

CompuSyn Report

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin48h.cse
Description: 5flurouracil + cinaropecrin on kyse30 cell line, after 48h treatment analyzed by N. Goftari
Drug: 5-flurouracil (5-fu) [uM]
Drug: cinaropecrin (cin) [uM]
Drug Combo: 5-flurouracil + cinaropecrin (fu+cin) (5-fu+cin [4.438:1])

Data for Drug: 5-fu [uM]

Dose	Effect
64.11	0.838
128.15	0.722
192.18	0.587
256.22	0.34
320.26	0.304

5 data points entered.

X-int: 2.30110

Y-int: 3.70663 +/- 0.50761

m: -1.6108 +/- 0.22700

Dm: 200.033

r: -0.9715

Data for Drug: cin [uM]

Dose	Effect
14.43	0.969
28.87	0.72
43.3	0.482
57.74	0.399
72.17	0.367

5 data points entered.

X-int: 1.69059

Y-int: 4.27621 +/- 0.56751

m: -2.5294 +/- 0.35593

Dm: 49.0440

r: -0.9716

Data for Drug Combo: fu+cin (5-fu+cin [4.438:1])

Dose A	Effect
64.1100+	0.262
128.150+	0.147
192.180+	0.077
256.220+	0.059
320.260+	0.023

5 data points entered.

X-int: 1.65579

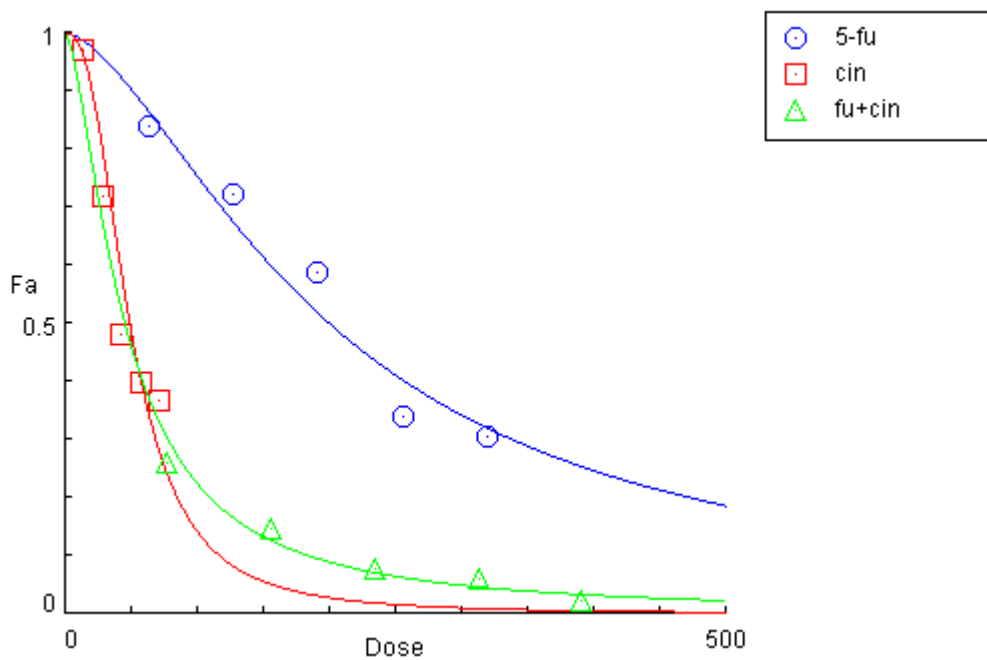
Y-int: 2.59029 +/- 0.55814

m: -1.5644 +/- 0.24018

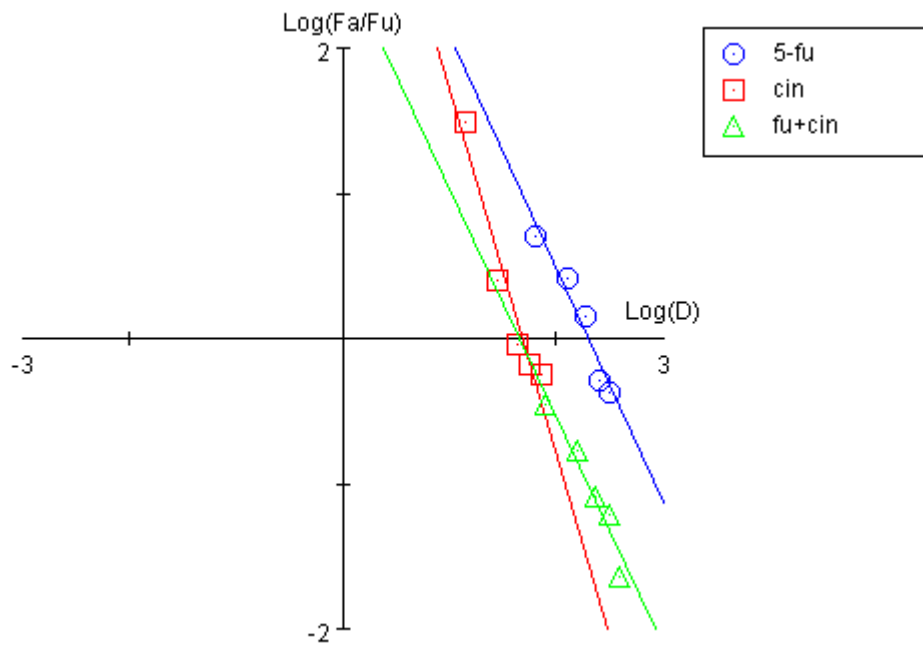
Dm: 45.2679

r: -0.9664

Dose-Effect Curve



Median-Effect Plot



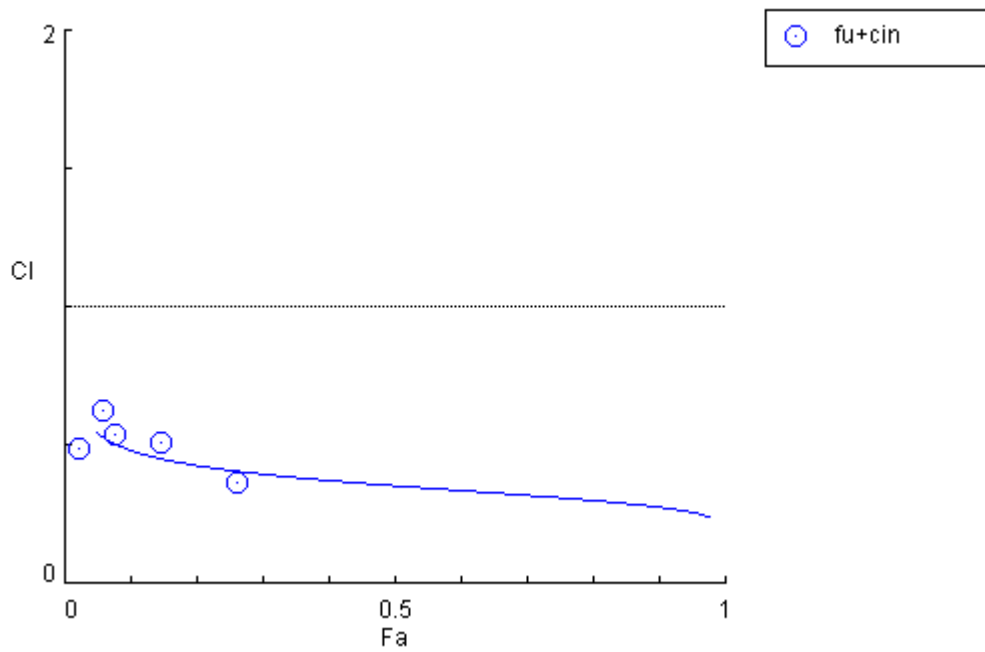
CI Data for Drug Combo: fu+cin (5-fu+cin [4.438:1])

Fa	CI Value	Total Dose
0.05	0.54302	297.309
0.1	0.48238	184.404
0.15	0.44980	137.195
0.2	0.42748	109.811
0.25	0.41035	91.3651
0.3	0.39629	77.8058
0.35	0.38420	67.2425
0.4	0.37345	58.6615
0.45	0.36362	51.4635
0.5	0.35442	45.2679
0.55	0.34563	39.8181
0.6	0.33706	34.9323
0.65	0.32854	30.4744
0.7	0.31987	26.3371
0.75	0.31082	22.4285
0.8	0.30107	18.6610
0.85	0.29006	14.9362
0.9	0.27668	11.1124
0.95	0.25771	6.89242
0.97	0.24594	4.90654

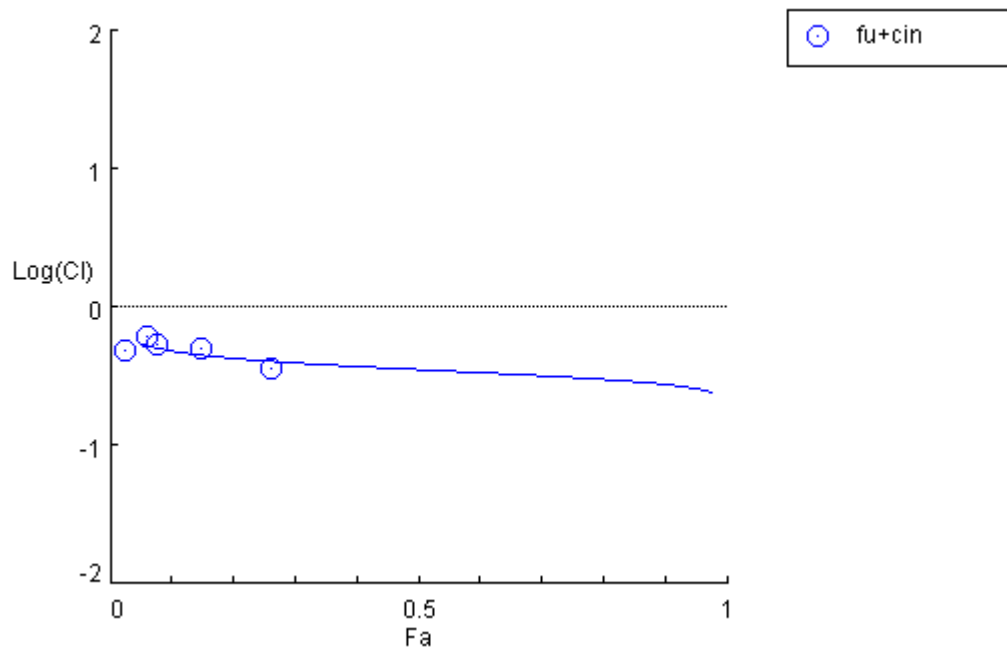
CI values for actual experimental points:

Total Dose	Fa	CI Value
78.5557	0.262	0.36409
157.026	0.147	0.50885
235.483	0.077	0.53629
313.953	0.059	0.62339
392.423	0.023	0.49040

Combination Index Plot



Logarithmic Combination Index Plot



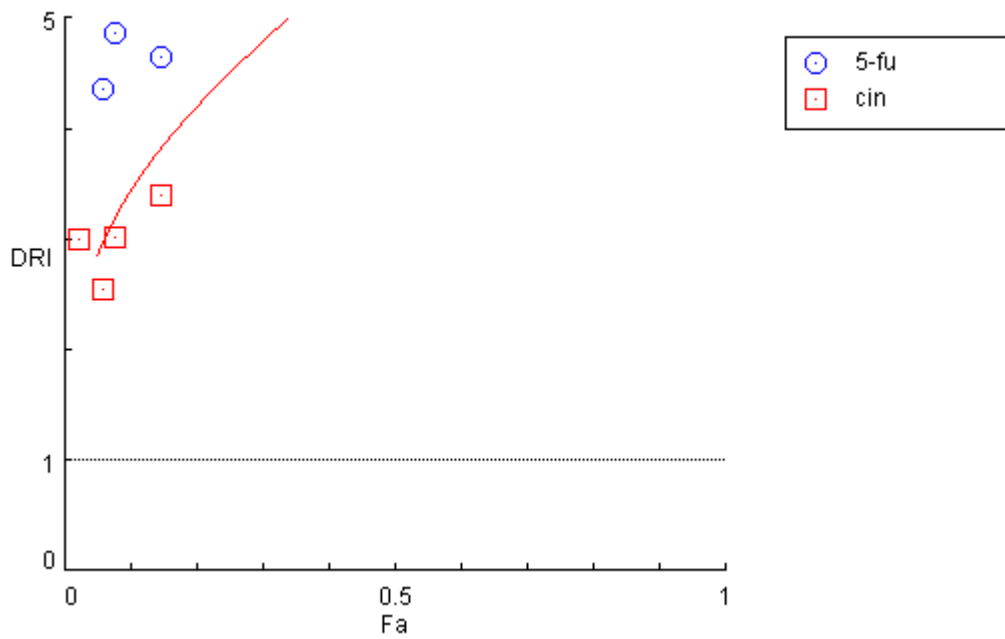
DRI Data for Drug Combo: fu+cin (5-fu+cin [4.438:1])

Fa	Dose 5-fu	Dose cin	DRI 5-fu	DRI cin
0.05	1244.40	157.086	5.12865	2.87322
0.1	782.530	116.908	5.19975	3.44756
0.15	587.181	97.3670	5.24425	3.85932
0.2	473.003	84.8415	5.27802	4.20148
0.25	395.641	75.7207	5.30607	4.50685
0.3	338.488	68.5590	5.33069	4.79172
0.35	293.766	62.6431	5.35316	5.06604
0.4	257.288	57.5709	5.37426	5.33691
0.45	226.571	53.0934	5.39458	5.61023
0.5	200.033	49.0440	5.41456	5.89163
0.55	176.603	45.3035	5.43462	6.18714
0.6	155.519	41.7800	5.45516	6.50401
0.65	136.207	38.3971	5.47667	6.85176
0.7	118.211	35.0839	5.49975	7.24401
0.75	101.135	31.7656	5.52527	7.70189
0.8	84.5938	28.3507	5.55464	8.26167
0.85	68.1445	24.7036	5.59040	8.99414
0.9	51.1330	20.5745	5.63825	10.0684
0.95	32.1546	15.3121	5.71641	12.0810
0.97	23.1154	12.4094	5.77268	13.7535

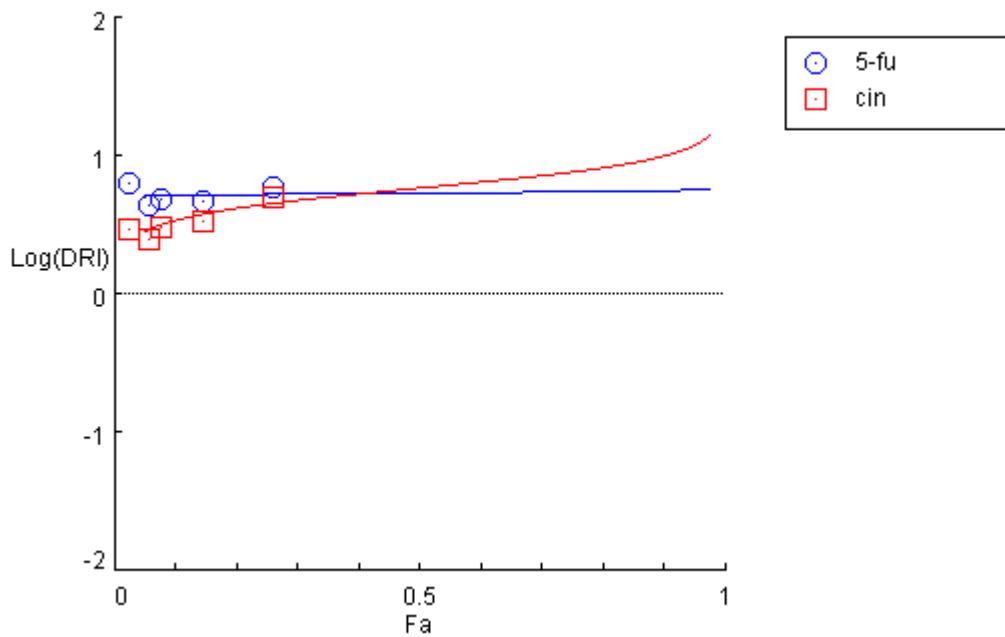
DRI values calculated at experimental points

Fa	Dose 5-fu	Dose cin	DRI 5-fu	DRI cin
0.262	380.463	73.8576	5.93453	5.11278
0.147	595.893	98.2846	4.64996	3.40371
0.077	934.914	130.934	4.86479	3.02364
0.059	1116.27	146.583	4.35668	2.53898
0.023	2050.58	215.912	6.40287	2.99200

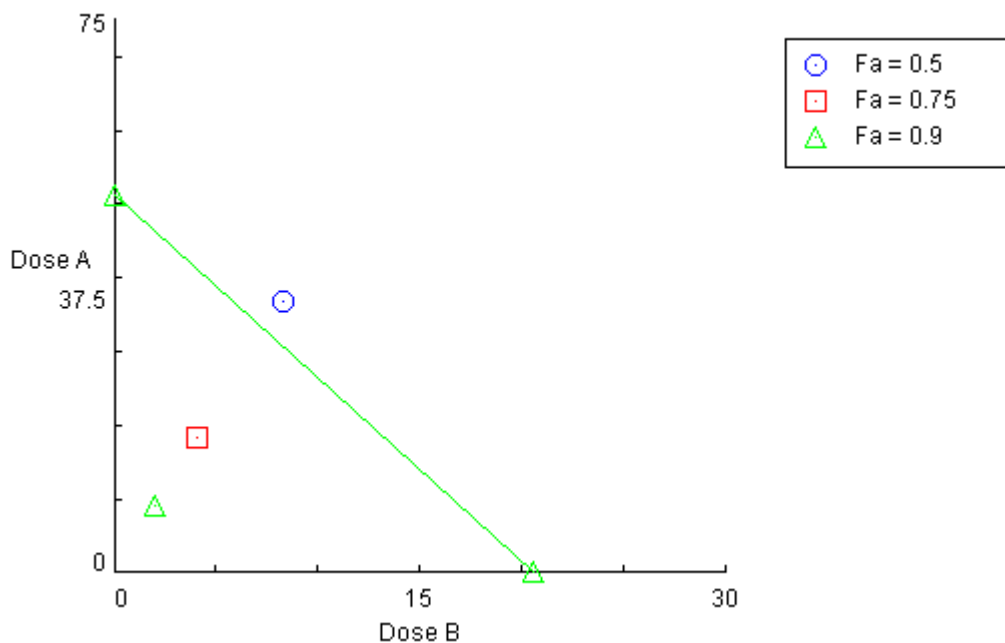
DRI Plot for Combo: fu+cin (5-fu+cin [4.438:1])



Log(DRI) Plot for Combo: fu+cin (5-fu+cin [4.438:1])



Isobologram for Combo: fu+cin (5-fu+cin [4.438:1])



Summary Table

Experiment Name: kh. nasirzadeh
Date: 2017
File Name: C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin48h.cse
Description: 5flurouracill + cinaropecrin on kyse30 cell line, after 48h treatment

analyzed by N. Goftari

Drug: 5-flurouracil (5-fu) [uM]

Drug: cinaropecrin (cin) [uM]

Drug Combo: 5-flurouracil + cinaropecrin (fu+cin) (5-fu+cin [4.438:1])

Drug/Combo	Dm	m	r
5-fu	200.033	-1.6108	-0.9715
cin	49.0440	-2.5294	-0.9716
fu+cin	45.2679	-1.5644	-0.9664

CI values at:

Combo	ED50	ED75	ED90	ED95
fu+cin	0.35442	0.31082	0.27668	0.25771

Data for Fa = 0.5

Drug/Combo	CI value	Dose 5-fu	Dose cin
5-fu		200.033	
cin			49.0440
fu+cin	0.35442	36.9435	8.32436

Data for Fa = 0.75

Drug/Combo	CI value	Dose 5-fu	Dose cin
5-fu		101.135	
cin			31.7656
fu+cin	0.31082	18.3041	4.12440

Data for Fa = 0.9

Drug/Combo	CI value	Dose 5-fu	Dose cin
5-fu		51.1330	
cin			20.5745
fu+cin	0.27668	9.06896	2.04348

Data for Fa = 0.95

Drug/Combo	CI value	Dose 5-fu	Dose cin
5-fu		32.1546	
cin			15.3121
fu+cin	0.25771	5.62497	1.26746

Data for Fa = 0.97

Drug/Combo	CI value	Dose 5-fu	Dose cin
5-fu		23.1154	
cin			12.4094

Drug/Combo	CI value	Dose 5-fu	Dose cin
fu+cin	0.24594	4.00427	0.90227