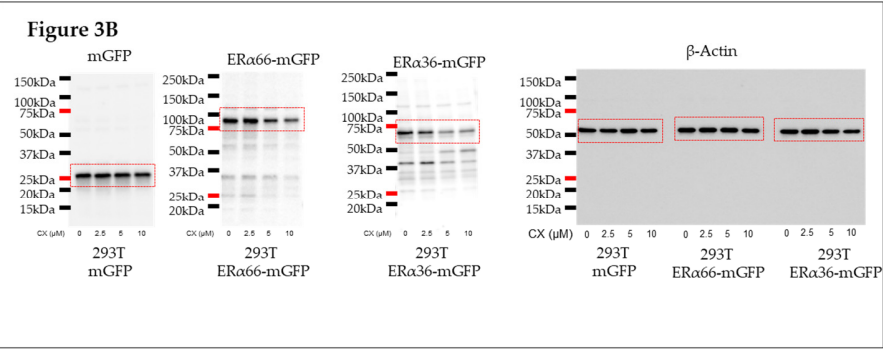
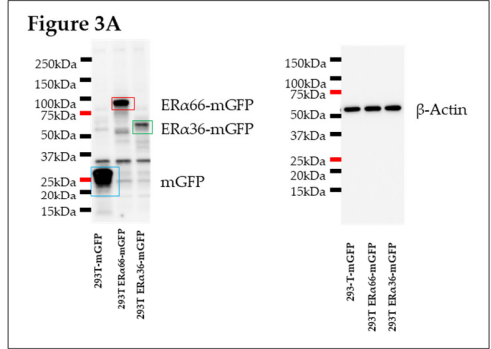


Figure 4E

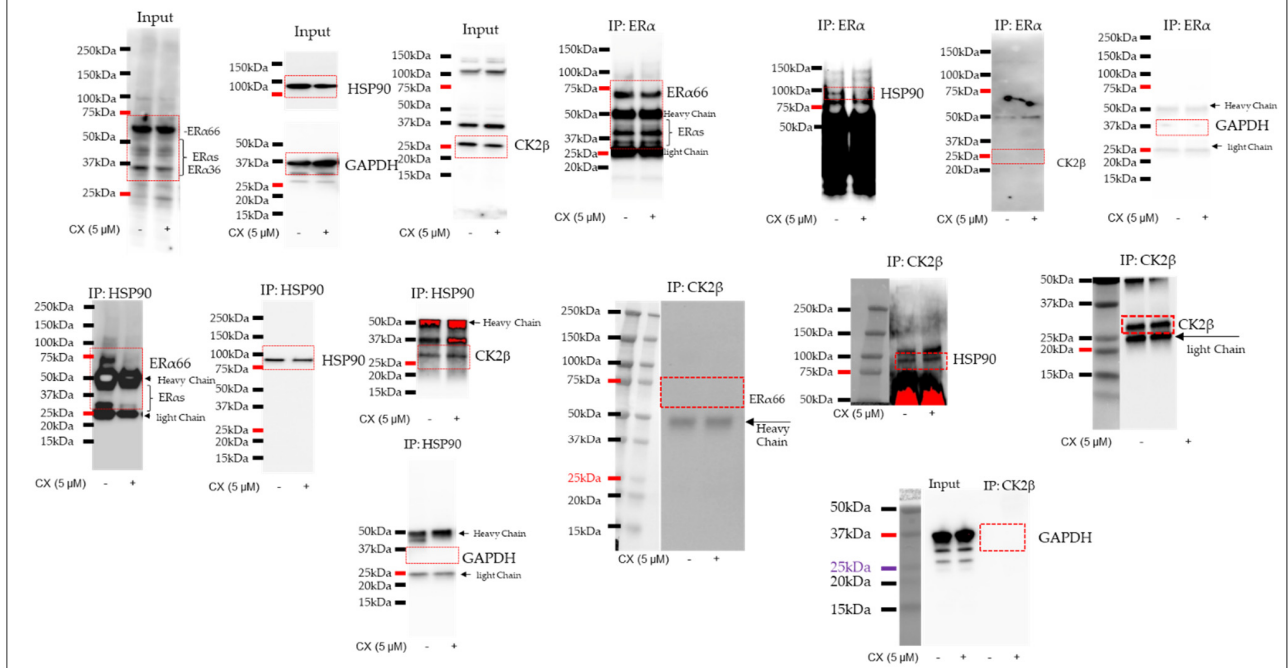


Figure 4G

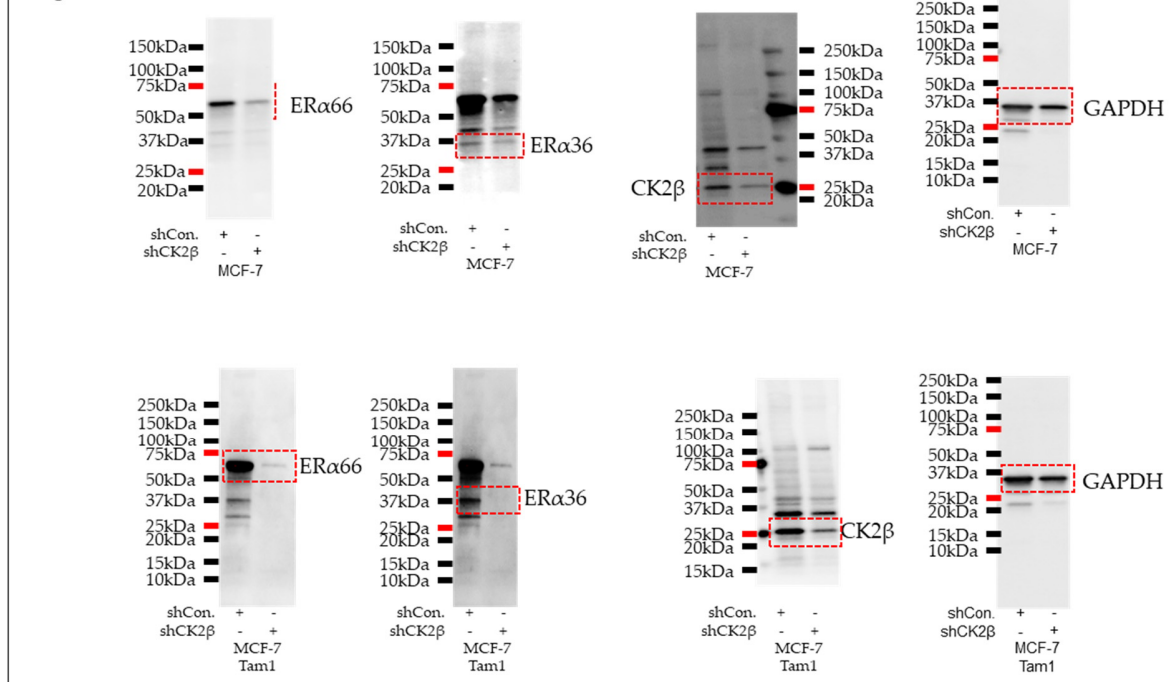


Figure S4. Information of Full blot.

Table S1. Gene, primer orientation, primer sequence (5' to 3'), and National Center for Biotechnology Information (NCBI) accession number and sequence for primers used in real-time quantitative PCR assays.

Primer Name		Sequence
CSNK2B (CK2 β)	F	TGAGCAGGTCCCTCACTACC
	R	GTAGCGGGCGTGGATCAAT
ER α 66	F	GGTGCCCTACTACCTGGAGA
	R	TCTGAATTTGGCCTGTAGAATG
ER α 36	F	GACAGGAACCAGGGAAAA
	R	TCTACATGTGAGATAACCAGA
GAPDH	F	GACAGTCAGCCGCATCTTCT
	R	TTAAAAGCAGCCCTGGTGAC