

Table SI. One-way ANOVA reveals significant differences between TP53-mutated and TP53 wild-type human leukaemia cell lines.

Cell lines (A) vs. (B)	logLC ₅₀ (A) (nM)	logLC ₅₀ (B) (nM)	Mean difference	Significance	P-value
RS4;11 vs. NALM-19	2.222	2.386	-0.1642	No	0.4579
RS4;11 vs. MV4;11	2.222	2.430	-0.2078	No	0.1376
RS4;11 vs. RCH-ACV	2.222	2.476	-0.2535	Yes	0.0260
RS4;11 vs. REH	2.222	2.652	-0.4298	Yes	0.0023
RS4;11 vs. Jurkat	2.222	2.719	-0.4968	Yes	<0.0001
RS4;11 vs. THP-1	2.222	2.833	-0.6107	Yes	<0.0001
RS4;11 vs. U-937	2.222	2.749	-0.5269	Yes	<0.0001
NALM-19 vs. MV4;11	2.386	2.430	-0.04359	No	0.4579
NALM-19 vs. RCH-ACV	2.386	2.476	-0.08931	No	0.1376
NALM-19 vs. REH	2.386	2.652	-0.2656	Yes	0.0209
NALM-19 vs. Jurkat	2.386	2.719	-0.3326	Yes	0.0015
NALM-19 vs. THP-1	2.386	2.833	-0.4465	Yes	<0.0001
NALM-19 vs. U-937	2.386	2.749	-0.3627	Yes	0.0004
MV4;11 vs. RCH-ACV	2.430	2.476	-0.04572	No	0.4579
MV4;11 vs. REH	2.430	2.652	-0.2220	No	0.1171
MV4;11 vs. Jurkat	2.430	2.719	-0.2890	Yes	0.0150
MV4;11 vs. THP-1	2.430	2.833	-0.4029	Yes	0.0004
MV4;11 vs. U-937	2.430	2.749	-0.3191	Yes	0.0047
RCH-ACV vs. REH	2.476	2.652	-0.1763	No	0.4095
RCH-ACV vs. Jurkat	2.476	2.719	-0.2433	No	0.0909
RCH-ACV vs. THP-1	2.476	2.833	-0.3572	Yes	0.0047
RCH-ACV vs. U-937	2.476	2.749	-0.2734	Yes	0.0373
REH vs. Jurkat	2.652	2.719	-0.06705	No	0.3865
REH vs. THP-1	2.652	2.833	-0.1809	Yes	0.0455
REH vs. U-937	2.652	2.749	-0.09715	No	0.2085
Jurkat vs. THP-1	2.719	2.833	-0.1139	No	0.2568
Jurkat vs. U-937	2.719	2.749	-0.03010	No	0.6952
THP-1 vs. U-	2.833	2.749	0.08377	No	0.4579

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Human acute leukaemia cell lines were exposed to increasing doses of CBL0137 in duplicate and apoptosis was measured by Annexin-V/7-AAD staining after 72 h. Mean CBL0137 logLC₅₀ values were calculated from 3 independent biological replicates. Kruskal-Wallis tests with multiple comparisons tests were performed to compare mean logLC₅₀ values between each cell line tested. Comparisons between TP53-wild-type and TP53-mutated cell lines are highlighted in yellow.

Table SII. LogLC₅₀ and LC₅₀ for CBL0137 in acute leukaemia cell lines.

Cell line	logLC ₅₀ (nM)	LC ₅₀ (nM)
RS4;11	2.22	166.0
RCH-ACV	2.48	302.0
NALM-19	2.39	245.5
MV4;11	2.43	269.2
REH	2.65	446.7
Jurkat	2.72	524.8
U-937	2.75	562.3
THP-1	2.83	676.1
RS4;11 Cas9	2.32	208.9
RS4;11 <i>TP53</i> ^{MUT} #1	2.59	389.1
RS4;11 <i>TP53</i> ^{MUT} #2	2.62	416.9

Human acute leukaemia cell lines were exposed to increasing doses of CBL0137 in duplicate and apoptosis was measured by Annexin-V/7-AAD staining after 72 h. Mean CBL0137 logLC₅₀ values were calculated from 3 independent biological replicates. LogLC₅₀ and LC₅₀ values were extrapolated using non-linear regression analysis.