

# CompuSyn Report

**Experiment Name:** kh. nasirzadeh  
**Date:** 2017  
**File Name:** C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin.cse  
**Description:** 5flurouracil + cinaroprecrin on kyse30 cell line, after 24h treatment analyzed by N. Goftari  
**Drug:** 5-flurouracil (5-fu) [uM]  
**Drug:** cinaroprecrin (cin) [uM]  
**Drug Combo:** 5-flurouracil + cinaroprecrin (fu+cin) (5-fu+cin [8.5:1])

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Data for Drug: 5-fu [uM]

Dose	Effect
369.0	0.776
492.0	0.647
615.0	0.451
738.0	0.399
861.0	0.404

5 data points entered.

**X-int:** 2.80555

**Y-int:** 5.87939 +/- 0.94424

**m:** -2.0956 +/- 0.34048

**Dm:** 639.076

**r:** -0.9626

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Data for Drug: cin [uM]

Dose	Effect
43.3	0.848
57.74	0.706
72.17	0.456
86.61	0.42
101.04	0.335

5 data points entered.

**X-int:** 1.88180

**Y-int:** 5.47134 +/- 0.60157

**m:** -2.9075 +/- 0.32619

**Dm:** 76.1734

**r:** -0.9816

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Data for Drug Combo: fu+cin (5-fu+cin [8.5:1])

Dose A	Effect
368.900+	0.172
490.790+	0.131
615.000+	0.123
738.000+	0.122
861.000+	0.09

5 data points entered.

**X-int:** 1.67558

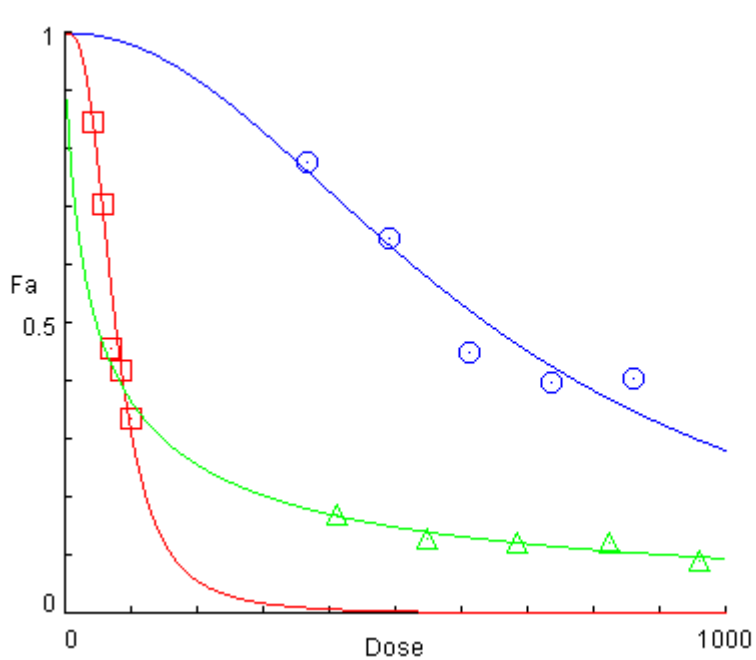
**Y-int:** 1.23740 +/- 0.45105

**m:** -0.7385 +/- 0.15987

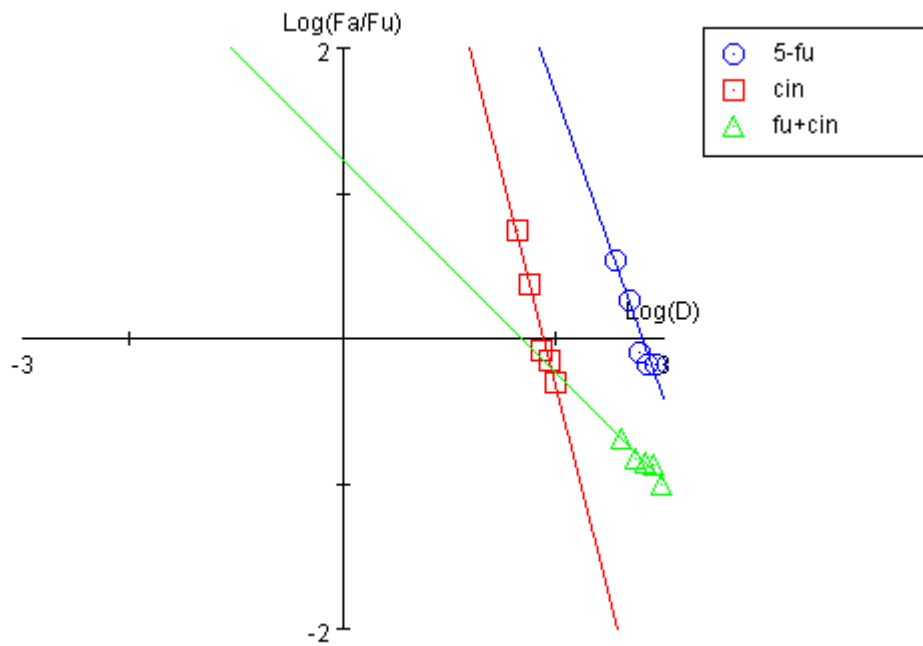
**Dm:** 47.3781

**r:** -0.9363

### Dose-Effect Curve



## Median-Effect Plot



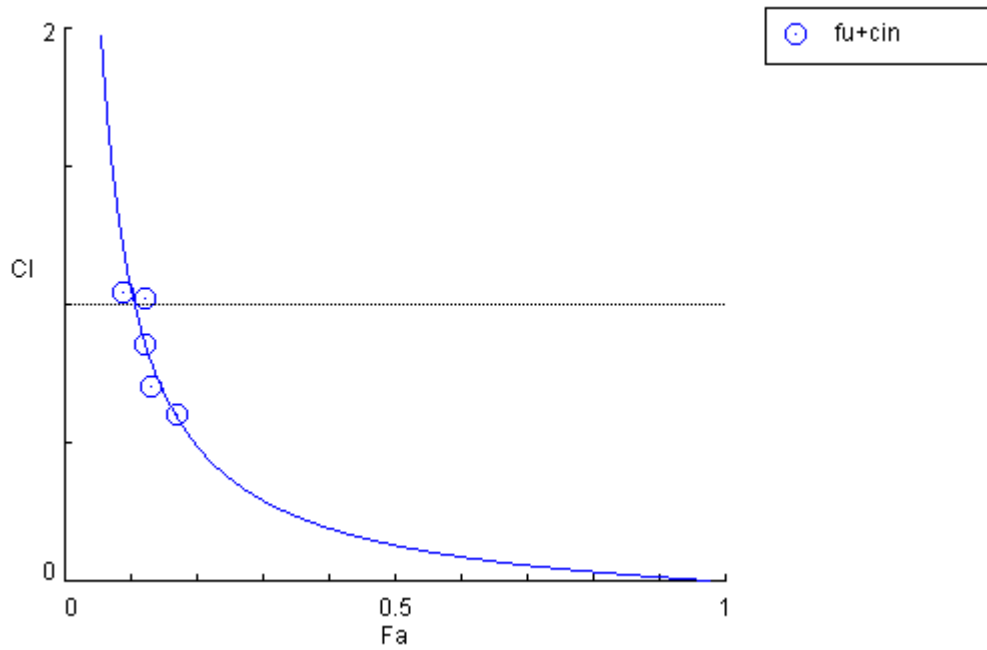
## CI Data for Drug Combo: fu+cin (5-fu+cin [8.5:1])

Fa	CI Value	Total Dose
0.05	2.15897	2553.60
0.1	1.05810	928.386
0.15	0.68123	496.212
0.2	0.48931	309.624
0.25	0.37245	209.726
0.3	0.29354	149.231
0.35	0.23651	109.553
0.4	0.19327	82.0398
0.45	0.15928	62.1711
0.5	0.13180	47.3781
0.55	0.10909	36.1049
0.6	0.08995	27.3609
0.65	0.07358	20.4895
0.7	0.05937	15.0417
0.75	0.04689	10.7029
0.8	0.03581	7.24972
0.85	0.02584	4.52364
0.9	0.01677	2.41783
0.95	0.00836	0.87903
0.97	0.00510	0.42790

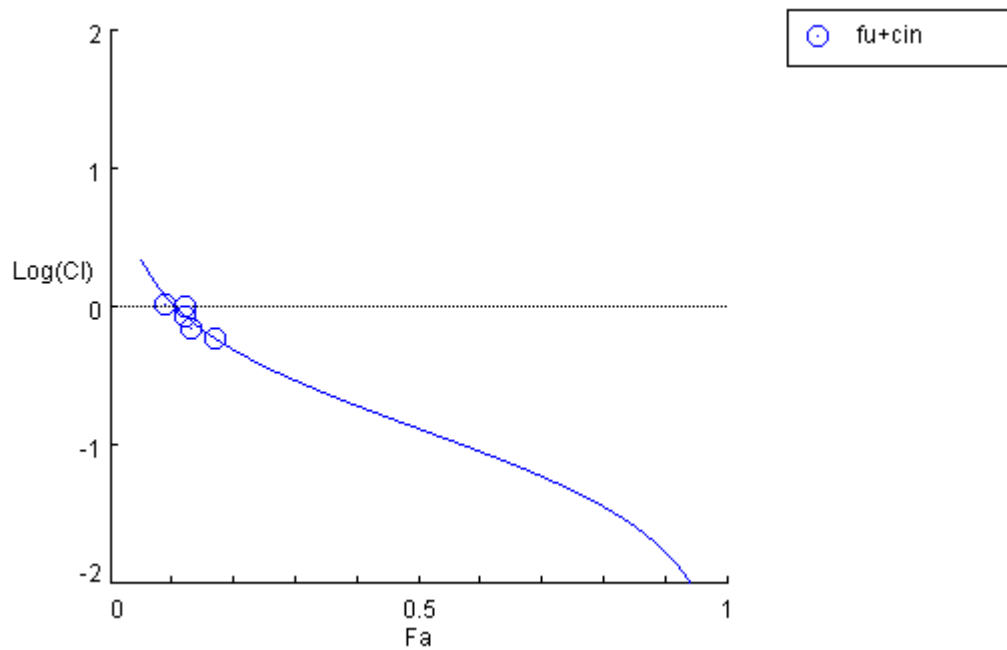
CI values for actual experimental points:

Total Dose	Fa	CI Value
412.3	0.172	0.60455
548.53	0.131	0.70673
687.353	0.123	0.86024
824.824	0.122	1.02843
962.294	0.09	1.04672

Combination Index Plot



## Logarithmic Combination Index Plot



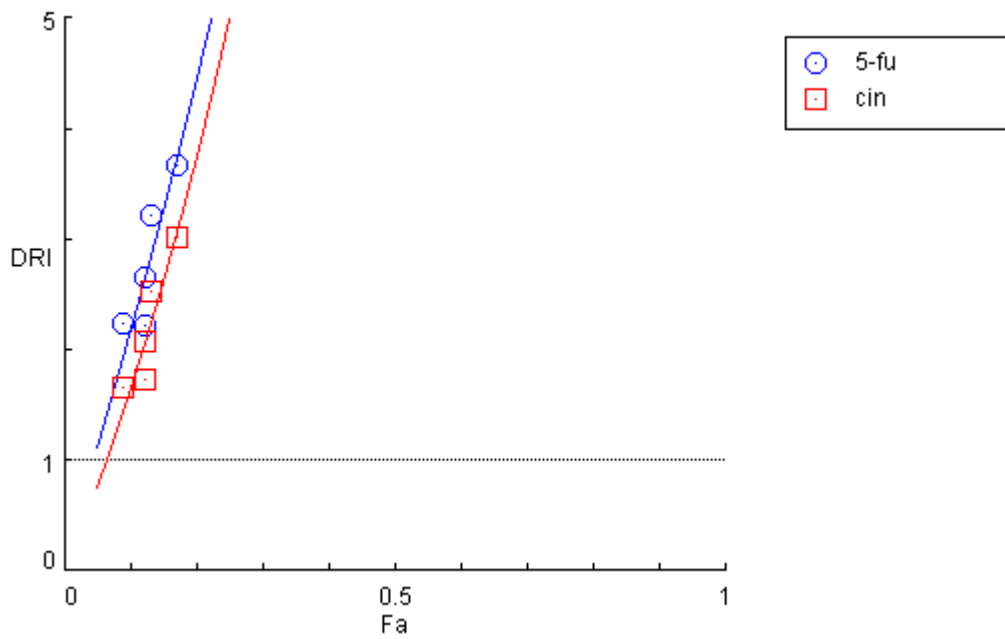
### DRI Data for Drug Combo: fu+cin (5-fu+cin [8.5:1])

Fa	Dose 5-fu	Dose cin	DRI 5-fu	DRI cin
0.05	2604.68	209.708	1.14000	0.78017
0.1	1823.48	162.183	2.19522	1.65958
0.15	1462.27	138.325	3.29356	2.64824
0.2	1238.36	122.709	4.47009	3.76500
0.25	1079.51	111.149	5.75279	5.03471
0.3	957.514	101.945	7.17118	6.48977
0.35	858.699	94.2475	8.76035	8.17277
0.4	775.497	87.5726	10.5648	10.1407
0.45	703.297	81.6165	12.6431	12.4713
0.5	639.076	76.1734	15.0758	15.2739
0.55	580.718	71.0934	17.9764	18.7062
0.6	526.653	66.2581	21.5129	23.0055
0.65	475.624	61.5655	25.9440	28.5450
0.7	426.540	56.9170	31.6934	35.9476
0.75	378.336	52.2039	39.5075	46.3367
0.8	329.806	47.2859	50.8443	61.9633
0.85	279.303	41.9474	69.0070	88.0929
0.9	223.977	35.7769	103.533	140.572
0.95	156.802	27.6688	199.367	299.028
0.97	121.666	23.0450	317.785	511.633

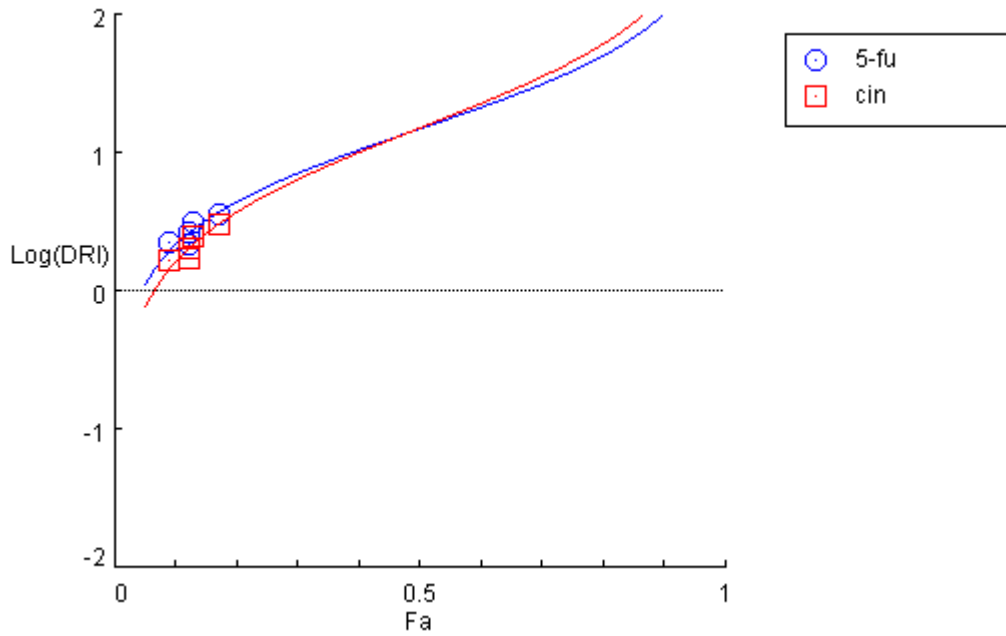
DRI values calculated at experimental points

<b>Fa</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>	<b>DRI 5-fu</b>	<b>DRI cin</b>
0.172	1352.79	130.780	3.66710	3.01337
0.131	1576.44	146.027	3.21205	2.52905
0.123	1631.68	149.698	2.65314	2.06899
0.122	1638.94	150.178	2.22079	1.72969
0.09	1927.64	168.808	2.23884	1.66651

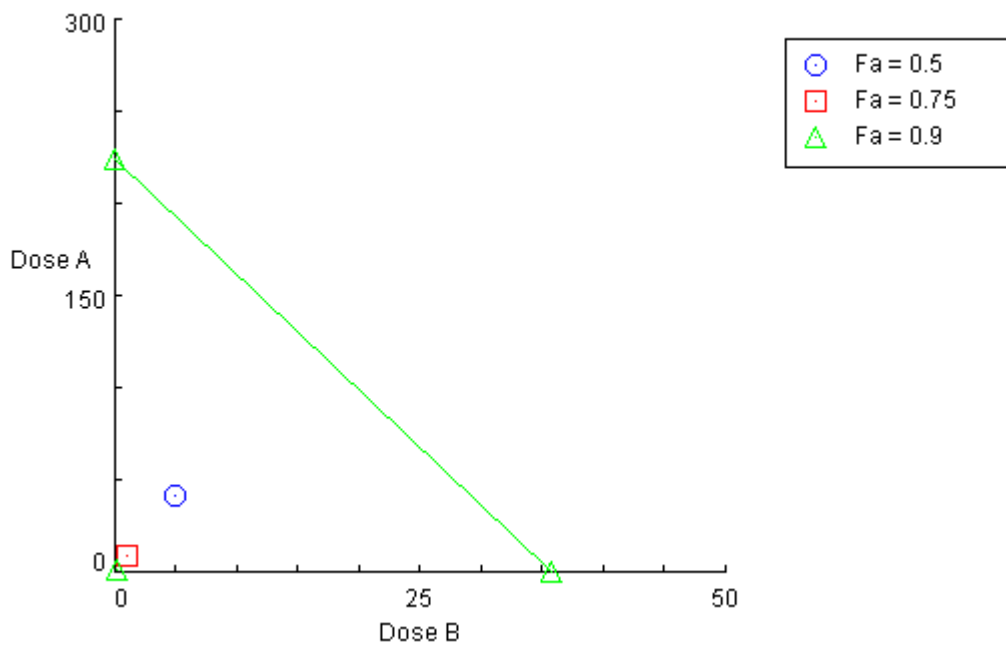
DRI Plot for Combo: fu+cin (5-fu+cin [8.5:1])



Log(DRI) Plot for Combo: fu+cin (5-fu+cin [8.5:1])



Isobologram for Combo: fu+cin (5-fu+cin [8.5:1])



## Summary Table

**Experiment Name:** kh. nasirzadeh  
**Date:** 2017  
**File Name:** C:\Users\sng\Desktop\kh. nasirzadeh\analyzed\5-fuCin.cse  
**Description:** 5flurouracill + cinaropecrin on kyse30 cell line, after 24h treatment

analyzed by N. Goftari

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

**Drug:** cinaroprerin (cin) [uM]

**Drug Combo:** 5-flurouracil + cinaropecrin (fu+cin) (5-fu+cin [8.5:1])

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<b>Drug/Combo</b>	<b>Dm</b>	<b>m</b>	<b>r</b>
5-fu	639.076	-2.0956	-0.9626
cin	76.1734	-2.9075	-0.9816
fu+cin	47.3781	-0.7385	-0.9363

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CI values at:

<b>Combo</b>	<b>ED50</b>	<b>ED75</b>	<b>ED90</b>	<b>ED95</b>
fu+cin	0.13180	0.04689	0.01677	0.00836

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Data for Fa = 0.5

<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
5-fu		639.076	
cin			76.1734
fu+cin	0.13180	42.3909	4.98717

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Data for Fa = 0.75

<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
5-fu		378.336	
cin			52.2039
fu+cin	0.04689	9.57629	1.12662

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Data for Fa = 0.9

<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
5-fu		223.977	
cin			35.7769
fu+cin	0.01677	2.16333	0.25451

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Data for Fa = 0.95

<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
5-fu		156.802	
cin			27.6688
fu+cin	0.00836	0.78650	0.09253

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Data for Fa = 0.97

<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
5-fu		121.666	
cin			23.0450



<b>Drug/Combo</b>	<b>CI value</b>	<b>Dose 5-fu</b>	<b>Dose cin</b>
fu+cin	0.00510	0.38286	0.04504