Researcher   : Dr/Magda Abdelaziz   email: Magdaaziz1@yahoo.com   *mob.01006396439*

Assay   : EGFR enzyme assay
Samples   : 4 preparations.
Date   : 18-12-2017
Reference   : **Sorafinib**
Cell line   : ---
Reader   : ROBONIK P2000 ELISA READER   wl 450 nm
Kit used for immune-assay: *cloud clone SEA757Hu 96 Tests*
Solvent : DMSO
Assay samples :Cell culture supernatants

EGFR report

ser	compound	M.W	IC50	EGFR IC_{50} uM
1	**6a**	**285.15**	9.4±0.98	4.66
2	**6b**	**299.20**	6.7±0.67	0.56
3	**7**	**368.25**	10.3±1.13	1.6
4	**8b**	**397.00**	5.5±0.45	2.16
5	**Sorafinib**	393.44	0.74±0.03	1.28

*Ref=**Sorafinib**

6a

y = 27.661x + 31.5

6b

y = 27.833x + 56.955

7

y = 32.033x + 43.376

8b

y = 29.408x + 40.181

sorafenib

y = 35.246x + 46.246
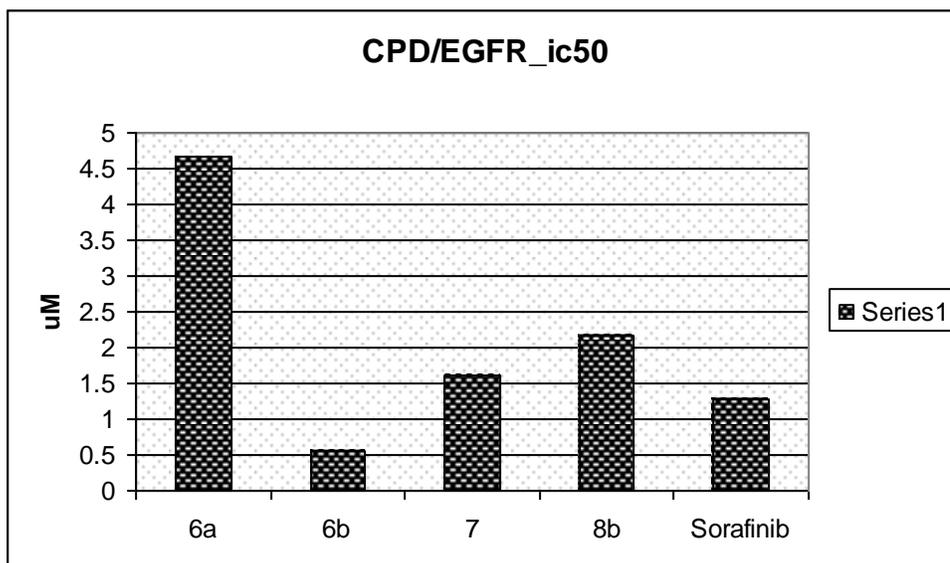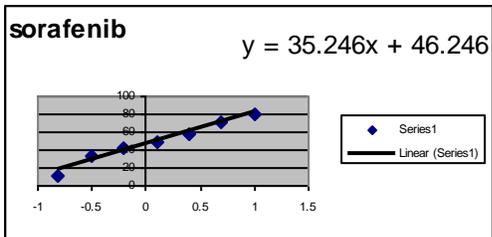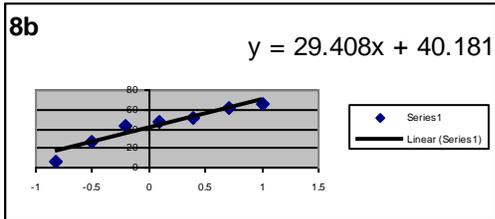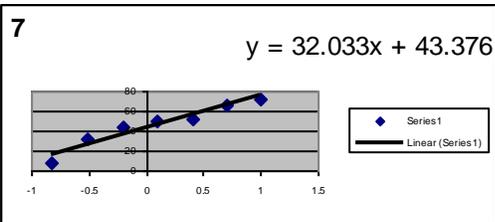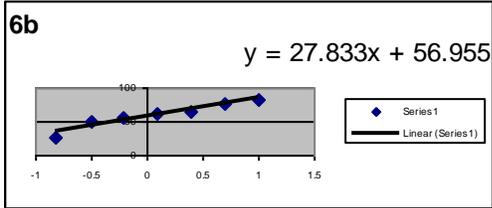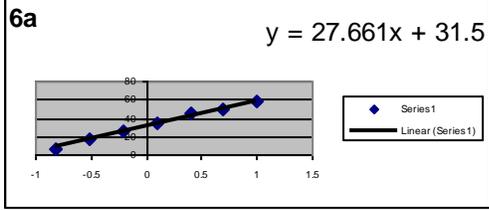
Detailed Results:

ST.	CONC.ng/ml
St.1	200
St.2	100
St.3	50
St.4	25
St.5	12.5
St.6	6.25
St.7	3.12

plate map:

	1	2	3	4	5	6
A	St.1	6a(10uM)	6b(10uM)	7(10uM)	8b(10uM)	ref(10uM)
B	St.2	6a(5uM)	6b(5uM)	7(5uM)	8b(5uM)	ref(5uM)
C	St.3	6a(2.5uM)	6b(2.5uM)	7(2.5uM)	8b(2.5uM)	ref(2.5uM)
D	St.4	6a(1.25uM)	6b(1.25uM)	7(1.25uM)	8b(1.25uM)	ref(1.25uM)
E	St.5	6a(0.62uM)	6b(0.62uM)	7(0.62uM)	8b(0.62uM)	ref(0.62uM)
F	St.6	6a(0.31uM)	6b(0.31uM)	7(0.31uM)	8b(0.31uM)	ref(0.31uM)
G	St.7	6a(0.15uM)	6b(0.15uM)	7(0.15uM)	8b(0.15uM)	ref(0.15uM)
H	B	cont	cont	cont	cont	cont

Samples OD results

*I

	1	2	3	4	5	6
A	2.746	0.708	0.257	**0.438**	0.578	**0.296**
B	1.133	0.836	0.372	**0.556**	0.646	0.463
C	0.728	0.939	0.588	**0.784**	0.826	0.715
D	0.376	1.115	0.637	**0.843**	0.881	0.841
E	0.115	1.261	0.741	0.955	0.937	0.957
F	0.044	1.417	0.861	1.173	1.264	1.125
G	0.019	1.639	1.264	1.603	1.629	1.556
H	0.005	0.008	0.003	1.771	1.759	1.779

**II

	7	8	9	10	11	12
A	2.749	0.697	0.264	**0.443**	0.574	**0.315**
B	1.141	0.829	0.377	**0.558**	0.651	0.457
C	0.735	0.942	0.579	**0.791**	0.833	0.723
D	0.384	1.124	0.642	**0.847**	0.894	0.855
E	0.122	1.263	0.746	0.965	0.962	0.963
F	0.048	1.433	0.854	1.168	1.282	1.137
G	0.016	1.645	1.272	1.621	1.644	1.569
H	0.011	0.005	0.007	1.759	1.766	1.781

2.746	2.749	0.708	0.697	0.257	0.264	**0.438**	**0.443**	0.578	0.574	**0.296**	**0.315**
1.133	1.141	0.836	0.829	0.372	0.377	**0.556**	**0.558**	0.646	0.651	0.463	0.457
0.728	0.735	0.939	0.942	0.588	0.579	**0.784**	**0.791**	0.826	0.833	0.715	0.723
0.376	0.384	1.115	1.124	0.637	0.642	**0.843**	**0.847**	0.881	0.894	0.841	0.855
0.115	0.122	1.261	1.263	0.741	0.746	0.955	0.965	0.937	0.962	0.957	0.963
0.044	0.048	1.417	1.433	0.861	0.854	1.173	1.168	1.264	1.282	1.125	1.137
0.019	0.016	1.639	1.645	1.264	1.272	1.603	1.621	1.629	1.644	1.556	1.569
0.005	0.011	0.008	0.005	0.003	0.007	1.771	1.759	1.759	1.766	1.779	1.781

s	conc uM	log conc	%inh	ic50
6a	10	1	57.65011	4.66
	5	0.69897	50.34841	
	2.5	0.39794	44.35137	
	1.25	0.09691	34.55152	
	0.625	-0.20761	26.84952	
	0.31	-0.50864	18.1616	
	0.15	-0.82391	6.671609	
6b	10	1	83.66197	0.56
	5	0.69897	76.71609	
	2.5	0.39794	64.44774	
	1.25	0.09691	61.23795	
	0.625	-0.20761	55.33729	
	0.31	-0.50864	48.95478	
	0.15	-0.82391	26.52335	
7	10	1	72.78725	1.6
	5	0.69897	65.98221	
	2.5	0.39794	52.86138	
	1.25	0.09691	49.65159	
	0.625	-0.20761	43.2765	
	0.31	-0.50864	31.78651	
	0.15	-0.82391	8.228317	
8b	10	1	64.8851	2.16
	5	0.69897	60.72646	
	2.5	0.39794	50.51149	
	1.25	0.09691	47.28688	

Sorafinib

0.625	-0.20761	43.85471
0.31	-0.50864	26.25649
0.15	-0.82391	6.968125
10	1	80.88955
10	0.69897	71.63825
5	0.39794	56.7235
2.5	0.09691	49.4811
1.25	-0.20761	43.2765
0.625	-0.50864	33.92884
0.31	-0.82391	10.82283

1.28

Sample	Wells	Raw	Background Corrected	Conc.	Conc. (Average)	%CV	SD	SEM
6a(10uM)	A3	0.708	0.696	57.55	57.13	1.04	0.594	0.42
	A4	0.697		56.7				
6a(5uM)	B3	0.836	0.826	67.25	66.98	0.556	0.373	0.263
	B4	0.829		66.72				
6a(2.5uM)	C3	0.939	0.934	74.96	75.07	0.21	0.158	0.112
	C4	0.942		75.18				
6a(1.25uM)	D3	1.12	1.11	87.96	88.29	0.528	0.467	0.33
	D4	1.12		88.62				
6a(0.62uM)	E3	1.26	1.26	98.61	98.68	0.104	0.103	0.0725
	E4	1.26		98.75				
6a(0.31uM)	F3	1.42	1.42	109.9	110.4	0.735	0.812	0.574
	F4	1.43		111				
6a(0.15uM)	G3	1.64	1.64	125.7	125.9	0.239	0.301	0.213
	G4	1.65		126.1				
6b(10uM)	A5	0.257	0.254	21.75	22.04	1.88	0.414	0.293
	A6	0.264		22.33				
6b(5uM)	B5	0.372	0.368	31.21	31.41	0.911	0.286	0.202
	B6	0.377		31.61				
6b(2.5uM)	C5	0.588	0.577	48.31	47.96	1.03	0.495	0.35
	C6	0.579		47.61				
6b(1.25uM)	D5	0.637	0.633	52.1	52.29	0.521	0.272	0.193
	D6	0.642		52.48				
6b(0.62uM)	E5	0.741	0.737	60.06	60.25	0.446	0.269	0.19
	E6	0.746		60.44				
6b(0.31uM)	F5	0.861	0.851	69.12	68.86	0.54	0.372	0.263
	F6	0.854		68.6				

6b(0.15uM)	G5	1.26	1.26	98.83	99.12	0.414	0.41	0.29
	G6	1.27		99.41				
7(10uM)	A7	0.438	0.434	36.51	36.71	0.768	0.282	0.199
	A8	0.443		36.91				
7(5uM)	B7	0.556	0.551	45.82	45.89	0.24	0.11	0.078
	B8	0.558		45.97				
7(2.5uM)	C7	0.784	0.781	63.32	63.59	0.589	0.374	0.265
	C8	0.791		63.85				
7(1.25uM)	D7	0.843	0.839	67.77	67.92	0.313	0.213	0.15
	D8	0.847		68.07				
7(0.62uM)	E7	0.955	0.954	76.15	76.52	0.687	0.526	0.372
	E8	0.965		76.89				
7(0.31uM)	F7	1.17	1.16	92.2	92.02	0.281	0.258	0.183
	F8	1.17		91.84				
7(0.15uM)	G7	1.6	1.61	123.2	123.8	0.73	0.904	0.639
	G8	1.62		124.4				
8b(10uM)	A9	0.578	0.57	47.53	47.37	0.464	0.22	0.156
	A10	0.574		47.22				
8b(5uM)	B9	0.646	0.642	52.79	52.98	0.514	0.272	0.192
	B10	0.651		53.18				
8b(2.5uM)	C9	0.826	0.823	66.49	66.76	0.558	0.373	0.264
	C10	0.833		67.02				
8b(1.25uM)	D9	0.881	0.881	70.62	71.11	0.967	0.688	0.486
	D10	0.894		71.6				
8b(0.62uM)	E9	0.937	0.943	74.81	75.74	1.74	1.32	0.93
	E10	0.962		76.67				
8b(0.31uM)	F9	1.26	1.27	98.83	99.48	0.927	0.923	0.652
	F10	1.28		100.1				
8b(0.15uM)	G9	1.63	1.63	125	125.5	0.599	0.752	0.532
	G10	1.64		126.1				
ref(10uM)	A11	0.296	0.299	24.99	25.78	4.3	1.11	0.783
	A12	0.315		26.56				
ref(5uM)	B11	0.463	0.454	38.5	38.26	0.88	0.337	0.238
	B12	0.457		38.02				
ref(2.5uM)	C11	0.715	0.713	58.08	58.38	0.739	0.431	0.305
	C12	0.723		58.69				
ref(1.25uM)	D11	0.841	0.842	67.62	68.15	1.09	0.744	0.526
	D12	0.855		68.67				
ref(0.62uM)	E11	0.957	0.954	76.29	76.52	0.412	0.315	0.223
	E12	0.963		76.74				
ref(0.31uM)	F11	1.13	1.12	88.69	89.13	0.697	0.622	0.44
	F12	1.14		89.57				

ref(0.15uM)	G11	1.56	1.56	119.8	120.3	0.544	0.654	0.463
	G12	1.57		120.7				
cont	H7	1.77	1.76	135	134.9	0.499	0.673	0.275
	H8	1.76		134.2				
	H9	1.76		134.2				
	H10	1.77		134.7				
	H11	1.78		135.6				
	H12	1.78		135.7				
Blank	H1	0.005	0	< Curve	-	-	-	-
	H2	0.011		< Curve				
	H3	0.008		< Curve				
	H4	0.005		< Curve				
	H5	0.003		< Curve				
	H6	0.007		< Curve				