

CompuSyn Report

Experiment Name: Non-constant ratio combination of PU-H71+DHEA invitro against MDA-MB-231

Date: 19-7-2017

File Name: C:\Users\Carnival\Desktop\Non-constant ratio combination of PU-H71+DHEA invitro against MDA-MB-231 triple negative breast cancer cell line, Neutral red assay, 19-7-2017.cse

Description: Non-constant ratio combination of Heat shock protein 90 inhibitor (PU-H71) and glucose-6-phosphate dehydrogenase inhibitor (DHEA) invitro against MDA-MB-231 triple negative breast cancer cell line, Neutral red assay.

Drug: PU-H71 (PU-H71) [nM]

Drug: Dehydroepiandrosterone (DHEA) [μ M]

Drug Combo: Non-constant ratio combination of PU-H71+DHEA (NC P+D) (PU-H71+DHEA)

Data for Drug: PU-H71 [nM]

Dose	Effect
10.0	0.267
50.0	0.3855
100.0	0.46
200.0	0.4878
250.0	0.5222
300.0	0.6068
400.0	0.6017

7 data points entered.

X-int: 2.18934

Y-int: -0.8407 +/- 0.07855

m: 0.38399 +/- 0.03683

Dm: 154.648

r: 0.97776

Data for Drug: DHEA [μ M]

Dose	Effect
100.0	0.0054
200.0	0.3144
300.0	0.4106
350.0	0.9089
400.0	0.9512

5 data points entered.

X-int: 2.40168

Y-int: -13.473 +/- 1.91995

m: 5.60974 +/- 0.80174

Dm: 252.164

r: 0.97070

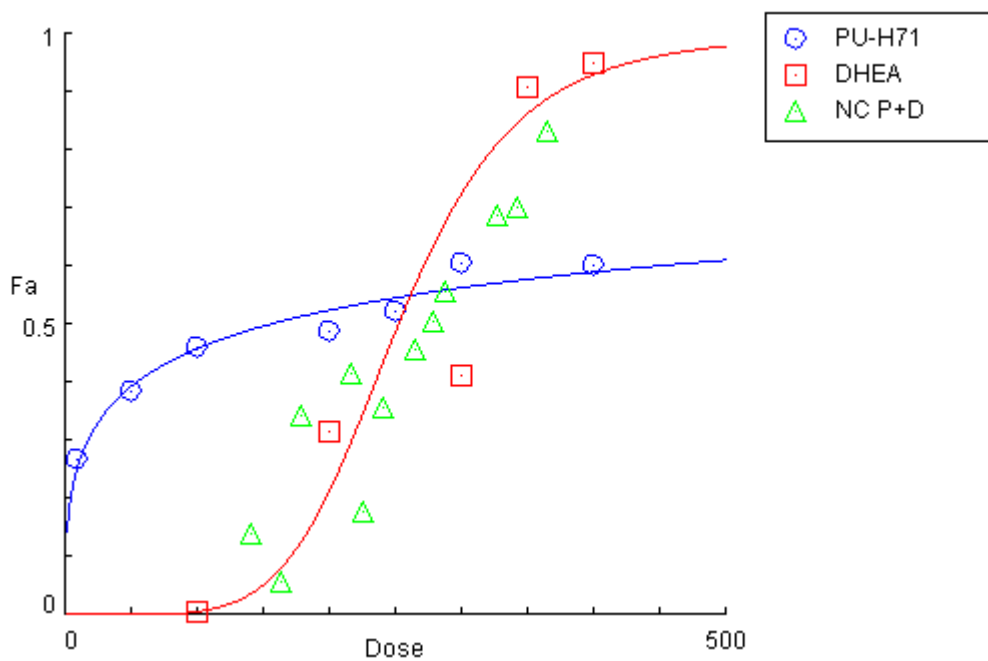
Data for Non-Constant Combo: NC P+D (PU-H71+DHEA)

Dose PU-H71 Dose DHEA Effect

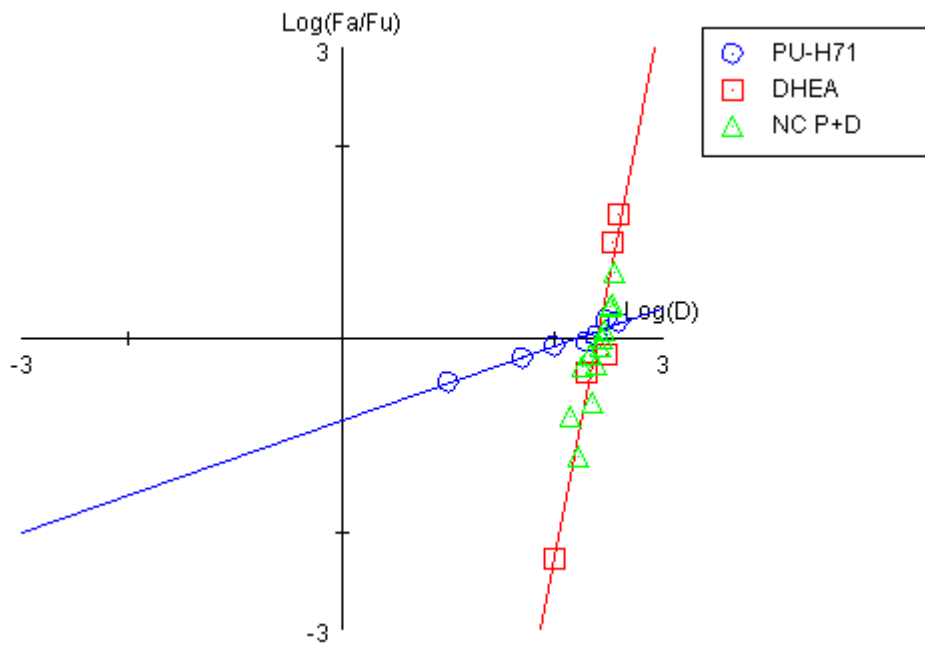
155.0	63.0	0.4147
155.0	125.0	0.5053
155.0	188.0	0.7014
39.0	125.0	0.0584
39.0	188.0	0.1792
39.0	250.0	0.5579
78.0	63.0	0.1387
78.0	188.0	0.4581
78.0	250.0	0.6865
116.0	63.0	0.3417
116.0	125.0	0.3564
116.0	250.0	0.8313

12 data points entered.

Dose-Effect Curve



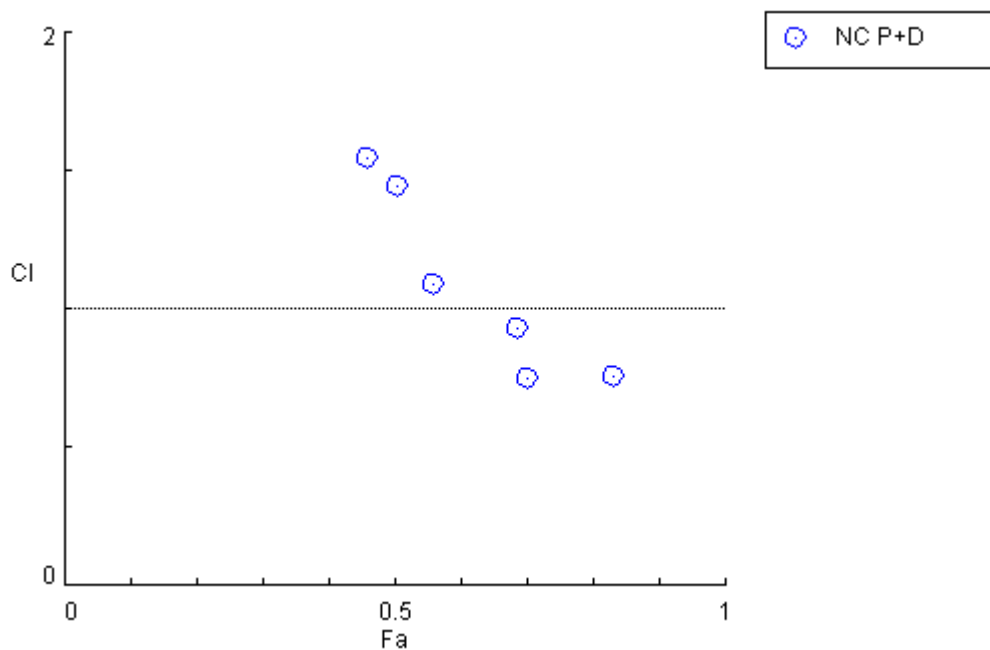
Median-Effect Plot



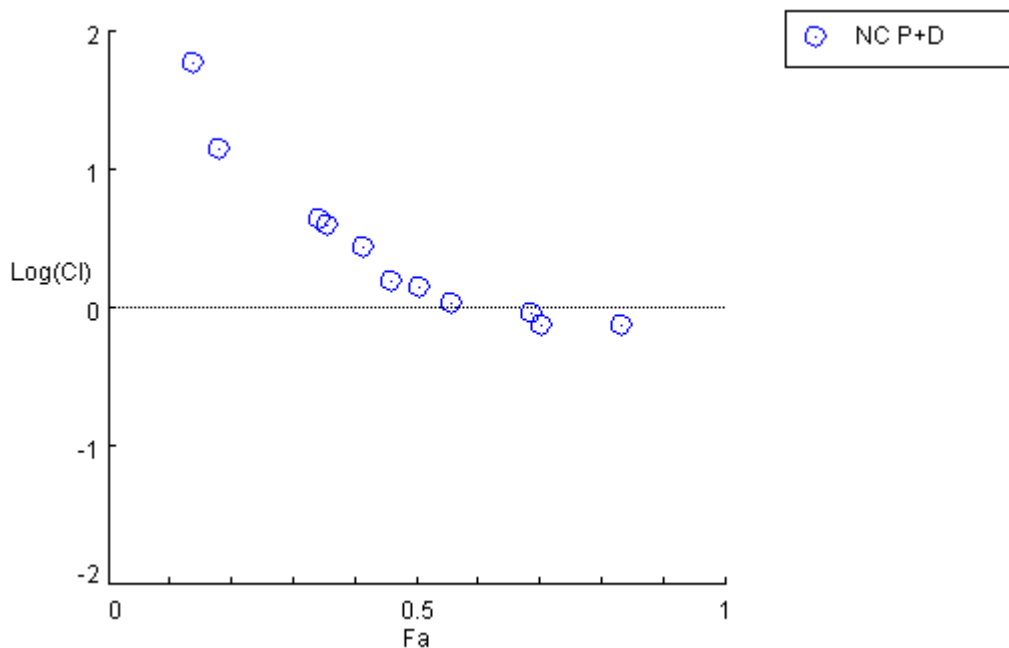
CI Data for Non-Constant Combo: NC P+D (PU-H71+DHEA)

Dose PU-H71	Dose DHEA	Effect	CI
155.0	63.0	0.4147	2.72432
155.0	125.0	0.5053	1.44228
155.0	188.0	0.7014	0.74870
39.0	125.0	0.0584	352.547
39.0	188.0	0.1792	14.2475
39.0	250.0	0.5579	1.08874
78.0	63.0	0.1387	58.9749
78.0	188.0	0.4581	1.54939
78.0	250.0	0.6865	0.92764
116.0	63.0	0.3417	4.41839
116.0	125.0	0.3564	4.04674
116.0	250.0	0.8313	0.75786

Combination Index Plot



Logarithmic Combination Index Plot

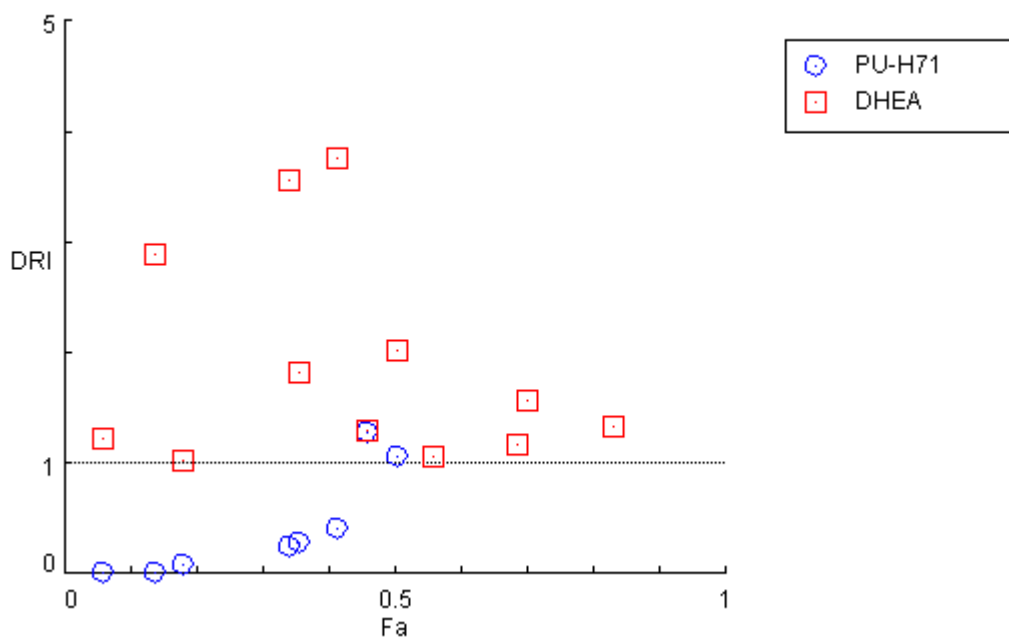


DRI Data for Non-Constant Combo: NC P+D (PU-H71+DHEA)

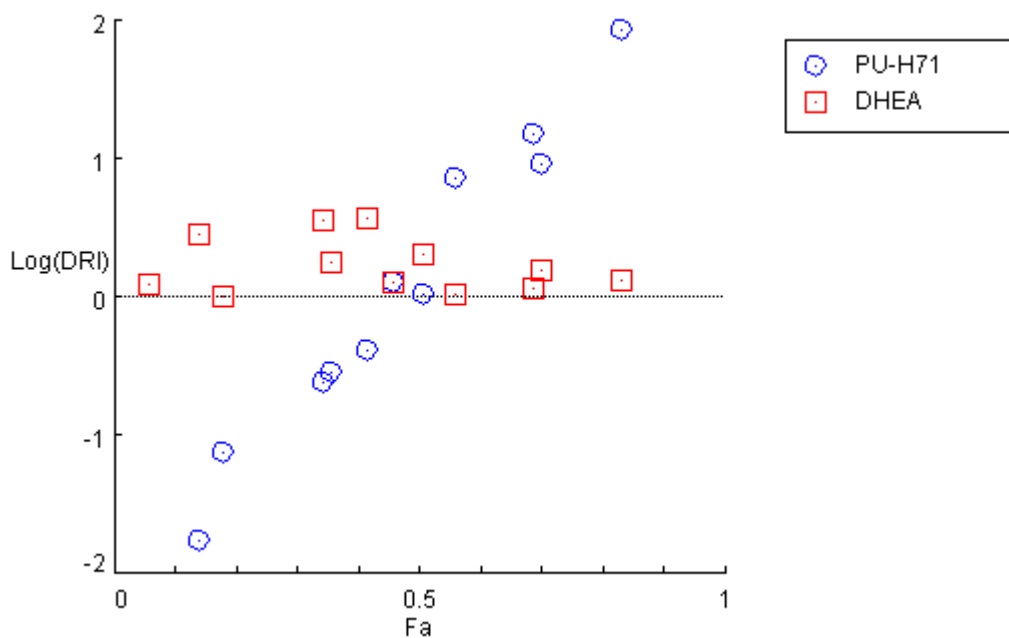
Fa	Dose PU-H71	Dose DHEA	DRI PU-H71	DRI DHEA
0.4147	63.0426	237.141	0.40673	3.76415
0.5053	163.426	253.119	1.05436	2.02495
0.7014	1429.52	293.627	9.22272	1.56185
0.0584	0.11088	153.618	0.00284	1.22894
0.1792	2.93905	192.252	0.07536	1.02262
0.5579	283.442	262.842	7.26774	1.05137

Fa	Dose PU-H71	Dose DHEA	DRI PU-H71	DRI DHEA
0.1387	1.33040	182.099	0.01706	2.89046
0.4581	99.8484	244.724	1.28011	1.30173
0.6865	1190.78	289.977	15.2664	1.15991
0.3417	28.0358	224.346	0.24169	3.56105
0.3564	33.1812	226.949	0.28605	1.81559
0.8313	9843.44	335.085	84.8572	1.34034

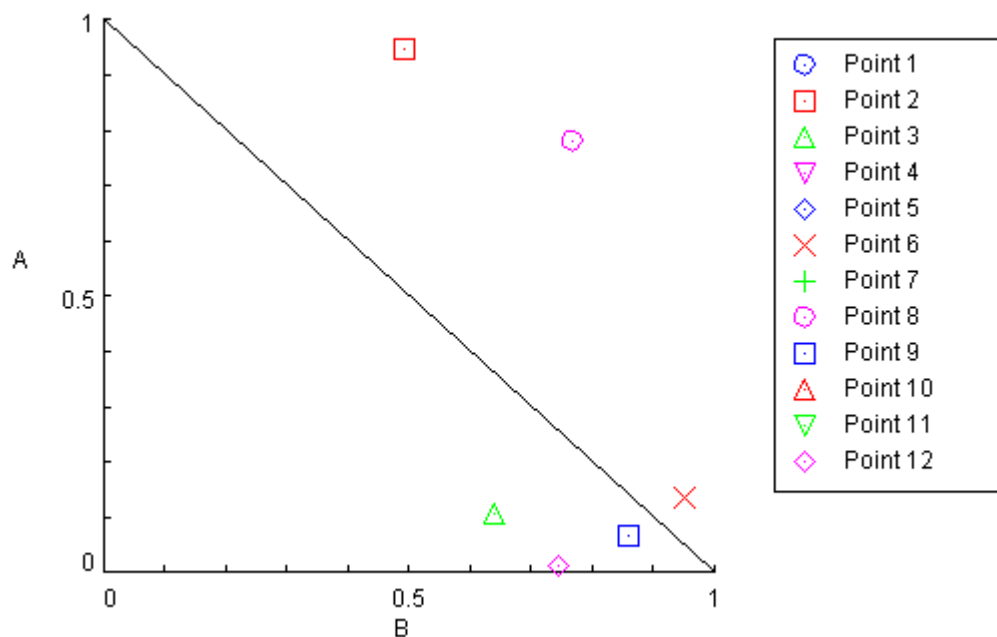
DRI Plot for Non-Constant Combo: NC P+D (PU-H71+DHEA)



Log(DRI) Plot for Non-Constant Combo: NC P+D (PU-H71+DHEA)



Normalized Isobologram for Combo: NC P+D (PU-H71+DHEA)



Summary Table

Experiment Name: Non-constant ratio combination of PU-H71+DHEA invitro against MDA-MB-231

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Drug: PU-H71 (PU-H71) [nM]

Drug: Dehydroepiandrosterone (DHEA) [μM]

Drug Combo: Non-constant ratio combination of PU-H71+DHEA (NC P+D) (PU-H71+DHEA)

Drug/Combo	Dm	m	r
PU-H71	154.648	0.38399	0.97776
DHEA	252.164	5.60974	0.97070

CI values at:

Combo ED50 ED75 ED90 ED95

Data for Fa = 0.5

Drug/Combo	CI value	Dose PU-H71	Dose DHEA
PU-H71		154.648	
DHEA			252.164

Data for Fa = 0.75

Drug/Combo CI value Dose PU-H71 Dose DHEA

PU-H71	2703.20	
DHEA		306.715

Data for Fa = 0.9

Drug/Combo CI value Dose PU-H71 Dose DHEA

PU-H71	47251.3	
DHEA		373.068

Data for Fa = 0.95

Drug/Combo CI value Dose PU-H71 Dose DHEA

PU-H71	330763.	
DHEA		426.222

Data for Fa = 0.97

Drug/Combo CI value Dose PU-H71 Dose DHEA

PU-H71	1320767	
DHEA		468.593