

Synthesis, characterisation and *in vitro* anticancer activity of curcumin analogues bearing pyrazole/pyrimidine ring targeting EGFR tyrosine kinase

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Supplementary Materials

A series of 14, novel curcumin analogues has been synthesized. There were 10 tested compounds among 14 synthesized compounds, which showed potent anticancer activity in both one dose and 5-dose assays. The five dose assay for the compounds **8**, **10**, and **13** is described and given in the article in μM while for rest of the compounds (**1**, **2**, **3**, **5**, **6**, **11**, and **12**) the results of five dose assay can be found online as supplementary materials.

National Cancer Institute Developmental Therapeutics Program		NSC :763372/1		Units :Molar		SSPL :0Y1V		EXP. ID :1202NS13	
Mean Graphs		Report Date :April 25, 2012				Test Date :February 21, 2012			
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50			
Leukemia									
CCRF-CEM	-6.67		-6.07		>	-4.00			
HL-60(TB)	-6.50		-6.05		>	-4.00			
K-562	-6.58		-5.75		>	-4.00			
MOLT-4	-6.48		-5.86		>	-4.00			
RPMI-8226	-6.63		-6.17						
SR	-7.57		-7.07		>	-4.00			
Non-Small Cell Lung Cancer									
A549/ATCC	-6.49		-5.68			-4.72			
EKVX	-6.17		-5.42			-4.43			
HOP-62	-6.27		-5.73			-5.34			
HOP-92	-6.50		-5.79			-4.76			
NCI-H226	-6.21		-5.56			-4.48			
NCI-H23	-6.53		-5.72		>	-4.00			
NCI-H322M	-6.21		-5.20			-4.19			
NCI-H460	-6.48		-5.86			-4.68			
NCI-H522	-7.21		-6.39			-5.58			
Colon Cancer									
COLO 205	-5.75		-5.50			-5.25			
HCC-2998	-6.19		-5.23			-4.57			
HCT-116	-6.51		-5.98						
HCT-15	-6.44		-4.98			-4.21			
HT29	-6.54		-6.15			-5.47			
KM12	-6.53		-5.82			-5.21			
SW-620	-6.44		-5.73			-4.96			
CNS Cancer									
SF-268	-6.25		-5.32		>	-4.00			
SF-295	-6.16		-5.35			-4.51			
SF-539	-6.34		-5.65			-5.11			
SNB-19	-6.04		-5.23			-4.54			
SNB-75	-6.61		-6.01			-5.30			
U251	-6.38		-5.77			-5.28			
Melanoma									
LOX IMVI	-6.71		-5.86			-5.20			
MALME-3M	-6.36		-5.58						
M14	-6.61		-5.89			-5.32			
MDA-MB-435	-7.56		-7.00			-4.97			
SK-MEL-28	-6.30		-5.39			-4.65			
SK-MEL-5	-6.56		-5.89			-5.44			
UACC-257	-5.96		-5.41			-4.76			
UACC-62	-6.33		-5.43		>	-4.00			
Ovarian Cancer									
IGROV1	-6.30		-5.57		>	-4.00			
OVCAR-3	-6.33		-5.43			-4.49			
OVCAR-5	-5.48		-5.03		>	-4.00			
OVCAR-8	-6.40		-5.77			-5.02			
NCI/ADR-RES	-6.61		-5.10		>	-4.00			
SK-OV-3	-6.41		-5.66			-4.66			
Renal Cancer									
786-0	-6.34		-5.76			-5.29			
A498	-6.31		-5.68			-5.22			
ACHN	-6.43		-4.91			-4.09			
CAKI-1	-6.70		-6.12		>	-4.00			
RXF 393	-6.48		-6.09			-5.42			
SN12C	-6.41		-4.80		>	-4.00			
TK-10	-6.29		-5.56			-4.72			
UO-31	-6.64		-5.91						
Prostate Cancer									
PC-3	-6.50		-5.75			-4.91			
DU-145	-6.27		-5.74			-5.30			
Breast Cancer									
MCF7	-6.54		-5.85			-5.32			
MDA-MB-231/ATCC	-6.12		-4.87		>	-4.00			
HS 578T	-7.38		-6.51			-4.09			
BT-549	-6.52		-5.42		>	-4.00			
T-47D	-6.00		-5.58			-5.16			
MID	-6.45		-5.69			-4.65			
Delta	1.12		1.38			0.93			
Range	2.09		2.27			1.58			

National Cancer Institute Developmental Therapeutics Program				NSC :757924/1		Units :Molar		SSPL :0Y1V		EXP. ID :1108RS99	
Mean Graphs				Report Date :September 27, 2011				Test Date :August 08, 2011			
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50					
Leukemia											
CCRF-CEM	-6.52		> -4.00		> -4.00						
HL-60(TB)	-6.54		-5.98		> -4.00						
MOLT-4	-6.38		-5.24		> -4.00						
RPMI-8226	-6.46		-5.56		> -4.00						
SR	-7.21		> -4.00		> -4.00						
Non-Small Cell Lung Cancer											
A549/ATCC	-6.15		-4.97		-4.39						
EKVX	-5.82		-4.93		-4.12						
HOP-62	-6.27		-5.72		-5.26						
HOP-92	-5.66		-5.14		> -4.00						
NCI-H226	-5.73		-5.15		-4.52						
NCI-H23	-6.47		-5.86								
NCI-H322M	-6.11		-5.03		-4.31						
NCI-H460	-6.50		-5.67		> -4.00						
NCI-H522	-6.67		-6.10		-4.29						
Colon Cancer											
COLO 205	-5.69		-5.45		-5.21						
HCC-2998	-5.82		-5.12		-4.49						
HCT-116	-6.44		-5.73		-4.44						
HCT-15	-6.34		-4.93		> -4.00						
HT29	-5.60		-5.20		> -4.00						
KM12	-6.47		-5.84		-4.92						
SW-620	-6.35		-5.60		> -4.00						
CNS Cancer											
SF-268	-6.29		-5.44		-4.54						
SF-295	-5.80		-4.94		> -4.00						
SF-539	-6.32		-5.65		-5.08						
SNB-19	-6.19		-4.98		-4.35						
SNB-75	-6.38		-5.59		> -4.00						
U251	-6.26		-5.26		-4.34						
Melanoma											
LOX IMVI	-6.36		-5.62		> -4.00						
MALME-3M	-6.22		-5.50		-4.70						
M14	-6.42		-5.82		-4.75						
MDA-MB-435	-6.87		-6.43		-5.97						
SK-MEL-2	-6.42		-5.71		> -4.00						
SK-MEL-28	-5.94		-5.34		-4.59						
SK-MEL-5	-6.46		-5.87		-5.39						
UACC-257	-5.85		-5.19		-4.53						
UACC-62	-6.24		-5.62		-5.11						
Ovarian Cancer											
IGROV1	-6.23		-5.31		> -4.00						
OVCAR-3	-6.45		-5.98		-4.23						
OVCAR-4	-6.01		-5.15		> -4.00						
OVCAR-5	-5.61		-5.12		> -4.00						
OVCAR-8	-6.13		-5.42		-4.15						
NCI/ADR-RES	-6.44		-5.45		> -4.00						
SK-OV-3	-6.35		-5.77		-5.19						
Renal Cancer											
786-0	-6.28		-5.75		-5.32						
A498	-5.73		-5.28		-4.72						
ACHN	-6.28		-4.94		-4.32						
CAKI-1	-6.43		-4.10		> -4.00						
RXF 393	-6.60		-6.12		-5.50						
SN12C	-6.34		-4.67		> -4.00						
TK-10	-6.18		-5.21		-4.54						
UO-31	-6.41		-5.37		-4.39						
Prostate Cancer											
PC-3	-6.38		-5.17		> -4.00						
DU-145	-6.42		-5.83		-5.16						
Breast Cancer											
MCF7	-6.36		-5.48		-4.40						
MDA-MB-231/ATCC	-6.20		-5.17		> -4.00						
HS 578T	-6.36				> -4.00						
BT-549	-6.12		-5.34		> -4.00						
T-47D	-5.91		-5.30		-4.35						
MDA-MB-468	-6.50		-5.63		-4.36						
MID	-6.25		-5.37		-4.41						
Delta	0.96		1.06		1.56						
Range	1.61		2.43		1.97						

National Cancer Institute Developmental Therapeutics Program			NSC :757925/1		Units :Molar		SSPL :0Y1V		EXP. ID :1106NS60		
Mean Graphs			Report Date :August 02, 2011				Test Date :June 06, 2011				
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50					
Leukemia											
CCRF-CEM	-6.41		-5.31		>	-4.00					
HL-60(TB)	-6.43		-5.74		>	-4.00					
K-562	-6.43		-5.54		>	-4.00					
MOLT-4	-6.40		-5.28		>	-4.00					
RPMI-8226	-6.31		-5.48		>	-4.00					
SR	-6.53		-6.03		>	-4.00					
Non-Small Cell Lung Cancer											
A549/ATCC	-5.62		-4.62		>	-4.00					
EKVX	-5.49		-4.60		>	-4.00					
HOP-62	-5.95		-5.09		>	-4.26					
HOP-92	-5.56		-5.09		>	-4.00					
NCI-H226	-5.56		-5.01		>	-4.00					
NCI-H23	-5.93		-5.20		>	-4.00					
NCI-H322M	-5.66		-4.94		>	-4.00					
NCI-H460	-6.21		-4.97		>	-4.00					
NCI-H522	-6.58		-5.86		>	-4.00					
Colon Cancer											
COLO 205	-5.72		-5.47			-5.21					
HCC-2998	-5.65		-5.25			-4.45					
HCT-116	-6.39		-4.98			-4.34					
HCT-15	-6.24		-4.75		>	-4.00					
HT29	-5.60				>	-4.00					
KM12	-6.35		-5.14		>	-4.00					
SW-620	-6.26		-4.99		>	-4.13					
CNS Cancer											
SF-268	-6.20		-5.13		>	-4.00					
SF-295	-5.58		-5.01		>	-4.00					
SF-539	-6.39		-5.49			-4.05					
SNB-19	-5.93		-4.52		>	-4.00					
SNB-75	-6.10		-5.29			-4.17					
U251	-6.18		-4.96		>	-4.00					
Melanoma											
LOX IMVI	-6.31		-5.33		>	-4.00					
MALME-3M	-6.12		-5.06		>	-4.00					
M14	-6.36		-5.10		>	-4.00					
MDA-MB-435	-6.64		-6.24		>	-4.00					
SK-MEL-2	-6.25		-5.47		>	-4.00					
SK-MEL-28	-6.01		-5.24			-4.06					
SK-MEL-5	-6.40		-5.66			-4.63					
UACC-257	-5.72		-5.03		>	-4.00					
UACC-62	-5.98		-5.40		>	-4.00					
Ovarian Cancer											
IGROV1	-5.59		-4.66		>	-4.00					
OVCAR-3	-6.35		-5.56		>	-4.00					
OVCAR-4	-5.77		-5.14		>	-4.00					
OVCAR-8	-5.91		-5.34		>	-4.00					
NCI/ADR-RES	-6.31		-4.58		>	-4.00					
SK-OV-3	-6.13		-5.41			-4.50					
Renal Cancer											
786-0	-6.14		-5.09			-4.14					
A498	-5.61		-5.22			-4.69					
CAKI-1	-6.05		-4.39		>	-4.00					
RXF 393	-6.39		-5.76								
SN12C	-6.05		-4.33		>	-4.00					
TK-10	-5.54		-4.91		>	-4.00					
UO-31	-6.28		-5.46		>	-4.00					
Prostate Cancer											
PC-3	-5.86		-5.06		>	-4.00					
DU-145	-5.71		-4.96			-4.41					
Breast Cancer											
MCF7	-6.39		-5.25			-4.21					
MDA-MB-231/ATCC	-5.59		>	-4.00	>	-4.00					
HS 578T	-6.16		-5.21		>	-4.00					
BT-549	-6.02		-5.41		>	-4.00					
T-47D	-5.69		-5.15			-4.32					
MDA-MB-468	-5.93		-5.35		>	-4.00					

National Cancer Institute Developmental Therapeutics Program		NSC :757927/1		Units :Molar		SSPL :0Y1V		EXP. ID :1106NS60	
Mean Graphs		Report Date :August 02, 2011				Test Date :June 06, 2011			
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50			
Leukemia									
CCRF-CEM	-6.56				> -4.00				
HL-60(TB)	-6.51				> -4.00				
K-562	-6.54				> -4.00				
MOLT-4	-6.55				> -4.00				
RPMI-8226	-6.44				> -4.00				
SR	-7.36				> -4.00				
Non-Small Cell Lung Cancer									
A549/ATCC	-6.42				> -4.00				
EKVX	-5.84				> -4.00				
HOP-62	-6.38				> -4.00				
HOP-92	-6.01				> -4.00				
NCI-H226	-5.89				> -4.00				
NCI-H23	-6.50				> -4.00				
NCI-H322M	-6.25				> -4.00				
NCI-H460	-6.45				> -4.00				
NCI-H522	-6.65				> -4.00				
Colon Cancer									
COLO 205	-5.76				-5.23				
HCC-2998	-6.23				-4.83				
HCT-116	-6.45				> -4.00				
HCT-15	-6.42				> -4.00				
HT29	-5.88				> -4.00				
KM12	-6.51				-5.39				
SW-620	-6.33				> -4.00				
CNS Cancer									
SF-268	-6.34				> -4.00				
SF-295	-6.26				> -4.00				
SF-539	-6.34				> -4.00				
SNB-19	-6.17				> -4.00				
SNB-75	-6.42				> -4.00				
U251	-6.41				> -4.00				
Melanoma									
LOX IMVI	-6.46				> -4.00				
MALME-3M	-6.21				> -4.00				
M14	-6.38				> -4.00				
MDA-MB-435	-7.10				> -4.00				
SK-MEL-2	-6.27				> -4.00				
SK-MEL-28	-6.11				-4.48				
SK-MEL-5	-6.46				> -4.00				
UACC-257	-5.84				> -4.00				
UACC-62	-6.32				> -4.00				
Ovarian Cancer									
IGROV1	-6.28				> -4.00				
OVCAR-3	-6.55				-4.52				
OVCAR-4	-6.23				-4.08				
OVCAR-8	-6.34				> -4.00				
NCI/ADR-RES	-6.53				> -4.00				
SK-OV-3	-6.51				-5.08				
Renal Cancer									
786-0	-6.35				-5.40				
A498	-6.21				-5.31				
CAKI-1	-6.42				> -4.00				
RXF 393	-6.64				-5.46				
SN12C	-6.50				> -4.00				
TK-10	-6.19				-4.29				
UO-31	-6.46				> -4.00				
Prostate Cancer									
PC-3	-6.30				> -4.00				
DU-145	-6.33				-5.36				
Breast Cancer									
MCF7	-6.39				> -4.00				
MDA-MB-231/ATCC	-6.13				> -4.00				
HS 578T	-6.46				> -4.00				
BT-549	-6.33				> -4.00				
T-47D	-6.39				-5.21				
MDA-MB-468	-6.63				-5.08				

National Cancer Institute Developmental Therapeutics Program				NSC :763373/1		Units :Molar		SSPL :0Y1V		EXP. ID :1202NS13	
Mean Graphs				Report Date :April 25, 2012						Test Date :February 21, 2012	
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50					
Leukemia											
CCRF-CEM	-6.57				> -4.00						
HL-60(TB)	-6.58		-6.10		> -4.00						
K-562	-6.49		-5.81		> -4.00						
MOLT-4	-6.56		-5.97		> -4.00						
RPMI-8226	-6.60		-6.19		> -4.00						
SR	-7.57		-6.82		> -4.00						
Non-Small Cell Lung Cancer											
A549/ATCC	-6.38		-5.43		> -4.35						
EKVX	-6.00		-5.30		> -4.00						
HOP-62	-6.13		-5.66		> -5.26						
HOP-92	-6.21		-5.49		> -4.20						
NCI-H226	-5.99		-5.35		> -4.00						
NCI-H23	-6.42				> -4.00						
NCI-H322M	-6.30		-5.33		> -4.07						
NCI-H460	-6.48		-5.84		> -4.39						
NCI-H522	-6.76		-6.22		> -5.32						
Colon Cancer											
COLO 205	-5.74		-5.48		> -5.23						
HCC-2998	-5.65		-5.03		> -4.42						
HCT-116	-6.57		-5.95		> -4.00						
HCT-15	-6.40		-4.96		> -4.00						
HT29	-5.83		-5.43		> -5.03						
KM12	-6.52		-5.82		> -4.86						
SW-620	-6.32		-5.45		> -4.19						
CNS Cancer											
SF-268	-6.30		-5.29		> -4.12						
SF-295	-5.70		-5.10		> -4.00						
SF-539	-6.26		-5.44		> -4.00						
SNB-19	-5.99		-5.06		> -4.43						
SNB-75	-6.51		-5.99		> -5.26						
U251	-6.35		-5.44		> -4.14						
Melanoma											
LOX IMVI	-6.35		-5.72		> -4.00						
MALME-3M	-5.98		-5.44		> -5.24						
M14	-6.58		-5.95		> -4.00						
MDA-MB-435	-7.13		-6.45		> -4.49						
SK-MEL-28	-6.16		-5.23		> -5.41						
SK-MEL-5	-6.53		-5.91		> -4.32						
UACC-257	-6.09		-5.35		> -4.00						
UACC-62	-6.34		-5.65		> -4.00						
Ovarian Cancer											
IGROV1	-6.25		-5.50		> -4.00						
OVCAR-3	-6.46		-5.84		> -5.03						
OVCAR-4	-6.16		-5.23		> -4.27						
OVCAR-5	-5.57		-5.17		> -4.00						
OVCAR-8	-6.33		-5.58		> -4.23						
NCI/ADR-RES	-6.40				> -4.00						
SK-OV-3	-6.42		-5.84		> -5.23						
Renal Cancer											
786-0	-6.42		-5.71		> -5.19						
A498	-5.92		-5.36		> -4.74						
ACHN	-6.39		-4.92		> -4.00						
CAKI-1	-6.41		-5.33		> -4.00						
RXF 393	-6.46		-5.95		> -5.35						
SN12C	-6.35		> -4.00		> -4.00						
TK-10	-6.21		-5.36		> -4.46						
UO-31	-6.59		-5.84		> -4.00						
Prostate Cancer											
PC-3	-6.44		-5.73		> -4.47						
DU-145	-6.38		-5.68		> -4.89						
Breast Cancer											
MCF7	-6.39		-5.67		> -4.71						
MDA-MB-231/ATCC	-5.92		-4.57		> -4.00						
HS 578T	-6.56		-6.16		> -4.00						
BT-549	-6.51		-5.63		> -4.00						
T-47D	-6.00		-5.60		> -5.20						
MID	-6.33		-5.57		-4.41						
Delta	1.24		1.25		1						
Range	2.0		2.82		1.41						

National Cancer Institute Developmental Therapeutics Program		NSC :757928/1		Units :Molar		SSPL :0Y1V		EXP. ID :1106NS60	
Mean Graphs		Report Date :August 02, 2011				Test Date :June 06, 2011			
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50			
Leukemia									
CCRF-CEM	-6.08		-5.21		> -4.00				
HL-60(TB)	-5.68		-5.22		> -4.00				
K-562	-5.84		> -4.00		> -4.00				
MOLT-4	-5.91		> -4.00		> -4.00				
RPMI-8226	-5.69		-5.22		> -4.00				
SR	-6.47				> -4.00				
Non-Small Cell Lung Cancer									
A549/ATCC	-5.52		-4.34		> -4.00				
EKVX	-5.33		> -4.00		> -4.00				
HOP-62	-5.47		-4.79		> -4.00				
HOP-92	-5.42		-5.02		> -4.00				
NCI-H226	-5.48		-4.25		> -4.00				
NCI-H23	-5.57		-4.77		> -4.00				
NCI-H322M	-5.46		-4.40		> -4.00				
NCI-H460	-5.52		> -4.00		> -4.00				
NCI-H522	-5.86		-5.20		> -4.00				
Colon Cancer									
COLO 205	-5.64		-5.33		-5.03				
HCC-2998	-5.61		-5.20		> -4.00				
HCT-116	-5.51		> -4.00		> -4.00				
HCT-15	-5.55		> -4.00		> -4.00				
HT29	-5.62				> -4.00				
KM12	-5.65		> -4.00		> -4.00				
SW-620	-5.44		> -4.00		> -4.00				
CNS Cancer									
SF-268	-5.61		> -4.00		> -4.00				
SF-295	-5.51		-4.46		> -4.00				
SF-539	-5.59				> -4.00				
SNB-19	-5.57		> -4.00		> -4.00				
SNB-75	-5.55		-4.81		> -4.00				
U251	-5.58		> -4.00		> -4.00				
Melanoma									
LOX IMVI	-5.61				> -4.00				
MALME-3M	-5.49		-4.36		> -4.00				
M14	-5.51		> -4.00		> -4.00				
MDA-MB-435	-5.16		-5.09		> -4.00				
SK-MEL-2	-5.63		-5.23		> -4.00				
SK-MEL-28	-5.59		-5.06		> -4.00				
SK-MEL-5	-5.59		-4.88		> -4.00				
UACC-257	-5.47		-4.40		> -4.00				
UACC-62	-5.58		-5.06		> -4.00				
Ovarian Cancer									
IGROV1	-5.39		> -4.00		> -4.00				
OVCAR-3	-5.60				> -4.00				
OVCAR-4	-5.44		-4.64		> -4.00				
OVCAR-8	-5.56		-4.91		> -4.00				
NCI/ADR-RES	-5.43		> -4.00		> -4.00				
SK-OV-3	-5.65		-5.28		> -4.00				
Renal Cancer									
786-0	-5.50		> -4.00		> -4.00				
A498	-5.52		-5.06		> -4.00				
CAKI-1	-5.66		> -4.00		> -4.00				
RXF 393	-5.78		-5.40		> -4.00				
SN12C	-5.65		> -4.00		> -4.00				
TK-10	-5.41		-4.48		> -4.00				
UO-31	-5.63		-4.47		> -4.00				
Prostate Cancer									
PC-3	-5.52		-4.17		> -4.00				
DU-145	-5.48		-4.46		> -4.00				
Breast Cancer									
MCF7	-5.52		-4.89		> -4.00				
MDA-MB-231/ATCC	-5.44		> -4.00		> -4.00				
HS 578T	-5.56		-4.31		> -4.00				
BT-549	-5.67		-5.11		> -4.00				
T-47D	-5.53		-4.88		-4.02				
MDA-MB-468	-5.65		-5.24		> -4.00				
MID	-5.6		-4.56		-4.02				
Delta	0.87		0.84		1.01				
Range	1.14		1.4		1.03				
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National Cancer Institute Developmental Therapeutics Program			NSC :763374/1		Units :Molar		SSPL :0Y1V		EXP. ID :1202NS13	
Mean Graphs			Report Date :April 25, 2012				Test Date :February 21, 2012			
Panel/Cell Line	Log ₁₀ GI50	GI50	Log ₁₀ TGI	TGI	Log ₁₀ LC50	LC50				
Leukemia										
CCRF-CEM	-5.68		-5.21		> -4.00					
HL-60(TB)	-5.43		-4.92		> -4.00					
K-562	-5.44		-4.45		> -4.00					
MOLT-4	-5.59		-4.93		> -4.00					
RPMI-8226	-5.68		-5.25		> -4.00					
SR	-5.72		-5.21		> -4.00					
Non-Small Cell Lung Cancer										
A549/ATCC	-5.28		-4.56		> -4.00					
EKVX	-5.41		-4.14		> -4.00					
HOP-62	-5.39		-4.76		> -4.09					
HOP-92	-5.64		-5.03		> -4.00					
NCI-H226	-5.46		-4.65		> -4.00					
NCI-H23	-5.63				> -4.00					
NCI-H322M	-5.33		-4.09		> -4.00					
NCI-H460	-5.51		-4.73		> -4.00					
NCI-H522	-5.59		-5.10		> -4.00					
Colon Cancer										
COLO 205	-5.69		-5.40		-5.10					
HCC-2998	-5.45		-4.85		-4.03					
HCT-116	-5.61		-4.91		> -4.00					
HCT-15	-5.26		-4.00		> -4.00					
HT29	-5.89		-5.57		-5.26					
KM12	-5.46		-4.85		> -4.00					
SW-620	-5.50		-4.78		> -4.00					
CNS Cancer										
SF-268	-5.34		> -4.00		> -4.00					
SF-295	-5.56		-5.01		> -4.00					
SF-539	-5.41		> -4.00		> -4.00					
SNB-19	-5.47		> -4.00		> -4.00					
SNB-75	-5.77		-4.92		> -4.00					
U251	-5.50		-4.87		-4.18					
Melanoma										
LOX IMVI	-5.50		> -4.00		> -4.00					
MALME-3M	-5.41		> -4.00		> -4.00					
M14	-5.51		-4.81		> -4.00					
MDA-MB-435	-5.57		-4.74		> -4.00					
SK-MEL-2	-5.54		-5.17		> -4.00					
SK-MEL-28	-5.52		-4.88		-4.04					
SK-MEL-5	-5.43		-4.44		> -4.00					
UACC-257	-5.47		-4.75		> -4.00					
UACC-62	-5.47		-4.36		> -4.00					
Ovarian Cancer										
IGROV1	-5.36		> -4.00		> -4.00					
OVCAR-3	-5.42		-4.48		> -4.00					
OVCAR-4	-5.61		-4.77		> -4.00					
OVCAR-5	-5.00		-4.55		-4.10					
OVCAR-8	-5.32		-4.90		> -4.00					
NCI/ADR-RES	-4.78		> -4.00		> -4.00					
SK-OV-3	-5.63		-5.31		> -4.00					
Renal Cancer										
786-0	-5.56		-4.48		> -4.00					
A498	-5.51		-4.60		> -4.00					
ACHN	-5.05		> -4.00		> -4.00					
CAKI-1	-5.47		> -4.00		> -4.00					
RXP 393	-5.65		-5.31		-4.56					
SN12C	-5.36		> -4.00		> -4.00					
TK-10	-5.21		-4.44		> -4.00					
UO-31	-5.43		-4.23		> -4.00					
Prostate Cancer										
PC-3	-5.49		-4.73		> -4.00					
DU-145	-5.31		-4.45		> -4.00					
Breast Cancer										
MCF7	-5.53		-4.94		-4.18					
MDA-MB-231/ATCC	-5.45		> -4.00		> -4.00					
HS 578T	-5.74		-5.17		> -4.00					
BT-549	-5.69		-5.09		> -4.00					
T-47D	-5.19		-4.43		> -4.00					
MID	-5.48		-4.64		-4.06					
Delta	0.41		0.93		1.2					
Range	1.11		1.57		1.26					