

Supplementary Materials

FIGURE S1: IXA vs BTZ inhibition profile of proteasome subunit activity in CEM (ALL) cells and their low/high BTZ-resistant sublines. $\beta 5$, $\beta 5i$, $\beta 1$, and $\beta 1i$ -associated catalytic activity in cell extracts of CEM/WT, CEM/BTZ7 (low level BTZ resistance), and CEM/BTZ/BTZ200 (high level BTZ resistance) was assessed in the absence (control) or presence of increasing concentrations IXA or BTZ. Results depicted represent the absolute mean of the slopes \pm SD of three separate experiments.

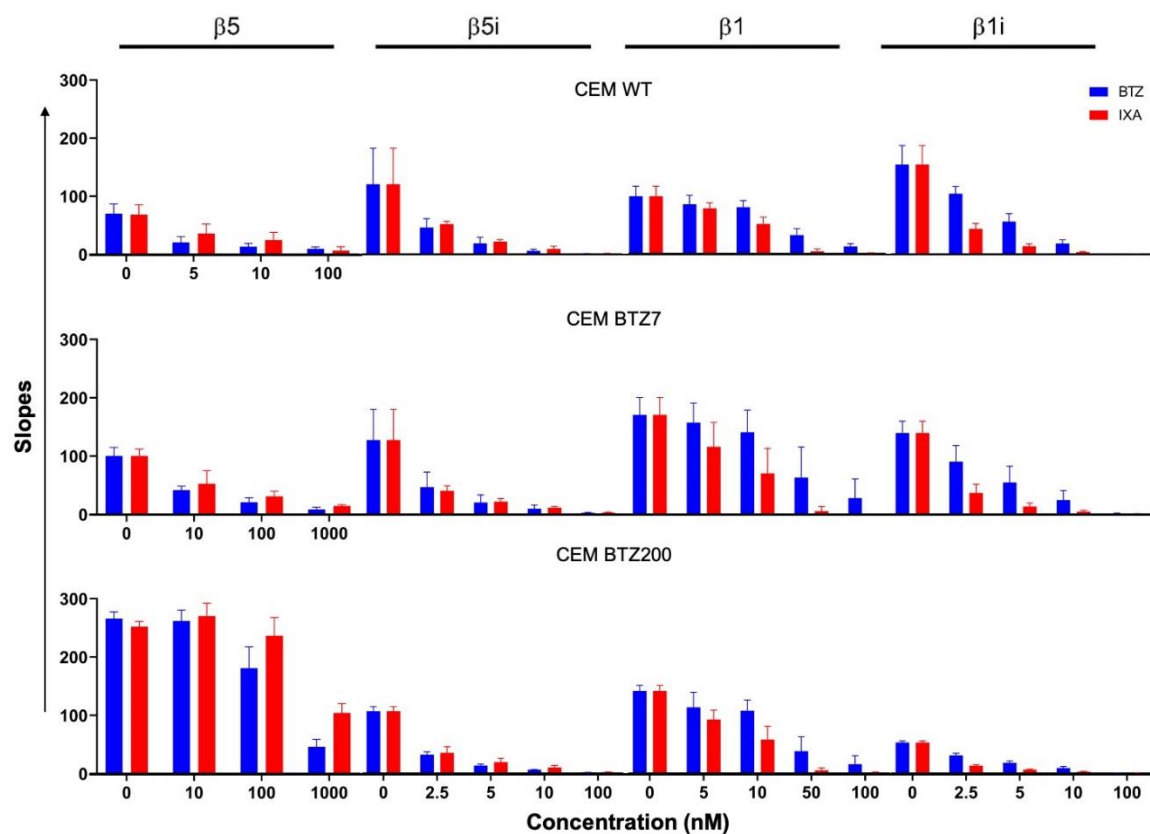


TABLE S1: Patients' characteristics

	ALL	AML
Age, yrs mean \pm SD	5.8 \pm 4.4	5.7 \pm 5.5
Female	8	4
Male	7	5
Blast %	94 (range 86-98)	79 (range 30-93)
Subtype		
B-cell	8	
T-cell	4	
Unknown	3	1
FAB M1		1
FAB M2		3
FAB M3		-
FAB M4		-
FAB M5		4
FAB M6		-

Table S2. Growth inhibitory effects of single drug IXA, DEX, and Ara-C and their concentration ranges used for the combination experiments.

	IC50 IXA	Concentration range IXA	IC50 DEX	Concentration range DEX	IC50 Ara-C	Concentration range Ara-C
<i>T-ALL cells</i>						
CEM/WT	0.018 \pm 0.0	3.05E-05 – 0.0625	0.016 \pm 0.0	3.05E-05 – 0.0625	-	-
CEM/BTZ7	0.115 \pm 0.4	0.0005 – 1.000	0.011 \pm 0.0	3.05E-05 – 0.0625	-	-
CEM/BTZ200	2.261 \pm 1.1	0.008 – 16.000	0.011 \pm 0.0	3.05E-05 – 0.0625	-	-
<i>AML cells</i>						
THP-1/WT	0.018 \pm 0.0	3.05E-05 – 0.0625	-	-	1.457 \pm 0.5	0.005 – 10.000
THP-1/BTZ7	0.538 \pm 0.1	0.0005 – 1.000	-	-	0.945 \pm 0.3	0.005 – 10.000
THP-1/BTZ200	4.787 \pm 1.2	0.008 – 16.000	-	-	0.380 \pm 0.1	0.001 – 2.500

Results are expressed as cell growth relative to control cells incubated without drug, set at 100%. Mean \pm SD (in μ M) of three separate experiments performed in triplicate. Concentration ranges depict the lowest and highest concentrations of total 12 concentrations (μ M)