

Supplementary Table 1 The AUC results of LoVo cell counting

AUC	0:1	1:1	1:10	1:100	1:1000
Baseline	0	0	0	0	0
First X	0	0	0	0	0
Last X	72.00	72.00	72.00	72.00	72.00
Peak X	72.00	24.00	24.00	48.00	48.00
Peak Y	2170000	554667	8880000	1426667	1460000
Area	72384000	25428000	320136000	55480000	58264000
SD	9185692	1970084	13754635	6945157	6294592
95% CI	54380374 90387626	to 21566706 to 29289294	to 293177411 to 347094589	to 41867743 to 69092257	to 45926826 to 70601174
% Area	100.0	100.0	100.0	100.0	100.0
R squared	0.8687	0.006601	0.01190	0.6421	0.6387

AUC, Area Under Curve; SD, Standard Error; CI, Confidence Interval.

Supplementary Table 2 The ANOVA analysis results of LoVo cell counting

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	% of total variation	Significant ?
Time x Concentration ratio of supernatant	1.049e+014	12	8744007686111	F (12, 30) = 89.28	<0.0001	46.57	Yes
Time	29914721933333	3	9971573977778	F (1.865, 18.65) = 101.8	<0.0001	13.28	Yes
Concentration ratio of supernatant	87209094166667	4	21802273541667	F (4, 10) = 701.3	<0.0001	38.71	Yes

SS, Sum of Squares; DF: Degrees of Freedom; MS: Mean Square; F: F-statistic; DFn: Degrees of Freedom numerator; DFd: Degrees of Freedom denominator.

Supplementary Table 3 The ANOVA analysis results of OD values in LoVo cells assessed by the CCK8 assay

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	% of total variation	Significant?
Time x Concentration ratio of supernatant	13.15	12	1.096	F (12, 30) = 42.81	<0.0001	35.05	Yes
Time	13.61	3	4.537	F (1.717, 17.17) = 177.2	<0.0001	36.28	Yes
Concentration ratio of supernatant	9.651	4	2.413	F (4, 10) = 71.76	<0.0001	25.72	Yes

OD, optical density; SS, Sum of Squares; DF: Degrees of Freedom; MS: Mean Square; F: F-statistic; DFn: Degrees of Freedom numerator; DFd: Degrees of Freedom denominator.

Supplementary Table 4 The AUC results of relative OD values in LoVo cells assessed by the CCK8 assay

AUC	0:1	1:1	1:10	1:100	1:1000
Baseline	0	0	0	0	0
First X	0	0	0	0	0
Last X	72.00	72.00	72.00	72.00	72.00
Peak X	48.00	24.00	24.00	48.00	24.00
Peak Y	1.086	2.219	4.000	1.740	1.072
Area	74.54	105.4	173.1	99.26	66.09
SD	1.643	1.873	3.605	7.645	6.295
95% CI	71.32 to 77.76	101.8 to 109.1	166.0 to 180.2	84.27 to 114.2	53.76 to 78.43
%Area	100.0	100.0	100.0	100.0	100.0
First X	0	0	0	0	0

AUC, Area Under Curve; OD, optical density; SD, Standard Error; CI, Confidence Interval.

Supplementary Table 5 The AUC results of RKO cell counting.

AUC	0:1	1:1	1:10	1:100	1:1000
Baseline	0	0	0	0	0
First X	0	0	0	0	0
Last X	72.00	72.00	72.00	72.00	72.00
Peak X	72.00	24.00	24.00	24.00	24.00
Peak Y	2977839	2928859	6018083	4433684	3232785
Area	129605876	101314300	248723284	170536608	147018740
SD	7625231	9213955	11553915	14472555	12933142
95% CI	114660698 to 144551054	83255280 to 119373320	226078026 to 271368542	142170921 to 198902295	121670248 to 172367232
% Area	100.0	100.0	100.0	100.0	100.0

AUC, Area Under Curve; SD, Standard Error; CI, Confidence Interval.

Supplementary Table 6 The ANOVA analysis results of RKO cell counting

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	% of total variation	Significant?
Time x Value of alive cells	3112131084853	12	259344257071	F (12, 30) = 22.36	<0.0001	21.07	Yes
Time	8950584895486	3	298352829849	F (1.758, 17.58) = 257.3	<0.0001	60.59	Yes
Value of alive cells	2220887739938	4	555221934984	F (4, 10) = 39.25	<0.0001	15.03	Yes

SS, Sum of Squares; DF: Degrees of Freedom; MS: Mean Square; F: F-statistic; DFn: Degrees of Freedom numerator; DFd: Degrees of Freedom denominator.

Supplementary Table 7 The ANOVA analysis results of OD values in RKO cells assessed by the CCK8 assay

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	% of total variation	Significant?
Time x Concentration ratio of supernatant	11.44	12	0.9534	F (12, 30) = 56.38	<0.0001	14.11	Yes
Time	57.29	3	19.10	F (1.135, 11.35) = 1129	<0.0001	70.64	Yes
Concentration ratio of supernatant	11.61	4	2.902	F (4, 10) = 113.3	<0.0001	14.31	Yes

OD, optical density; SS, Sum of Squares; DF: Degrees of Freedom; MS: Mean Square; F: F-statistic; DFn: Degrees of Freedom numerator; DFd: Degrees of Freedom denominator.

Supplementary Table 8 The AUC results of relative OD values in RKO cells assessed by the CCK8 assay

AUC	0:1	1:1	1:10	1:100	1:1000
Baseline	0	0	0	0	0
First X	0	0	0	0	0
Last X	72.00	72.00	72.00	72.00	72.00
Peak X	48.00	48.00	24.00	48.00	48.00
Peak Y	2.086	2.360	4.000	2.740	2.387
Area	93.85	118.9	198.9	112.9	99.29
SD	1.370	1.851	3.560	7.613	5.703
95% CI	91.17	to 115.2	to 191.9	to 97.95	to 88.11
	96.54	122.5	205.9	127.8	110.5
% Area	100.0	100.0	100.0	100.0	100.0
First X	0	0	0	0	0

AUC, Area Under Curve; OD, optical density; SD, Standard Error; CI, Confidence Interval.