

# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY AZT

Raw Data (AZT)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	20793.0	12732.0	2430.0	708.0	662.0	644.0	726.0
SAMPLE 2	19296.0	16124.0	3781.0	700.0	782.0	650.0	732.0
SAMPLE 3	20958.5	15009.0	3463.0	913.0	790.0	768.0	618.0

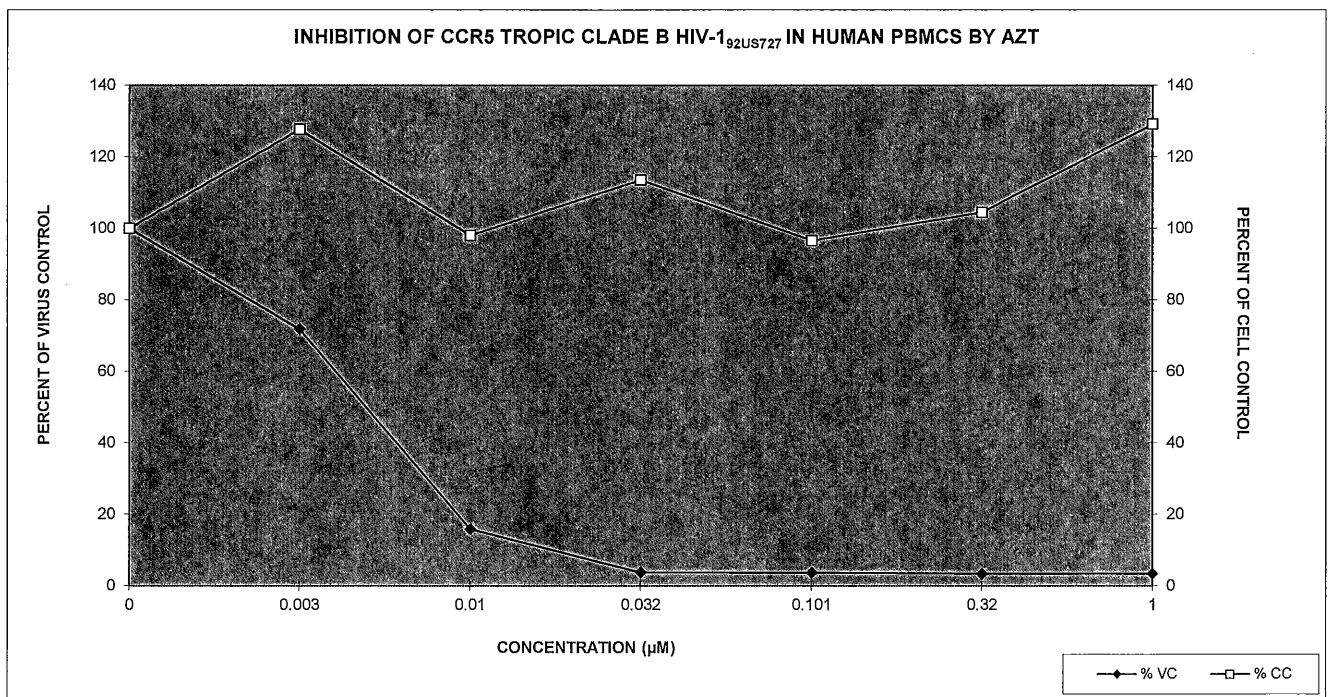
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	1.8868	2.2804	1.8728	2.1345	1.7426	1.9078	2.2360
SAMPLE 2	1.5749	2.2764	1.8314	2.0855	1.7930	1.8467	2.2445
SAMPLE 3	1.9076	2.2962	1.5579	1.8750	1.6504	1.8526	2.4537

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: AZT

	25%	50%	95%
EC (µM)	<0.00300	0.00480	0.0285
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>333.33	>208.33	>35.09

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20349.2	915.815256	100.00	1.790	0.186399	100.00
0.003	14621.7	1728.85405	71.85	2.284	0.01047	127.63
0.01	3224.7	706.330187	15.85	1.754	0.171113	98.00
0.032	773.7	120.732487	3.80	2.032	0.137872	113.52
0.101	744.7	71.7030915	3.66	1.729	0.072314	96.59
0.32	687.3	69.923768	3.38	1.869	0.033702	104.43
1	692.0	64.1560597	3.40	2.311	0.123309	129.15



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY Dextran Sulfate

Raw Data (Dextran Sulfate)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	20793.0	28346.0	22503.0	25846.0	26668.0	3751.0	554.0
SAMPLE 2	19296.0	17130.0	19683.0	25347.0	26263.0	5116.0	546.0
SAMPLE 3	20958.5	20214.0	20414.0	21247.0	27979.0	2161.0	458.0

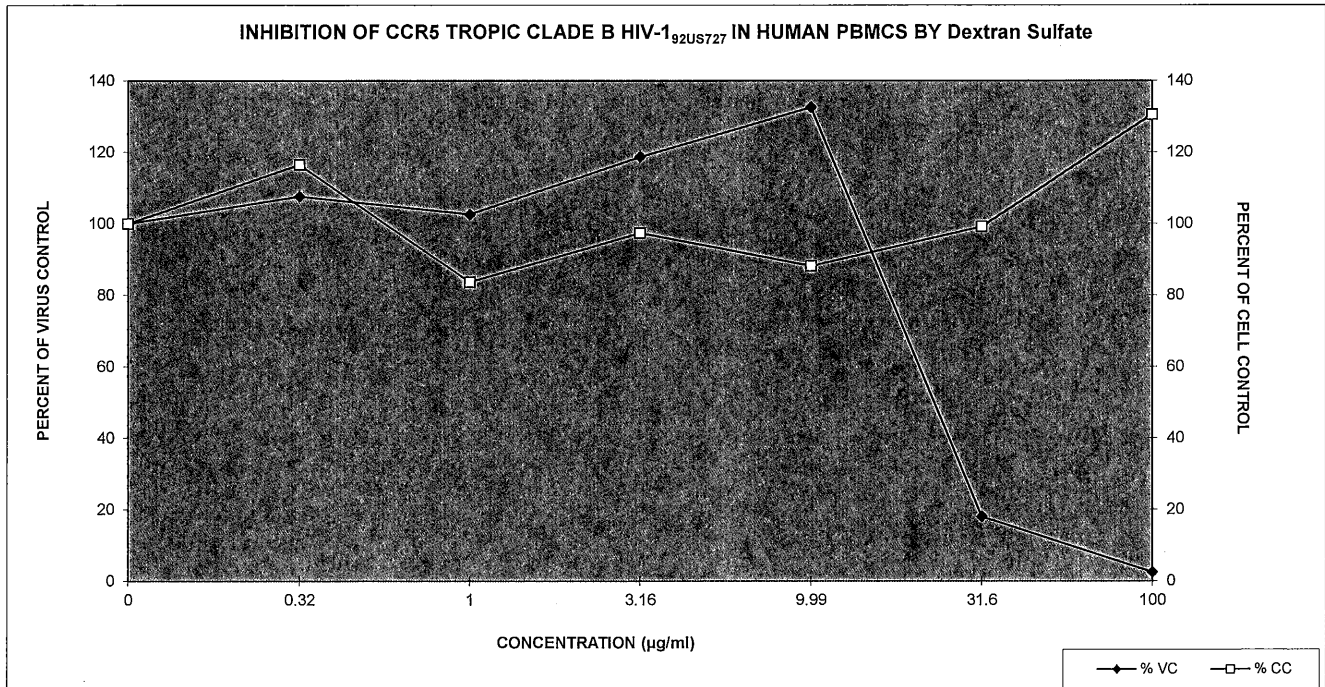
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8868	2.2763	1.5557	1.5081	1.5941	1.8016	2.2565
SAMPLE 2	1.5749	2.1174	1.4595	1.7249	1.6510	1.8496	2.3334
SAMPLE 3	1.9076	1.8585	1.4758	1.9957	1.4865	1.6752	2.4186

Virus:	HIV-1	Cladé:	B	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Dextran Sulfate

	25%	50%	95%
EC (µg/ml)	17.8	22.9	83.4
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>5.62	>4.37	>1.20

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20349.2	915.815256	100.00	1.790	0.186399	100.00
0.32	21896.7	5794.2376	107.60	2.084	0.210885	116.44
1	20866.7	1463.48226	102.54	1.497	0.051485	83.64
3.16	24146.7	2523.54915	118.66	1.743	0.244298	97.38
9.99	26970.0	896.976588	132.54	1.577	0.083542	88.12
31.6	3676.0	1478.92698	18.06	1.775	0.090089	99.20
100	519.3	53.2666249	2.55	2.336	0.081085	130.53



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY AZT

Raw Data (AZT)

RT VALUES (CPM)							
Conc (µM)	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	46352.5	28224.0	19737.0	6176.0	1657.0	1029.0	590.0
SAMPLE 2	49540.0	44582.0	27183.0	9451.0	2498.0	832.0	526.0
SAMPLE 3	45188.5	38448.0	25741.0	12366.0	1995.0	844.0	460.0

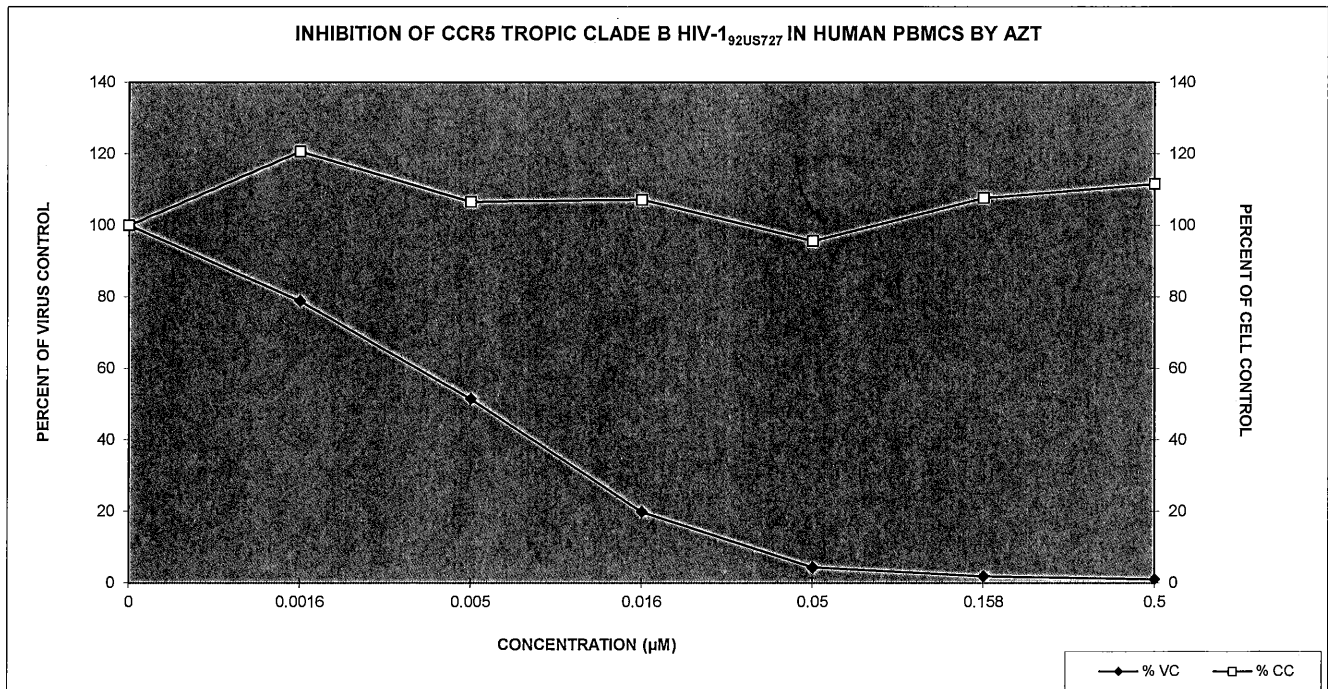
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	2.0226	2.4170	2.0546	2.1271	1.9524	1.9509	2.1987
SAMPLE 2	1.5929	2.3465	1.9387	1.9568	1.7576	2.2442	2.0784
SAMPLE 3	2.1596	2.2034	2.1598	2.1022	1.8123	2.0207	2.1648

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: AZT

	25%	50%	95%
EC (µM)	0.00188	0.00528	0.0477
TC (µM)	>0.5	>0.5	>0.5
Therapeutic Index (TI)	>265.96	>94.70	>10.48

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	47027.0	2252.79843	100.00	1.925	0.295708	100.00
0.0016	37084.7	8263.77936	78.86	2.322	0.108837	120.64
0.005	24220.3	3949.05677	51.50	2.051	0.110593	106.55
0.016	9331.0	3096.74426	19.84	2.062	0.091981	107.12
0.05	2050.0	423.189083	4.36	1.841	0.100472	95.62
0.158	901.7	110.437011	1.92	2.072	0.153215	107.63
0.5	525.3	65.0025641	1.12	2.147	0.06203	111.55



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY Dextran Sulfate

Raw Data (Dextran Sulfate)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	46352.5	46556.0	55286.0	51291.0	53583.0	46019.0	104.0
SAMPLE 2	49540.0	55333.0	51310.0	49250.0	61193.0	51364.0	404.0
SAMPLE 3	45188.5	49687.0	53152.0	46332.0	50282.0	52882.0	574.0

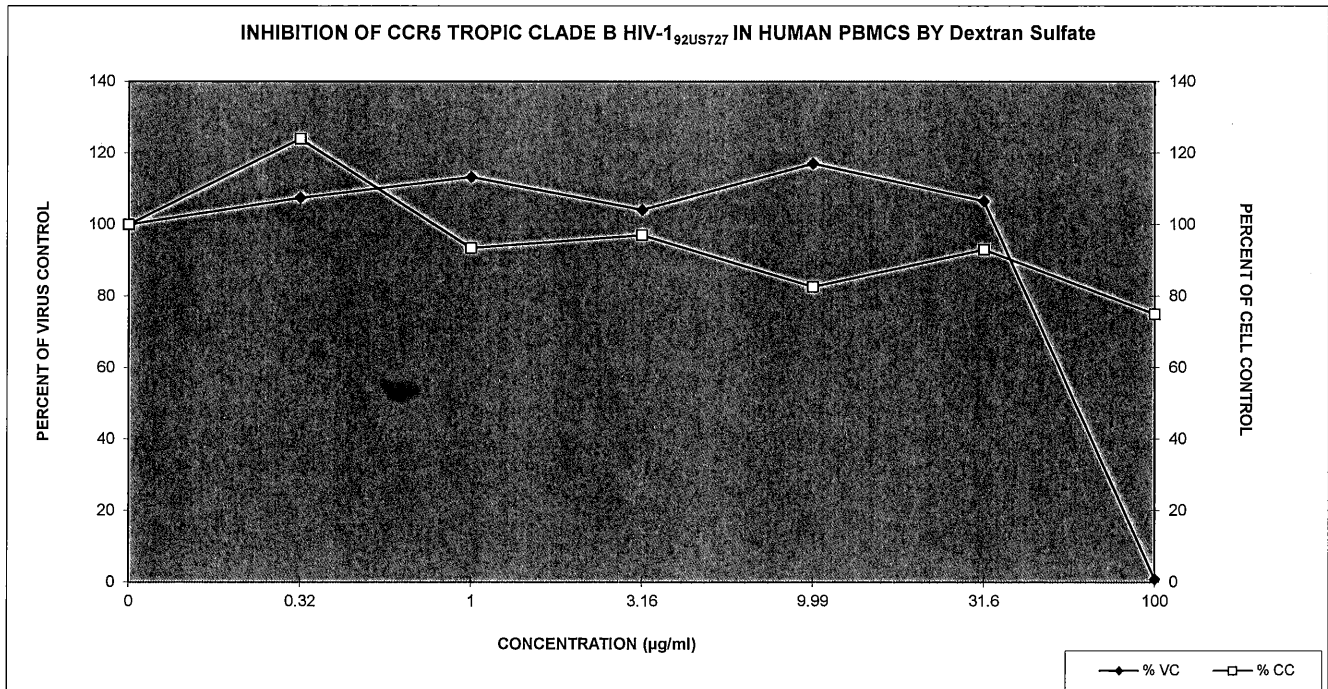
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.0226	2.3204	1.9530	1.9821	1.5547	1.8643	1.8830
SAMPLE 2	1.5929	2.4795	1.8265	1.8088	1.6532	1.9086	1.2306
SAMPLE 3	2.1596	2.3585	1.6160	1.8137	1.5615	1.5983	1.2156

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Dextran Sulfate

	25%	50%	95%
EC (µg/ml)	44.5	58.5	95.5
TC (µg/ml)	99.8	>100	>100
Therapeutic Index (TI)	2.24	>1.71	>1.05

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	47027.0	2252.79843	100.00	1.925	0.295708	100.00
0.32	50525.3	4448.14954	107.44	2.386	0.083072	123.95
1	53249.3	1989.78625	113.23	1.799	0.170236	93.43
3.16	48957.7	2492.39129	104.11	1.868	0.098671	97.05
9.99	55019.3	5595.51341	117.00	1.590	0.055011	82.59
31.6	50088.3	3604.95303	106.51	1.790	0.167832	93.01
100	360.7	237.97759	0.77	1.443	0.381067	74.96



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	39370.0	47842.0	30448.0	18994.0	981.0	494.0	420.0
SAMPLE 2	38721.5	38573.0	39247.0	11734.0	1227.0	402.0	396.0
SAMPLE 3	41318.5	46490.0	31233.0	15435.0	3515.0	376.0	332.0

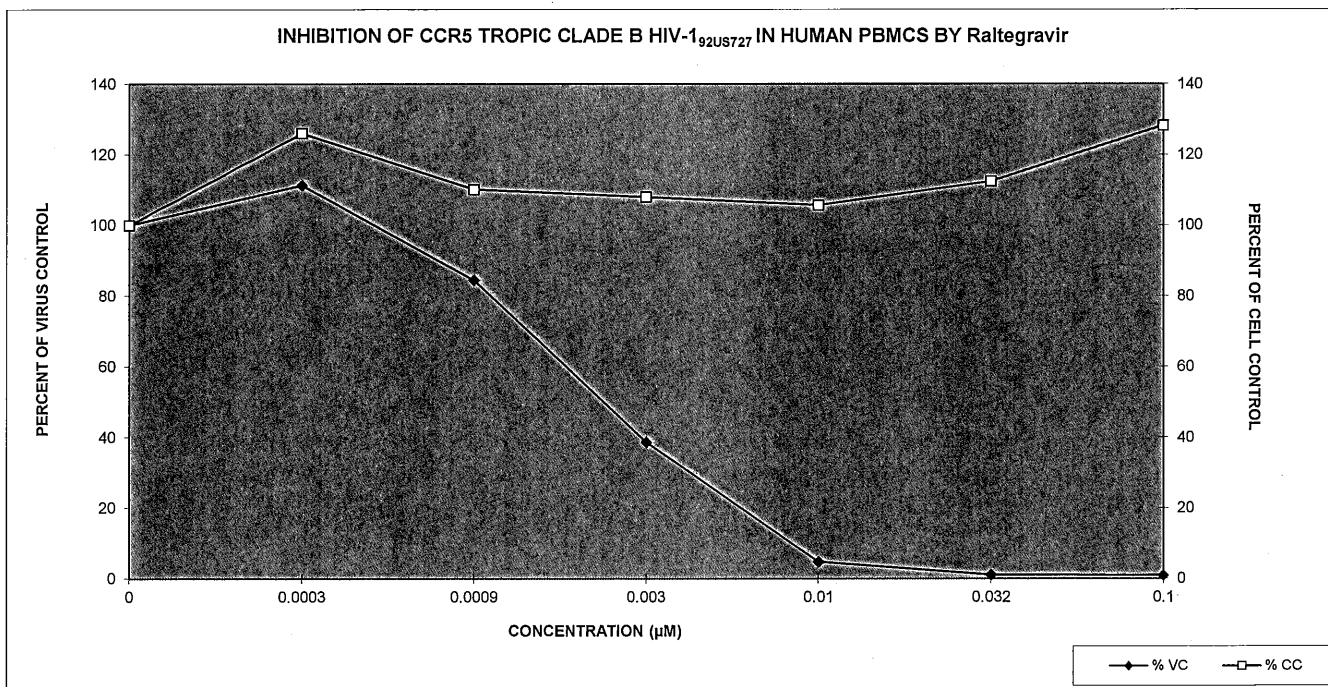
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	1.8868	2.3013	2.0467	2.1105	2.0304	2.1296	2.2360
SAMPLE 2	1.5749	2.2411	1.8846	1.7637	1.8576	1.7993	2.3072
SAMPLE 3	1.9076	2.2273	1.9827	1.9230	1.7860	2.1064	2.3443

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	0.00116	0.00223	0.00993
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>86.21	>44.84	>10.07

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	39803.3	1351.6418	100.00	1.790	0.18639922	100.00
0.0003	44301.7	5007.0143	111.30	2.257	0.03934988	126.08
0.0009	33642.7	4869.3398	84.52	1.971	0.0816456	110.15
0.003	15387.7	3630.2314	38.66	1.932	0.17359098	107.97
0.01	1907.7	1397.4152	4.79	1.891	0.12564352	105.68
0.032	424.0	62	1.07	2.012	0.18436682	112.40
0.1	382.7	45.489926	0.96	2.296	0.05503747	128.28



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	39370.0	18174.0	11936.0	506.0	468.0	374.0	420.0
SAMPLE 2	38721.5	25800.0	10908.0	514.0	390.0	372.0	402.0
SAMPLE 3	41318.5	30411.0	14738.0	492.0	410.0	404.0	376.0

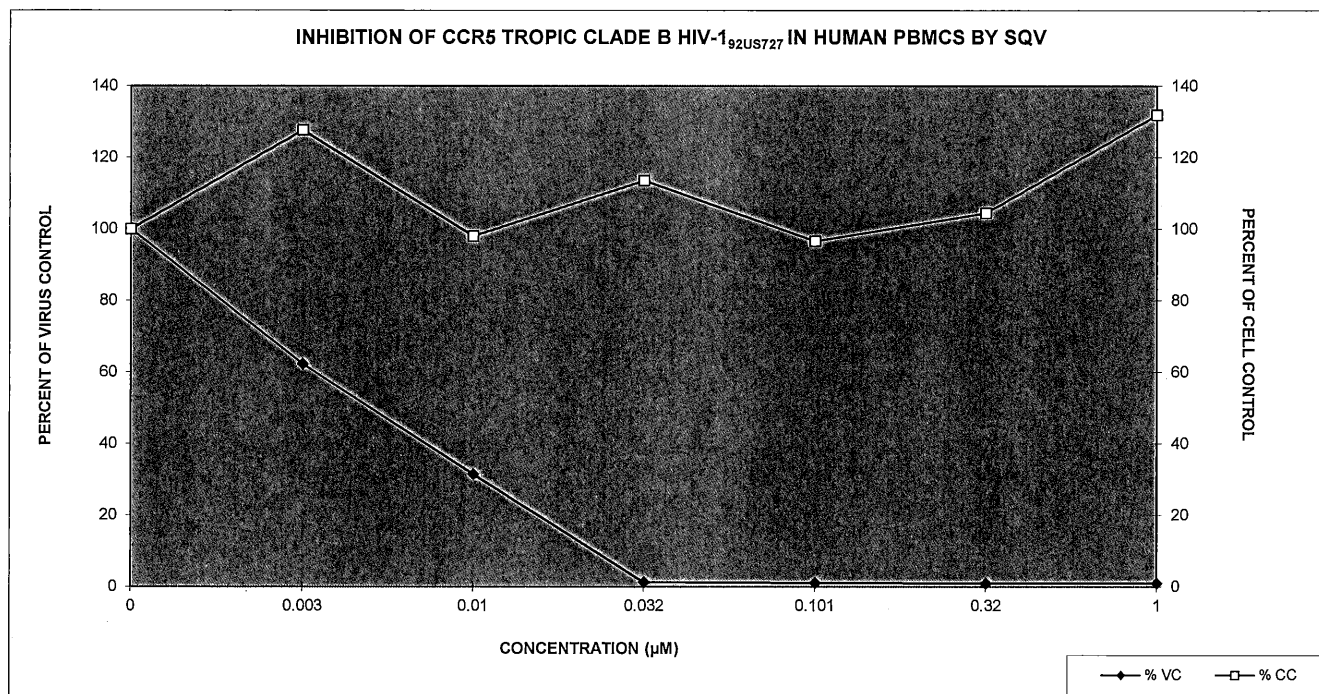
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	1.8868	2.2804	1.8728	2.1345	1.7426	1.9078	2.3829
SAMPLE 2	1.5749	2.2764	1.8314	2.0855	1.7930	1.8467	2.2445
SAMPLE 3	1.9076	2.2962	1.5579	1.8750	1.6504	1.8526	2.4537

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	<0.00300	0.00485	0.0277
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>333.33	>206.19	>36.10

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	39803.3	1351.64181	100.00	1.790	0.186399	100.00
0.003	24795.0	6180.09393	62.29	2.284	0.01047	127.63
0.01	12527.3	1982.29194	31.47	1.754	0.171113	98.00
0.032	504.0	11.1355287	1.27	2.032	0.137872	113.52
0.101	422.7	40.5133723	1.06	1.729	0.072314	96.59
0.32	383.3	17.9257729	0.96	1.869	0.033702	104.43
1	399.3	22.12088	1.00	2.360	0.106405	131.88



# INHIBITION OF CCR5 TROPIC CLADE B HIV-1<sub>92US727</sub> IN HUMAN PBMCs BY IDV

Raw Data (IDV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE1	39370.0	48691.0	35105.0	2598.0	388.0	404.0	406.0
SAMPLE2	38721.5	48278.0	17227.0	1623.0	638.0	472.0	370.0
SAMPLE3	41318.5	56106.0	25594.0	846.0	436.0	382.0	358.0

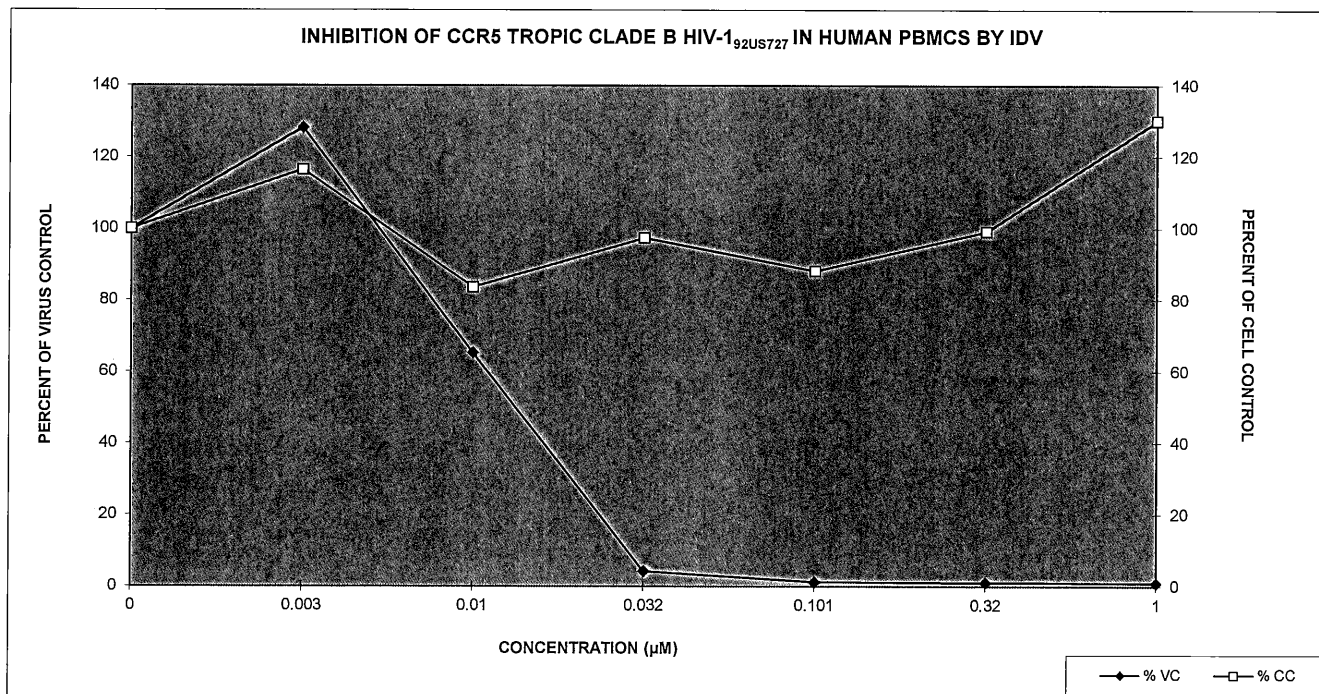
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE1	1.8868	2.2763	1.5557	1.5081	1.5941	1.8016	2.2360
SAMPLE2	1.5749	2.1174	1.4595	1.7249	1.6510	1.8496	2.3334
SAMPLE3	1.9076	1.8585	1.4758	1.9957	1.4865	1.6752	2.4186

Virus:	HIV-1	Clade:	B	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	92US727	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	CCR5	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: IDV

	25%	50%	95%
EC (µM)	0.00830	0.0134	0.0315
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>120.48	>74.63	>31.75

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	39803.3	1351.64181	100.00	1.790	0.186399	100.00
0.003	51025.0	4405.11782	128.19	2.084	0.210885	116.44
0.01	25975.3	8945.09823	65.26	1.497	0.051485	83.64
0.032	1689.0	877.862746	4.24	1.743	0.244298	97.38
0.101	487.3	132.670017	1.22	1.577	0.083542	88.12
0.32	419.3	46.9183688	1.05	1.775	0.090089	99.20
1	378.0	24.979992	0.95	2.329	0.091368	130.15



# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	4876.5	5537.0	5433.0	4478.0	2842.0	788.0	648.0
SAMPLE 2	5329.5	5553.0	6458.0	4273.0	4025.0	1031.0	706.0
SAMPLE 3	5812.5	5204.0	6875.0	4896.0	4099.0	730.0	620.0

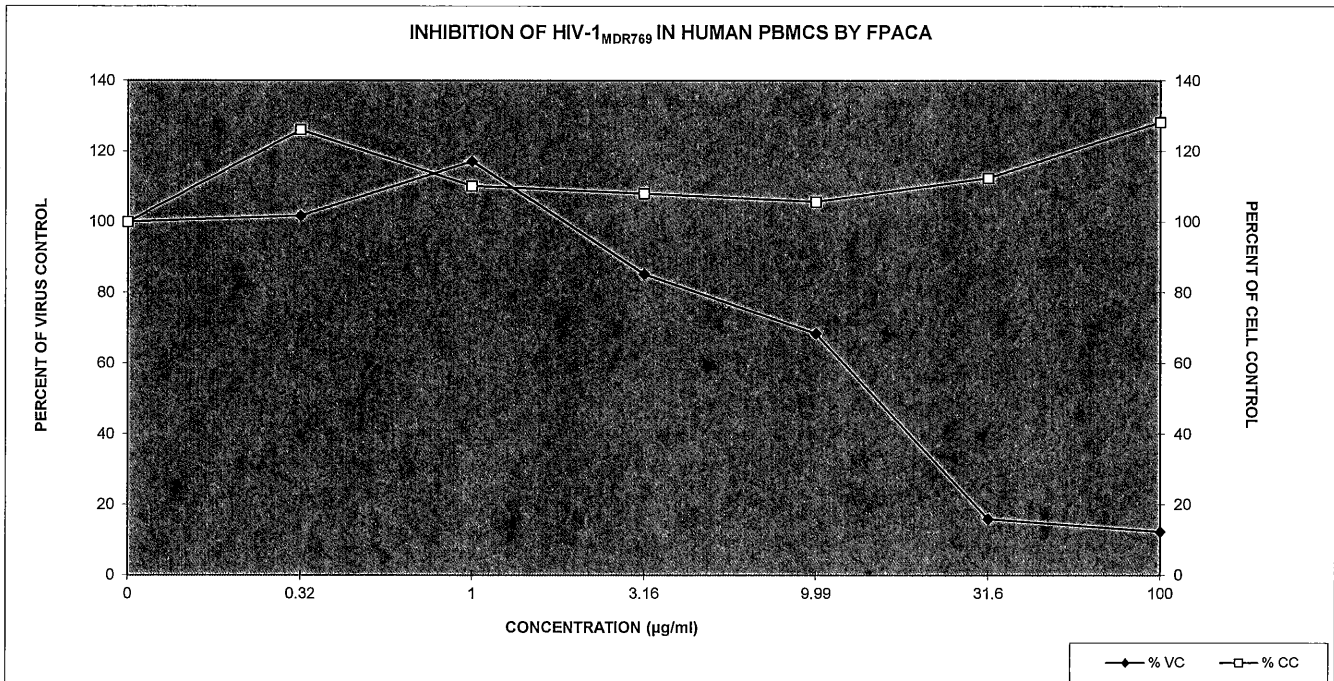
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8868	2.3013	2.0467	2.1105	2.0304	2.1296	2.2360
SAMPLE 2	1.5749	2.2411	1.8846	1.7637	1.8576	1.7993	2.3072
SAMPLE 3	1.9076	2.2273	1.9827	1.9230	1.7860	2.1064	2.3443

Virus:	HIV-1	Clade:	unknown	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	MDR769	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	unknown	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	6.37	15.0	>100
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>15.70	>6.67	

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	5339.5	468.08012	100.00	1.790	0.18639922	100.00
0.32	5431.3	197.03891	101.72	2.257	0.03934988	126.08
1	6255.3	742.05548	117.15	1.971	0.0816456	110.15
3.16	4549.0	317.51063	85.20	1.932	0.17359098	107.97
9.99	3655.3	705.33845	68.46	1.891	0.12564352	105.68
31.6	849.7	159.6945	15.91	2.012	0.18436682	112.40
100	658.0	43.863424	12.32	2.296	0.05503747	128.28





# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCs BY Dextran Sulfate

Raw Data (Dextran Sulfate)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	4876.5	6955.0	6290.0	7975.0	4536.0	2063.0	670.0
SAMPLE 2	5329.5	5176.0	7692.0	5261.0	3963.0	1097.0	600.0
SAMPLE 3	5812.5	6026.0	5639.0	5729.0	4556.0	762.0	608.0

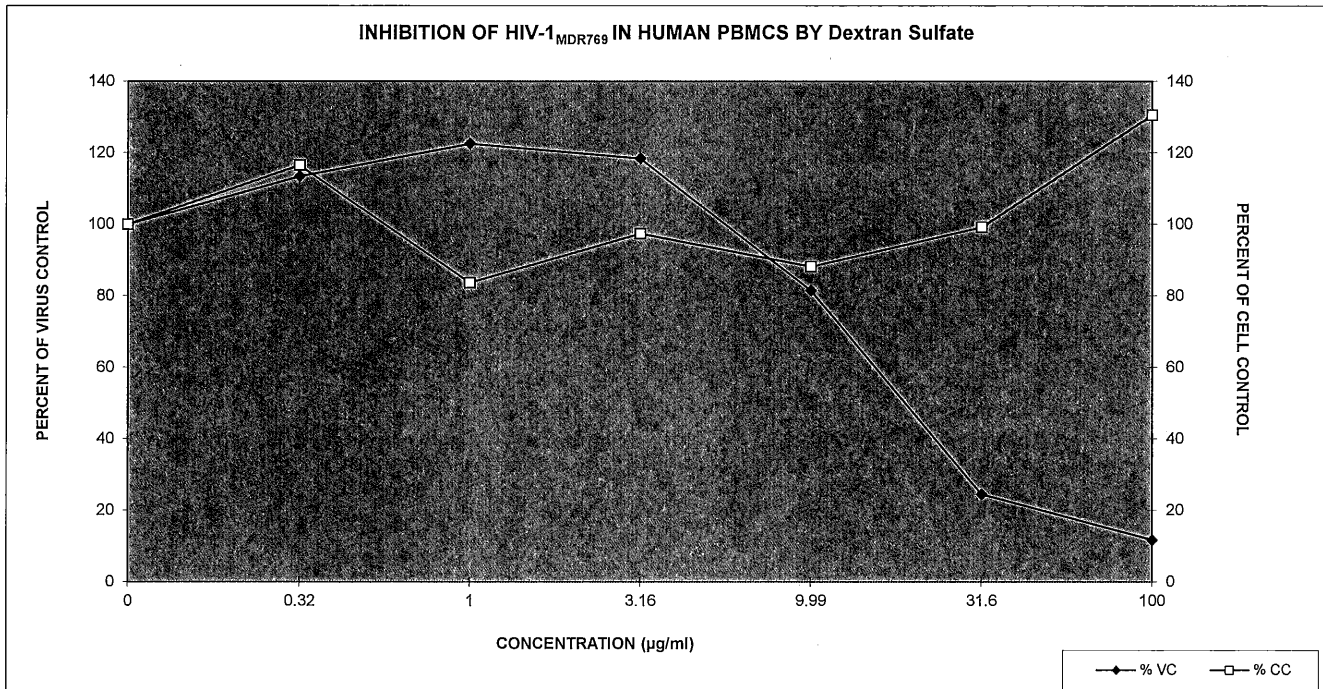
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8868	2.2763	1.5557	1.5081	1.5941	1.8016	2.2565
SAMPLE 2	1.5749	2.1174	1.4595	1.7249	1.6510	1.8496	2.3334
SAMPLE 3	1.9076	1.8585	1.4758	1.9957	1.4865	1.6752	2.4186

Virus:	HIV-1	Clade:	unknown	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	MDR769	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	unknown	Project #:	306-01-04	Client:	CJSC		

**Antiviral Compound: Dextran Sulfate**

	25%	50%	95%
EC (µg/ml)	11.4	18.9	>100
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>8.77	>5.29	1

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	5339.5	468.080121	100.00	1.790	0.186399	100.00
0.32	6052.3	889.792298	113.35	2.084	0.210885	116.44
1	6540.3	1049.14362	122.49	1.497	0.051485	83.64
3.16	6321.7	1450.82367	118.39	1.743	0.244298	97.38
9.99	4351.7	336.743721	81.50	1.577	0.083542	88.12
31.6	1307.3	675.522267	24.48	1.775	0.090089	99.20
100	626.0	38.3144881	11.72	2.336	0.081085	130.53



# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCs BY AZT

Raw Data (AZT)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	4876.5	4303.0	7432.0	3587.0	3753.0	1369.0	2063.0
SAMPLE 2	5329.5	5944.0	6943.0	4400.0	4742.0	2872.0	1601.0
SAMPLE 3	5812.5	3703.0	4083.0	4462.0	3284.0	3659.0	1595.0

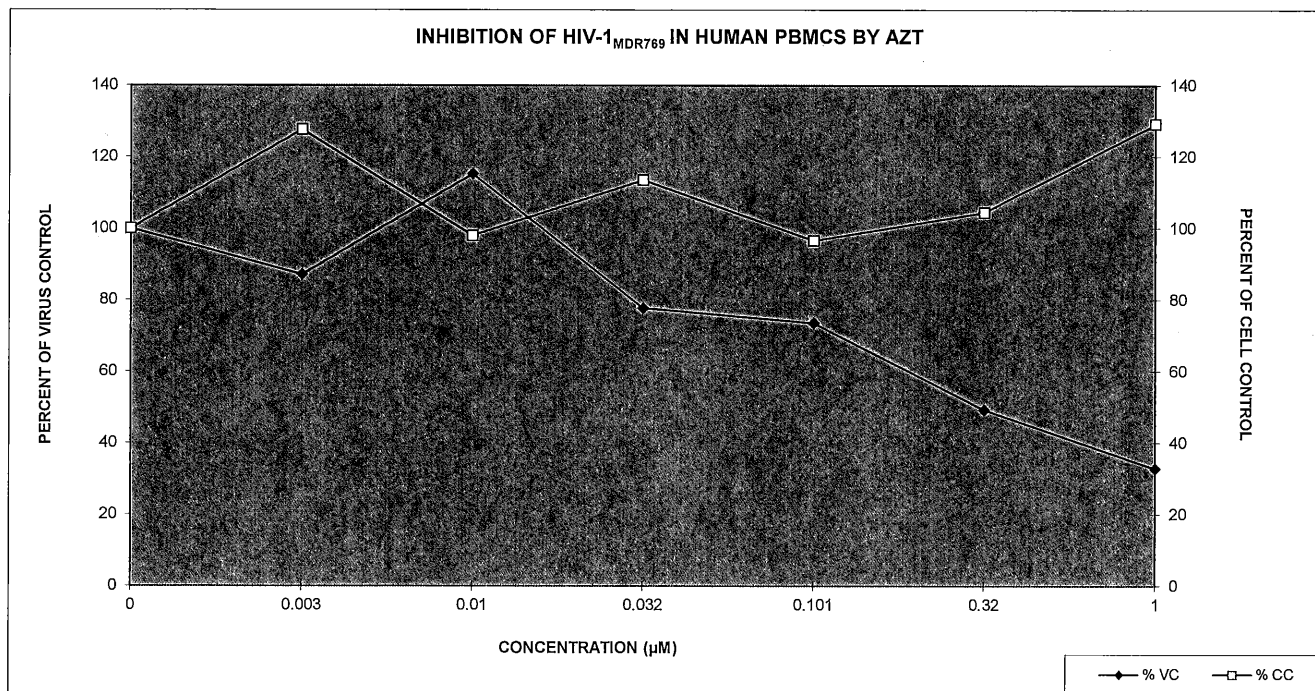
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	1.8868	2.2804	1.8728	2.1345	1.7426	1.9078	2.2360
SAMPLE 2	1.5749	2.2764	1.8314	2.0855	1.7930	1.8467	2.2445
SAMPLE 3	1.9076	2.2962	1.5579	1.8750	1.6504	1.8526	2.4537

Virus:	HIV-1	Clade:	unknown	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	MDR769	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	unknown	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: AZT

	25%	50%	95%
EC (µM)	0.0675	0.310	>1.0
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>14.81	>3.23	1

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	5339.5	468.080121	100.00	1.790	0.186399	100.00
0.003	4650.0	1160.09784	87.09	2.284	0.01047	127.63
0.01	6152.7	1808.98323	115.23	1.754	0.171113	98.00
0.032	4149.7	488.26871	77.72	2.032	0.137872	113.52
0.101	3926.3	744.294521	73.53	1.729	0.072314	96.59
0.32	2633.3	1163.50605	49.32	1.869	0.033702	104.43
1	1753.0	268.484636	32.83	2.311	0.123309	129.15



# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	14359.0	16157.0	13432.0	10754.0	7949.0	904.0	342.0
SAMPLE 2	16536.5	13927.0	12149.0	12295.0	7221.0	880.0	302.0
SAMPLE 3	16095.0	15381.0	12494.0	11652.0	6763.0	5815.0	326.0

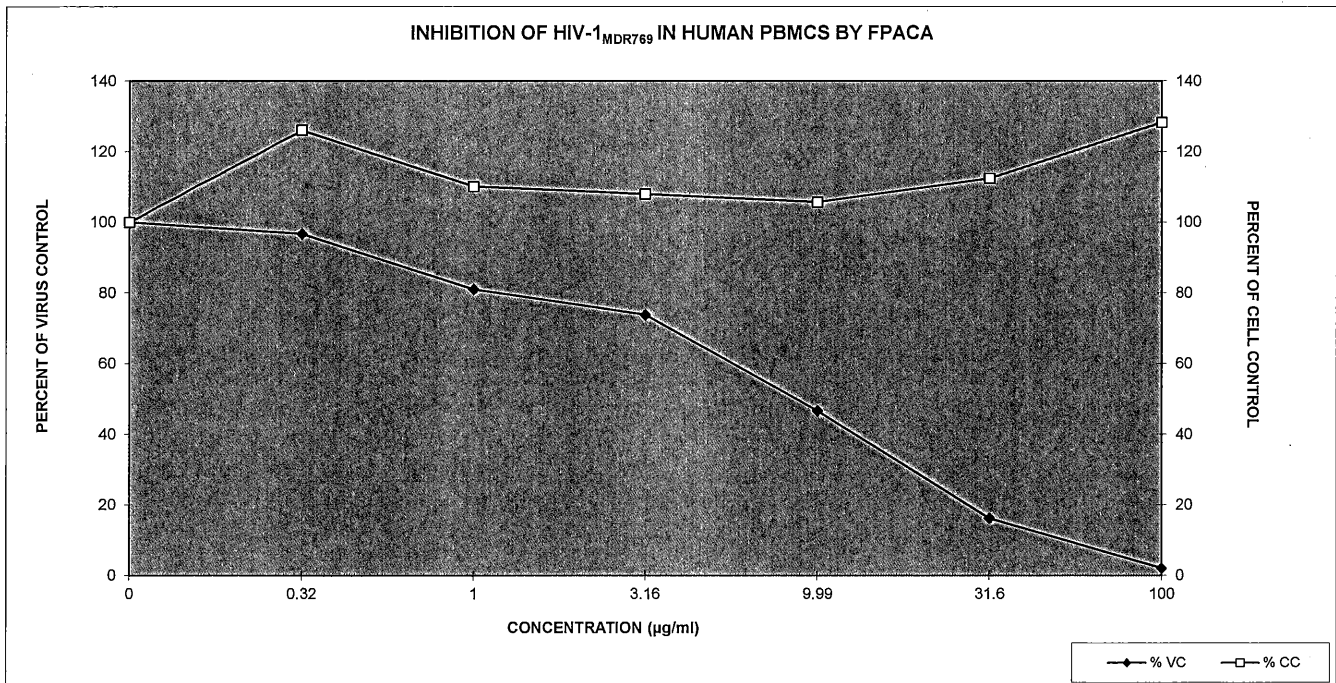
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8868	2.3013	2.0467	2.1105	2.0304	2.1296	2.2360
SAMPLE 2	1.5749	2.2411	1.8846	1.7637	1.8576	1.7993	2.3072
SAMPLE 3	1.9076	2.2273	1.9827	1.9230	1.7860	2.1064	2.3443

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	MDR769	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	2.63	8.68	78.7
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>38.02	>11.52	>1.27

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	15663.5	1151.0955	100.00	1.790	0.18639922	100.00
0.32	15155.0	1132.0477	96.75	2.257	0.03934988	126.08
1	12691.7	663.94754	81.03	1.971	0.0816456	110.15
3.16	11567.0	774.0084	73.85	1.932	0.17359098	107.97
9.99	7311.0	598.10033	46.68	1.891	0.12564352	105.68
31.6	2533.0	2842.3207	16.17	2.012	0.18436682	112.40
100	323.3	20.132892	2.06	2.296	0.05503747	128.28



# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCS BY AZT

Raw Data (AZT)

RT VALUES (CPM)							
Conc (µM)	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	14359.0	15232.0	15245.0	14032.0	11595.0	12337.0	10222.0
SAMPLE 2	16536.5	18553.0	18194.0	12897.0	9972.0	11182.0	10886.0
SAMPLE 3	16095.0	16544.0	13366.0	13801.0	8553.0	13432.0	9713.0

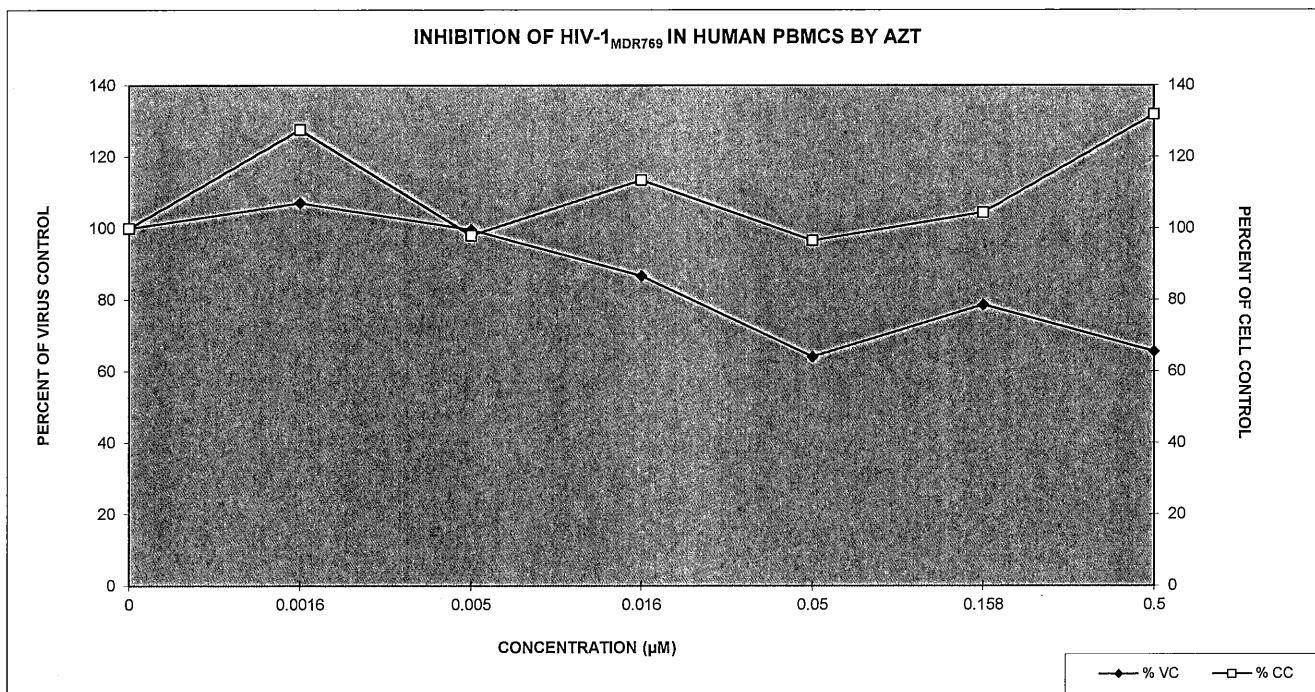
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	1.8868	2.2804	1.8728	2.1345	1.7426	1.9078	2.3829
SAMPLE 2	1.5749	2.2764	1.8314	2.0855	1.7930	1.8467	2.2445
SAMPLE 3	1.9076	2.2962	1.5579	1.8750	1.6504	1.8526	2.4537

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	MDR769	Cells:	HUMAN PBMCS	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: AZT

	25%	50%	95%
EC (µM)	0.0288	>0.5	>0.5
TC (µM)	>0.5	>0.5	>0.5
Therapeutic Index (TI)	>17.36		

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	15663.5	1151.09546	100.00	1.790	0.186399	100.00
0.0016	16776.3	1672.64591	107.10	2.284	0.01047	127.63
0.005	15601.7	2433.68123	99.61	1.754	0.171113	98.00
0.016	13576.7	599.833588	86.68	2.032	0.137872	113.52
0.05	10040.0	1522.13961	64.10	1.729	0.072314	96.59
0.158	12317.0	1125.13333	78.64	1.869	0.033702	104.43
0.5	10273.7	588.20433	65.59	2.360	0.106405	131.88



# INHIBITION OF HIV-1<sub>MDR769</sub> IN HUMAN PBMCS BY DEXTRAN SULFATE

Raw Data (DEXTRAN SULFATE)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	14359.0	11912.0	17084.0	14551.0	11343.0	13807.0	10629.0
SAMPLE 2	16536.5	16483.0	14271.0	14374.0	14200.0	16996.0	9693.0
SAMPLE 3	16095.0	18373.0	13344.0	14387.0	16330.0	13823.0	9876.0

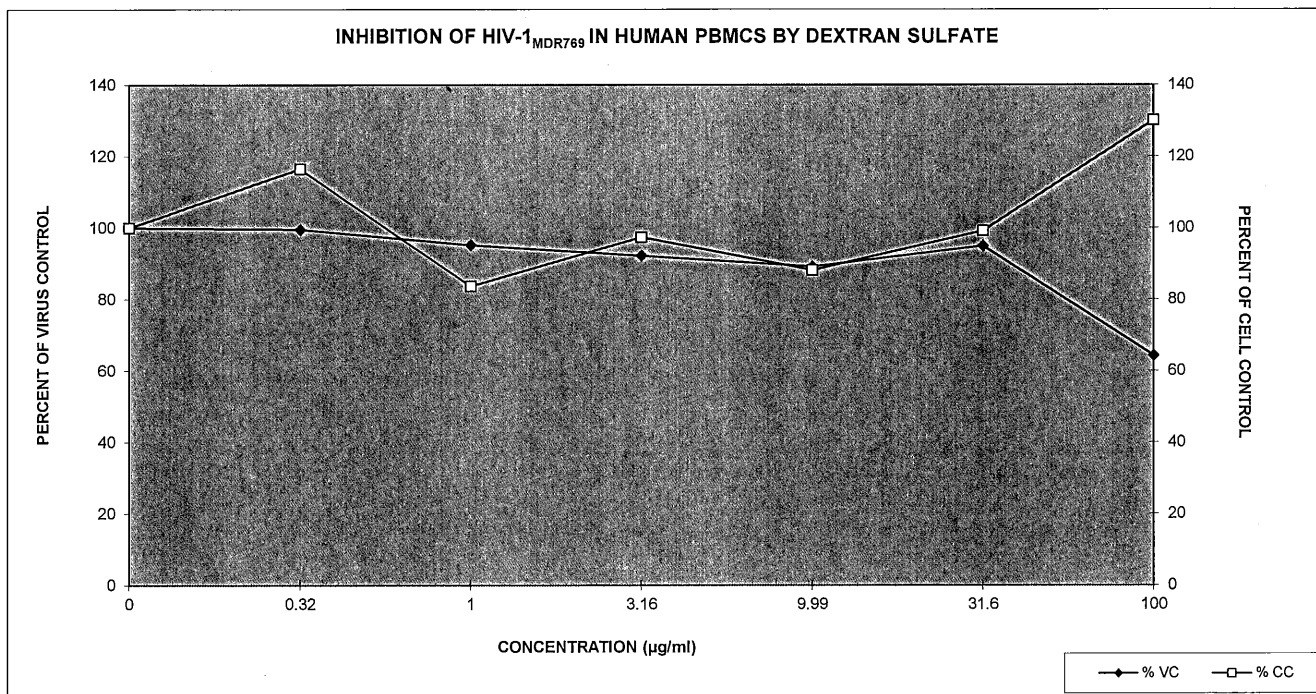
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8868	2.2763	1.5557	1.5081	1.5941	1.8016	2.2360
SAMPLE 2	1.5749	2.1174	1.4595	1.7249	1.6510	1.8496	2.3334
SAMPLE 3	1.9076	1.8585	1.4758	1.9957	1.4865	1.6752	2.4186

Virus: HIV-1                      Clade: UNKNOWN                      Technician: Lu Yang                      Setup Date: 8/6/14  
 Strain: MDR769                      Cells: HUMAN PBMCS                      PI: Tracy Hartman                      Read Date: 8/13/14  
 Tropism: UNKNOWN                      Project #: 306-01-04                      Client: CJSC

Antiviral Compound: DEXTRAN SULFATE

	25%	50%	95%
EC (µg/ml)	66.8	>100	>100
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>1.50		

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	15663.5	1151.09546	100.00	1.790	0.186399	100.00
0.32	15589.3	3321.91366	99.53	2.084	0.210885	116.44
1	14899.7	1947.64379	95.12	1.497	0.051485	83.64
3.16	14437.3	98.6525891	92.17	1.743	0.244298	97.38
9.99	13957.7	2502.31619	89.11	1.577	0.083542	88.12
31.6	14875.3	1836.56863	94.97	1.775	0.090089	99.20
100	10066.0	496.083662	64.26	2.329	0.091368	130.15



# INHIBITION OF HIV-1<sub>AD. MDR1</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	49347.0	34403.0	43877.0	20870.0	7272.0	358.0	344.0
SAMPLE 2	43340.0	29286.0	39696.0	20229.0	2794.0	330.0	324.0
SAMPLE 3	36337.5	54637.0	27512.0	26718.0	6651.0	330.0	296.0

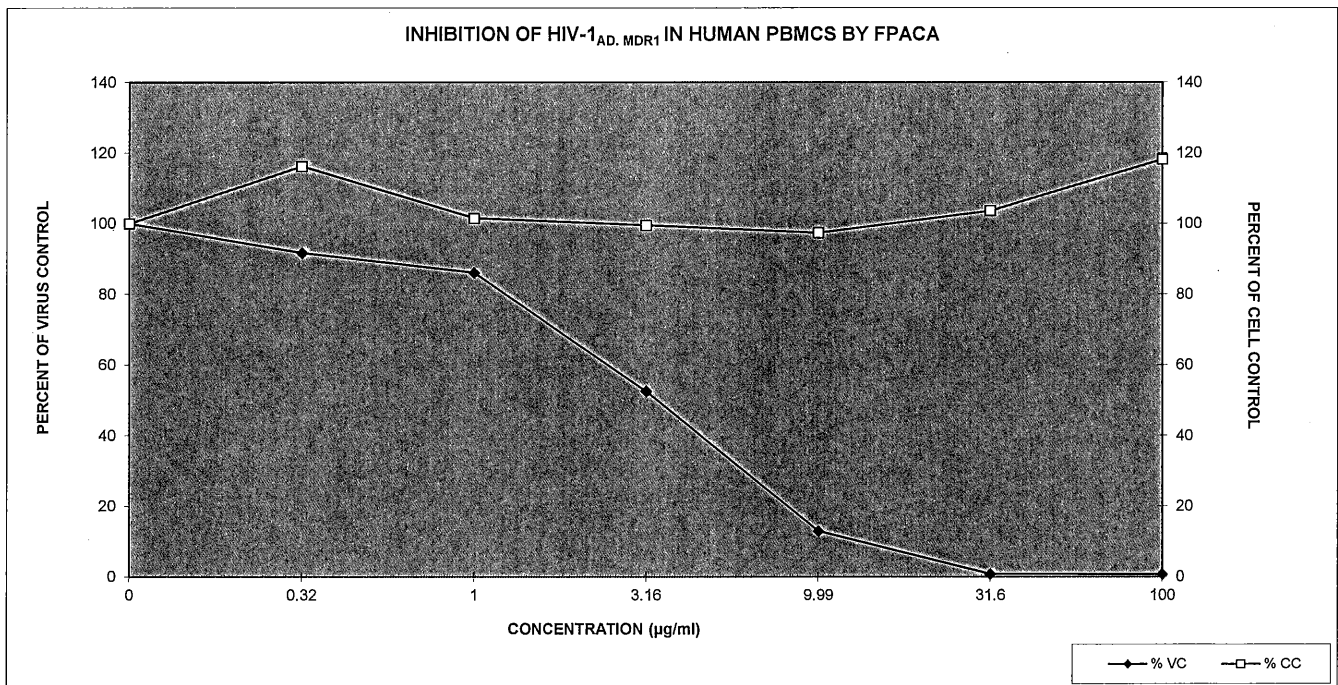
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	1.8709	2.3013	2.0467	2.1105	2.0304	2.1296	2.2360
SAMPLE 2	1.7576	2.2411	1.8846	1.7637	1.8576	1.7993	2.3072
SAMPLE 3	2.1976	2.2273	1.9827	1.9230	1.7860	2.1064	2.3443

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	AD. MDR1	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

**Antiviral Compound: FPACA**

	25%	50%	95%
EC (µg/ml)	1.46	3.40	21.2
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>68.49	>29.41	>4.72

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	43008.2	6511.095	100.00	1.942	0.22844199	100.00
0.32	39442.0	13405.668	91.71	2.257	0.03934988	116.20
1	37028.3	8502.3903	86.10	1.971	0.0816456	101.51
3.16	22605.7	3575.7774	52.56	1.932	0.17359098	99.51
9.99	5572.3	2426.059	12.96	1.891	0.12564352	97.39
31.6	339.3	16.165808	0.79	2.012	0.18436682	103.59
100	321.3	24.110855	0.75	2.296	0.05503747	118.22



# INHIBITION OF HIV-1<sub>AD. MDR1</sub> IN HUMAN PBMCs BY AZT

Raw Data (AZT)

RT VALUES (CPM)							
Conc (µM)	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	49347.0	26338.0	23520.0	12518.0	7343.0	490.0	388.0
SAMPLE 2	43340.0	35946.0	23761.0	14830.0	10126.0	446.0	452.0
SAMPLE 3	36337.5	33247.0	29036.0	13573.0	4810.0	1423.0	308.0

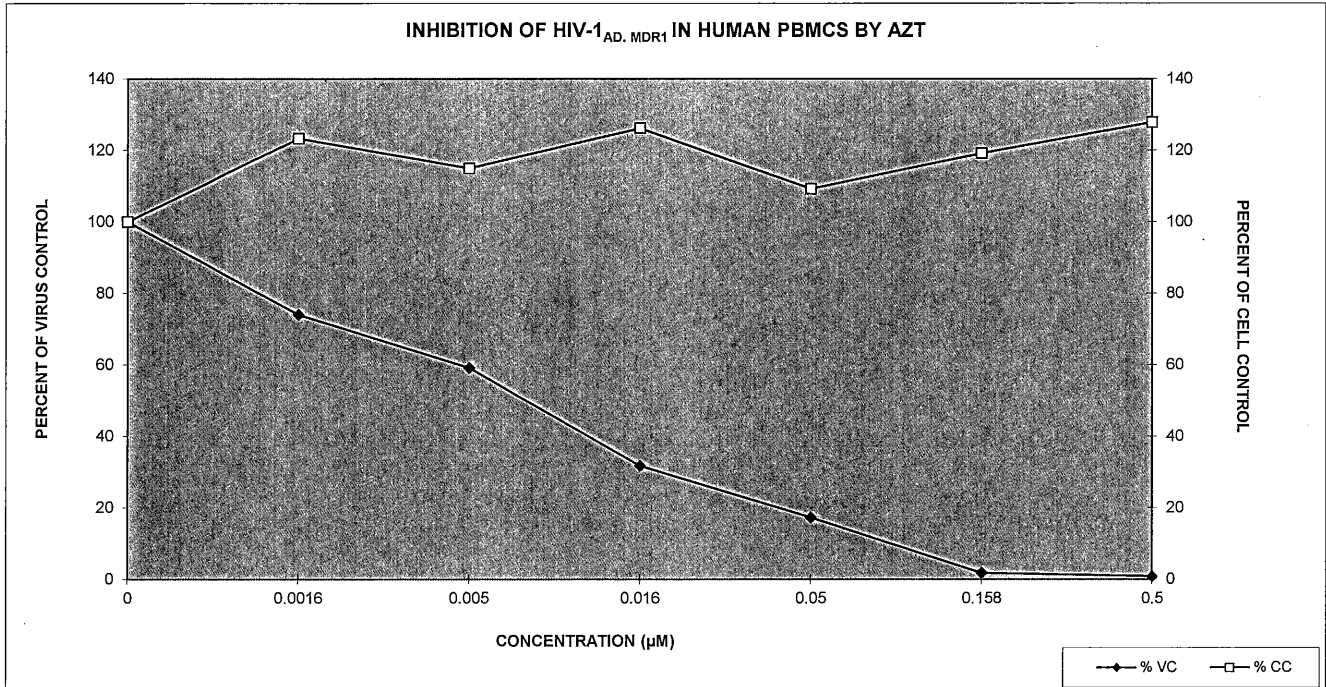
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0016	0.005	0.016	0.05	0.158	0.5
SAMPLE 1	1.8709	2.4948	2.2432	2.6538	1.9796	2.1434	2.5069
SAMPLE 2	1.7576	2.3541	2.2168	2.3014	2.2645	2.4211	2.5080
SAMPLE 3	2.1976	2.3335	2.2360	2.3966	2.1168	2.3781	2.4362

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	AD. MDR1	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CISC		

Antiviral Compound: AZT

	25%	50%	95%
EC (µM)	<0.00160	0.00737	0.125
TC (µM)	>0.5	>0.5	>0.5
Therapeutic Index (TI)	>312.50	>67.84	>4.00

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	43008.2	6511.09496	100.00	1.942	0.228442	100.00
0.0016	31843.7	4955.34301	74.04	2.394	0.087786	123.28
0.005	25439.0	3117.42313	59.15	2.232	0.013647	114.93
0.016	13640.3	1157.4698	31.72	2.451	0.1823	126.19
0.05	7426.3	2658.97957	17.27	2.120	0.142482	109.18
0.158	786.3	551.80824	1.83	2.314	0.149472	119.17
0.5	382.7	72.147996	0.89	2.483	0.040561	127.86



# INHIBITION OF HIV-1<sub>AD. MDR1</sub> IN HUMAN PBMCs BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	49347.0	44048.0	33931.0	33499.0	38171.0	11828.0	542.0
SAMPLE 2	43340.0	42279.0	39202.0	44730.0	32796.0	13799.0	766.0
SAMPLE 3	36337.5	50752.0	45127.0	44584.0	29304.0	19644.0	590.0

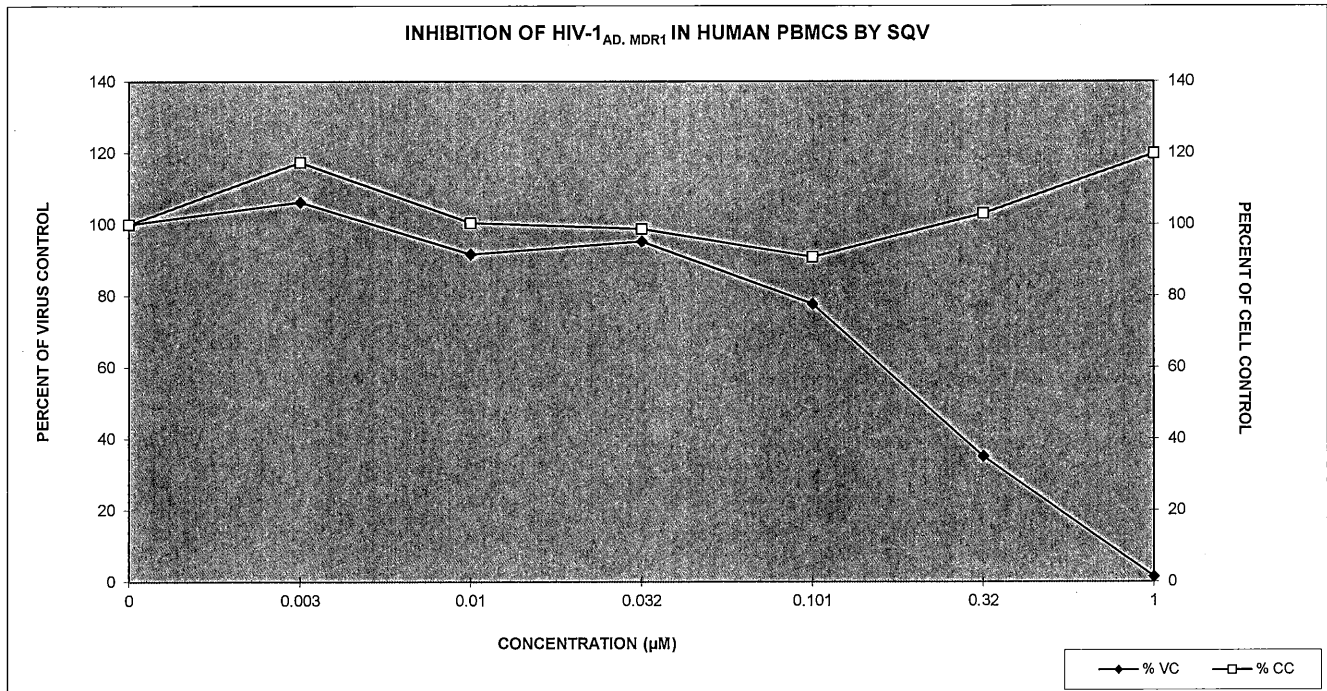
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	1.8709	2.0556	2.0832	1.9895	1.6526	2.0065	2.2360
SAMPLE 2	1.7576	2.3946	1.8749	1.9362	1.8730	2.0314	2.4341
SAMPLE 3	2.1976	2.3876	1.8919	1.8252	1.7673	1.9667	2.3092

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	AD. MDR1	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	0.109	0.214	0.887
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>9.17	>4.67	>1.13

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	43008.2	6511.09496	100.00	1.942	0.228442	100.00
0.003	45693.0	4469.61419	106.24	2.279	0.193733	117.37
0.01	39420.0	5601.18264	91.66	1.950	0.115667	100.41
0.032	40937.7	6442.4879	95.19	1.917	0.083822	98.71
0.101	33423.7	4466.69859	77.71	1.764	0.110231	90.85
0.32	15090.3	4064.86412	35.09	2.002	0.032635	103.07
1	632.7	117.937837	1.47	2.326	0.100168	119.80





# INHIBITION OF HIV-1<sub>PR 1002-60</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	30304.5	50230.0	11109.0	8644.0	356.0	352.0	304.0
SAMPLE 2	49215.0	28983.0	16920.0	654.0	5299.0	350.0	328.0
SAMPLE 3	25058.5	24518.0	24691.0	11596.0	304.0	268.0	330.0

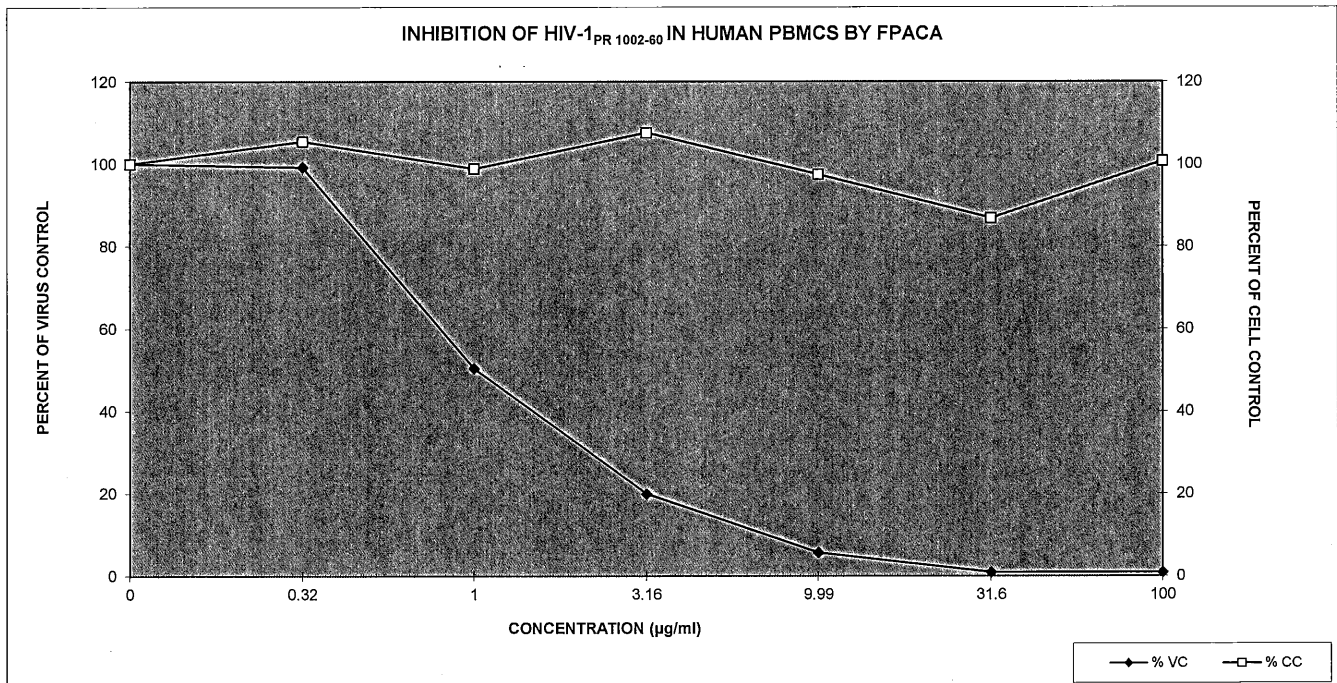
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.1414	2.1006	2.0884	1.9901	2.1151	1.8506	1.8372
SAMPLE 2	1.6958	1.9911	1.5479	1.8154	1.5369	1.7681	2.0865
SAMPLE 3	2.1315	2.2040	2.2656	2.6180	2.1629	1.5667	2.0892

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1002-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	0.563	1.02	11.8
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>177.62	>98.04	>8.47

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	34859.3	12706.062	100.00	1.990	0.25444263	100.00
0.32	34577.0	13738.499	99.19	2.099	0.10646456	105.48
1	17573.3	6814.5296	50.41	1.967	0.37386124	98.88
3.16	6964.7	5661.0036	19.98	2.141	0.42208713	107.62
9.99	1986.3	2868.9713	5.70	1.938	0.34844322	97.42
31.6	323.3	47.930505	0.93	1.728	0.14604076	86.88
100	320.7	14.468356	0.92	2.004	0.14471914	100.74



# INHIBITION OF HIV-1<sub>PR 1002-60</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc. (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	30304.5	23945.0	21408.0	13386.0	6476.0	340.0	302.0
SAMPLE 2	49215.0	31834.0	35474.0	13075.0	6338.0	268.0	258.0
SAMPLE 3	25058.5	26583.0	5549.0	7906.0	4530.0	280.0	282.0

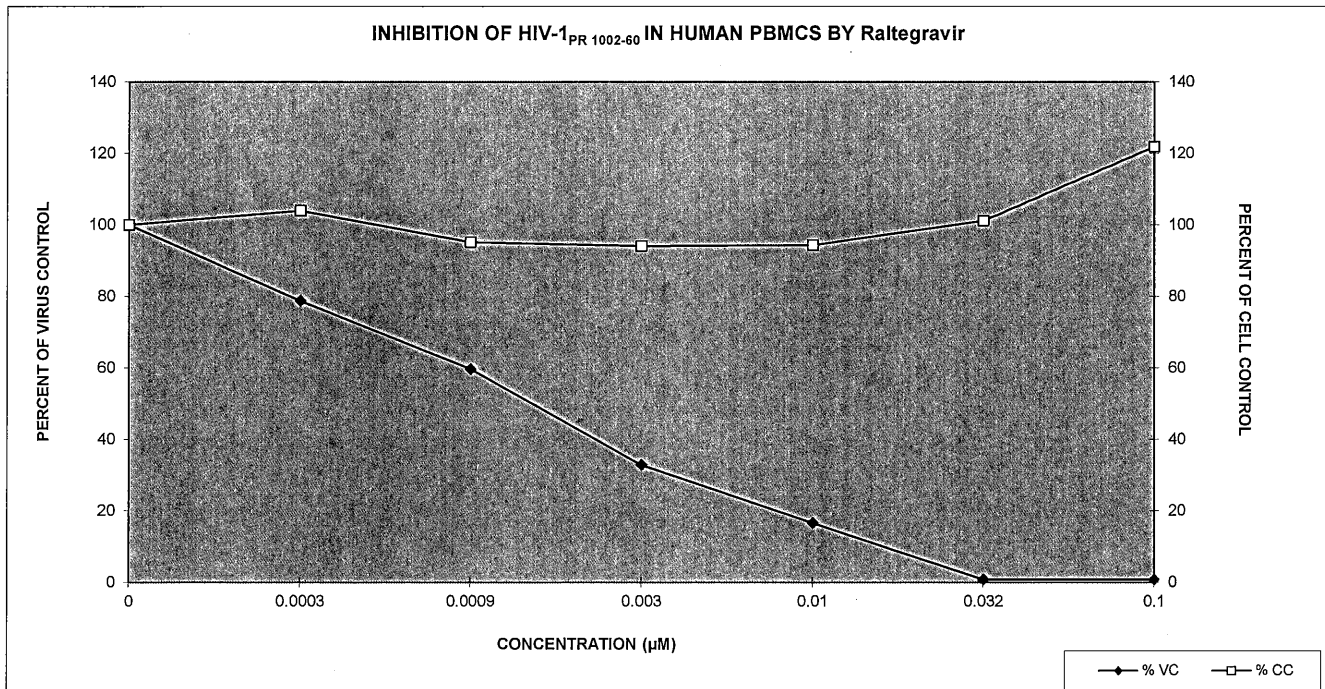
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.1414	1.9349	1.7039	1.9739	1.8458	2.0512	2.4485
SAMPLE 2	1.6958	2.0565	2.0564	2.1097	1.9179	1.8634	2.4908
SAMPLE 3	2.1315	2.2127	1.9203	1.5313	1.8658	2.1025	2.3329

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1002-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	3.73E-04	0.00139	0.0235
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>268.10	>71.94	>4.26

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	34859.3	12706.0617	100.00	1.990	0.254443	100.00
0.0003	27454.0	4015.97572	78.76	2.068	0.139259	103.94
0.0009	20810.3	14971.4498	59.70	1.894	0.177768	95.17
0.003	11455.7	3078.03189	32.86	1.872	0.302457	94.07
0.01	5781.3	1085.8809	16.58	1.877	0.037222	94.32
0.032	296.0	38.574603	0.85	2.012	0.114596	101.15
0.1	280.7	22.0302822	0.81	2.424	0.081736	121.84



# INHIBITION OF HIV-1<sub>PR 1002-60</sub> IN HUMAN PBMCs BY IDV

Raw Data (IDV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	30304.5	27401.0	33189.0	34002.0	7808.0	33633.0	15169.0
SAMPLE 2	49215.0	19315.0	28908.0	37049.0	43445.0	25971.0	2568.0
SAMPLE 3	25058.5	30591.0	27469.0	27660.0	41667.0	43765.0	25547.0

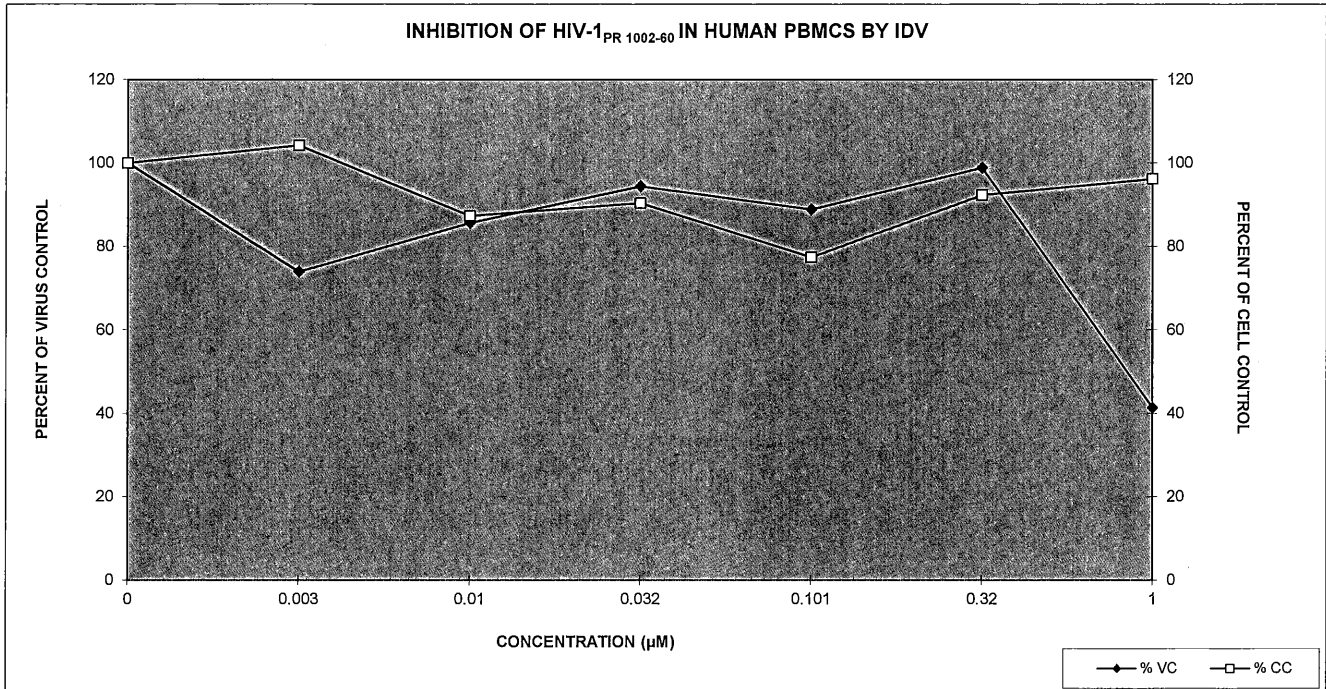
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.1414	2.0815	1.9175	2.0410	1.6099	1.8645	1.8372
SAMPLE 2	1.6958	2.1303	1.7302	1.7464	1.5813	2.0182	2.1346
SAMPLE 3	2.1315	2.0095	1.5638	1.6061	1.4274	1.6267	1.7688

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1002-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: IDV

	25%	50%	95%
EC (µM)	<0.00300	0.843	>1.0
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>333.33	>1.19	1

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	34859.3	12706.0617	100.00	1.990	0.254443	100.00
0.003	25769.0	5812.45318	73.92	2.074	0.06077	104.23
0.01	29855.3	2975.34541	85.65	1.737	0.176953	87.31
0.032	32903.7	4789.89377	94.39	1.798	0.221965	90.36
0.101	30973.3	20081.4547	88.85	1.540	0.098158	77.38
0.32	34456.3	8925.52617	98.84	1.836	0.19725	92.31
1	14428.0	11507.4072	41.39	1.914	0.19448	96.18



# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	5854.5	6959.0	7674.0	4456.0	1567.0	1217.0	662.0
SAMPLE 2	11818.5	5871.0	9782.0	5471.0	5116.0	1375.0	708.0
SAMPLE 3	8215.5	13286.0	18760.0	7241.0	2876.0	1159.0	742.0

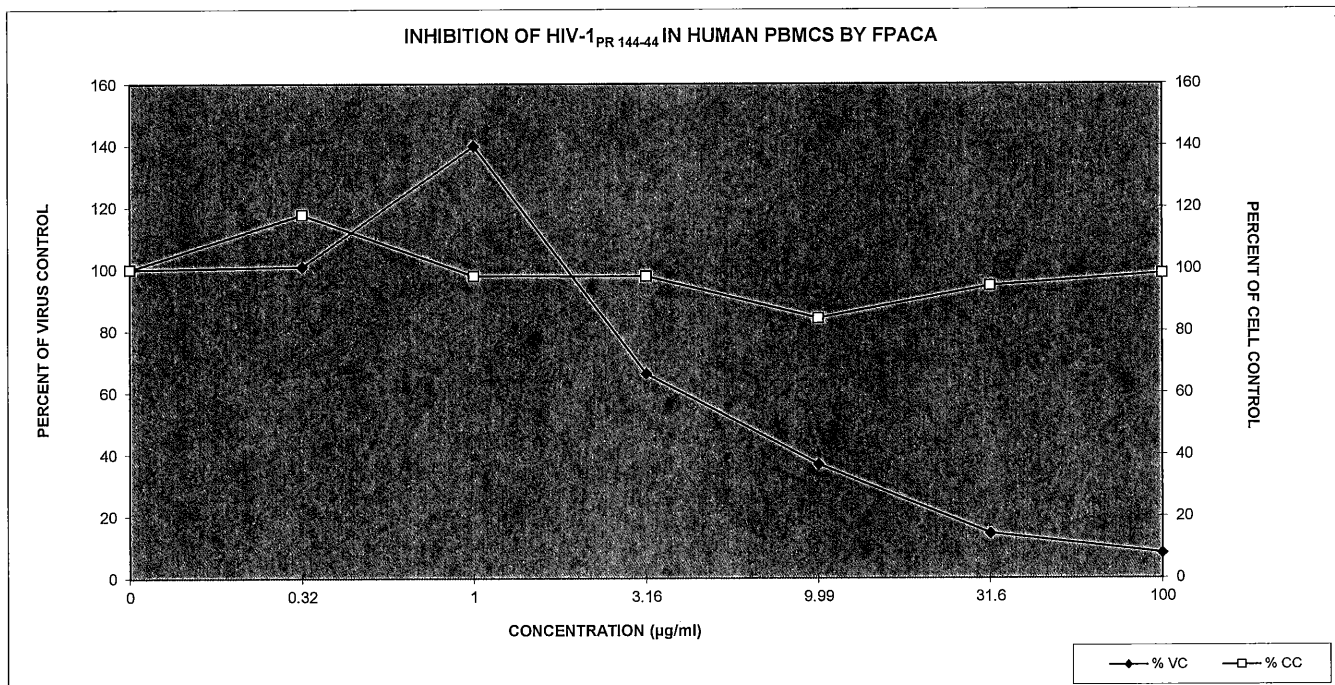
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.0065	2.4396	2.2461	2.0570	1.9011	1.8850	1.8878
SAMPLE 2	1.8557	2.3068	1.9376	1.7942	1.7582	1.7594	1.8943
SAMPLE 3	2.1688	2.3547	1.7231	2.0475	1.4181	2.0667	2.1663

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	PR 144-44	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

**Antiviral Compound: FPACA**

	25%	50%	95%
EC (µg/ml)	2.76	5.99	>100
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>36.23	>16.69	1

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	8629.5	3003.4765	100.00	2.010	0.15658459	100.00
0.32	8705.3	4004.0999	100.88	2.367	0.06725357	117.75
1	12072.0	5887.0981	139.89	1.969	0.26290413	97.94
3.16	5722.7	1409.4532	66.32	1.966	0.14906094	97.81
9.99	3186.3	1794.7368	36.92	1.692	0.24811873	84.19
31.6	1250.3	111.79147	14.49	1.904	0.1545011	94.70
100	704.0	40.14972	8.16	1.983	0.15894889	98.63



# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc. (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	5854.5	15022.0	5693.0	1643.0	762.0	810.0	814.0
SAMPLE 2	11818.5	5188.0	4980.0	1917.0	944.0	676.0	672.0
SAMPLE 3	8215.5	10261.0	3539.0	908.0	1081.0	646.0	722.0

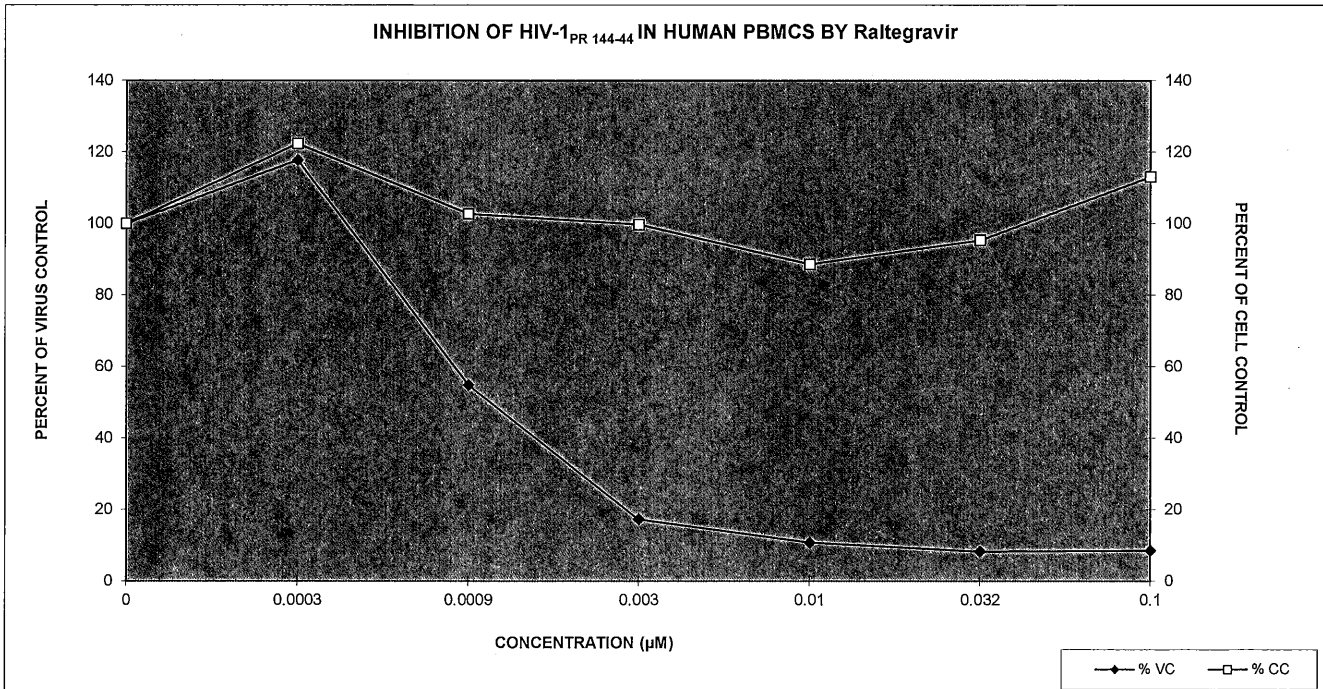
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc. (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.0065	2.5022	2.2388	2.0260	1.7959	1.9679	2.1266
SAMPLE 2	1.8557	2.4523	1.8739	2.0178	1.8203	2.0608	2.4253
SAMPLE 3	2.1688	2.4240	2.0778	1.9673	1.7242	1.7222	2.2671

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	PR 144-44	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	6.33E-04	0.00105	>0.1
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>157.98	>95.24	1

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	8629.5	3003.47649	100.00	2.010	0.156585	100.00
0.0003	10157.0	4917.82482	117.70	2.460	0.039594	122.34
0.0009	4737.3	1097.31232	54.90	2.064	0.18287	102.65
0.003	1489.3	521.756968	17.26	2.004	0.031789	99.67
0.01	929.0	160.028123	10.77	1.780	0.049952	88.55
0.032	710.7	87.3231546	8.24	1.917	0.174952	95.36
0.1	736.0	72.0277724	8.53	2.273	0.149437	113.07



# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCS BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	5854.5	7400.0	2321.0	1287.0	750.0	666.0	858.0
SAMPLE 2	11818.5	6713.0	3226.0	1339.0	828.0	852.0	985.0
SAMPLE 3	8215.5	11245.0	4250.0	1127.0	894.0	904.0	874.0

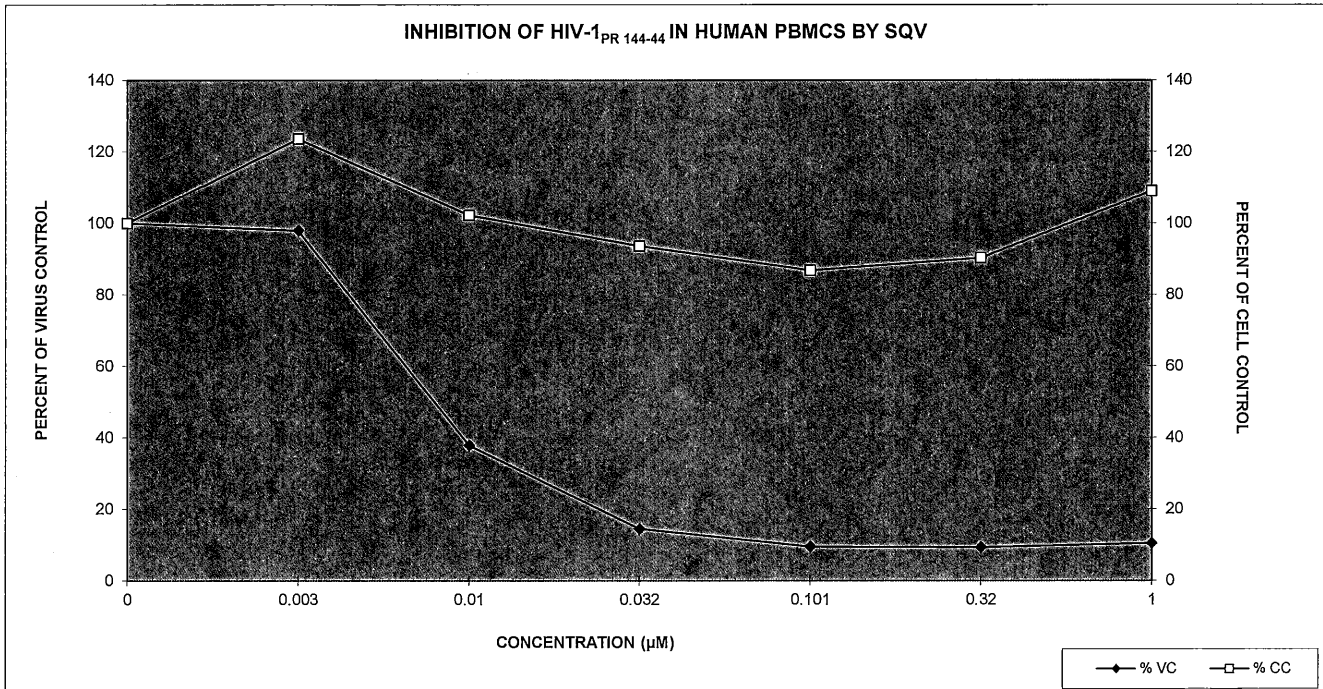
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.0065	2.4485	1.9654	1.9421	1.6363	1.7561	1.8878
SAMPLE 2	1.8557	2.5505	2.0444	1.6878	1.8107	1.8253	2.3677
SAMPLE 3	2.1688	2.4543	2.1523	2.0138	1.7895	1.8655	2.3179

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	9/11/14
Strain:	PR 144-44	Cells:	HUMAN PBMCS	PI:	Tracy Hartman	Read Date:	9/18/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	0.00475	0.00784	>1.0
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>210.53	>127.55	1

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	8629.5	3003.47649	100.00	2.010	0.156585	100.00
0.003	8452.7	2442.50616	97.95	2.484	0.057289	123.59
0.01	3265.7	965.111565	37.84	2.054	0.093822	102.18
0.032	1251.0	110.489819	14.50	1.881	0.171311	93.58
0.101	824.0	72.0832852	9.55	1.746	0.095162	86.83
0.32	808.0	124	9.36	1.816	0.055337	90.32
1	905.7	69.1688755	10.50	2.191	0.263872	109.00



# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	25292.5	22029.0	26737.0	16003.0	15899.0	1047.0	502.0
SAMPLE 2	16593.5	18046.0	28949.0	24171.0	12719.0	3807.0	560.0
SAMPLE 3	19305.5	24676.0	17873.0	17536.0	16210.0	2175.0	504.0

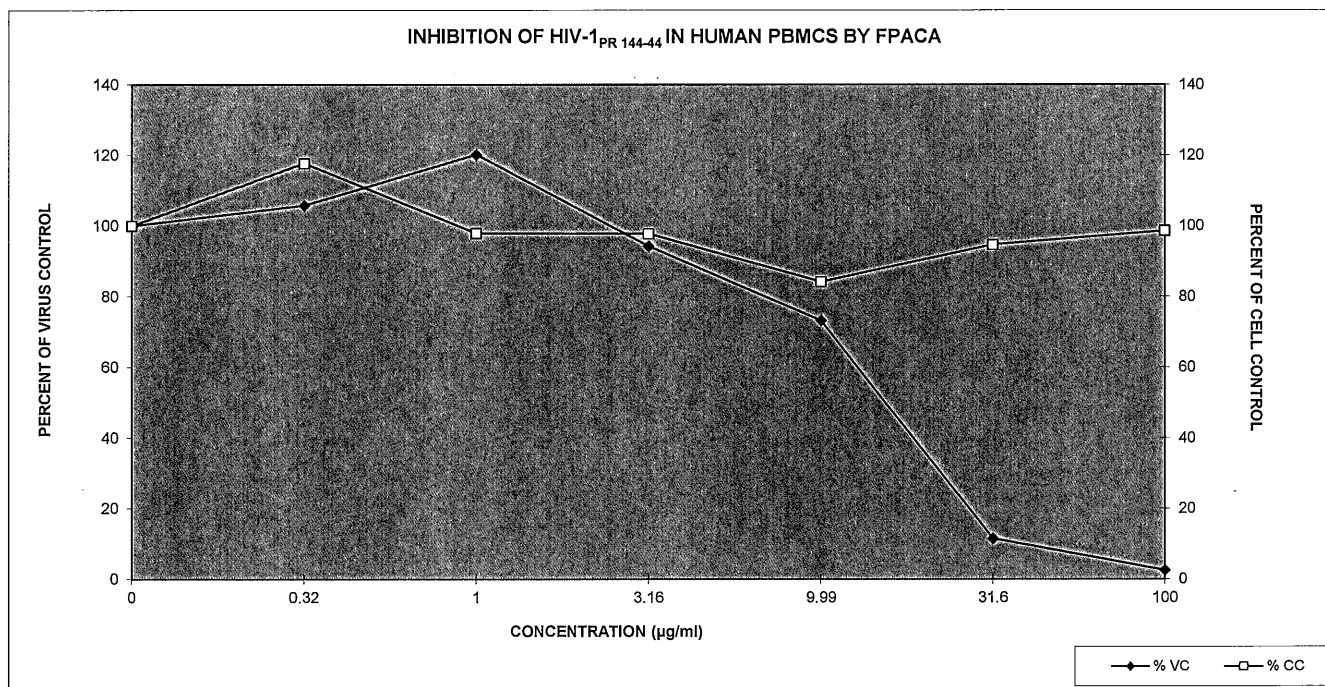
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.0065	2.4396	2.2461	2.0570	1.9011	1.8850	1.8878
SAMPLE 2	1.8557	2.3068	1.9376	1.7942	1.7582	1.7594	1.8943
SAMPLE 3	2.1688	2.3547	1.7231	2.0475	1.4181	2.0667	2.1663

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 144-44	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	9.08	15.4	73.0
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>11.01	>6.49	>1.37

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20397.2	4451.0619	100.00	2.010	0.15658459	100.00
0.32	21583.7	3337.3592	105.82	2.367	0.06725357	117.75
1	24519.7	5861.4733	120.21	1.969	0.26290413	97.94
3.16	19236.7	4341.4579	94.31	1.966	0.14906094	97.81
9.99	14942.7	1932.0198	73.26	1.692	0.24811873	84.19
31.6	2343.0	1387.6484	11.49	1.904	0.1545011	94.70
100	522.0	32.924155	2.56	1.983	0.15894889	98.63



# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	25292.5	18836.0	6805.0	6758.0	664.0	524.0	468.0
SAMPLE 2	16593.5	8720.0	12907.0	3751.0	588.0	504.0	476.0
SAMPLE 3	19305.5	12428.0	5915.0	1101.0	744.0	546.0	456.0

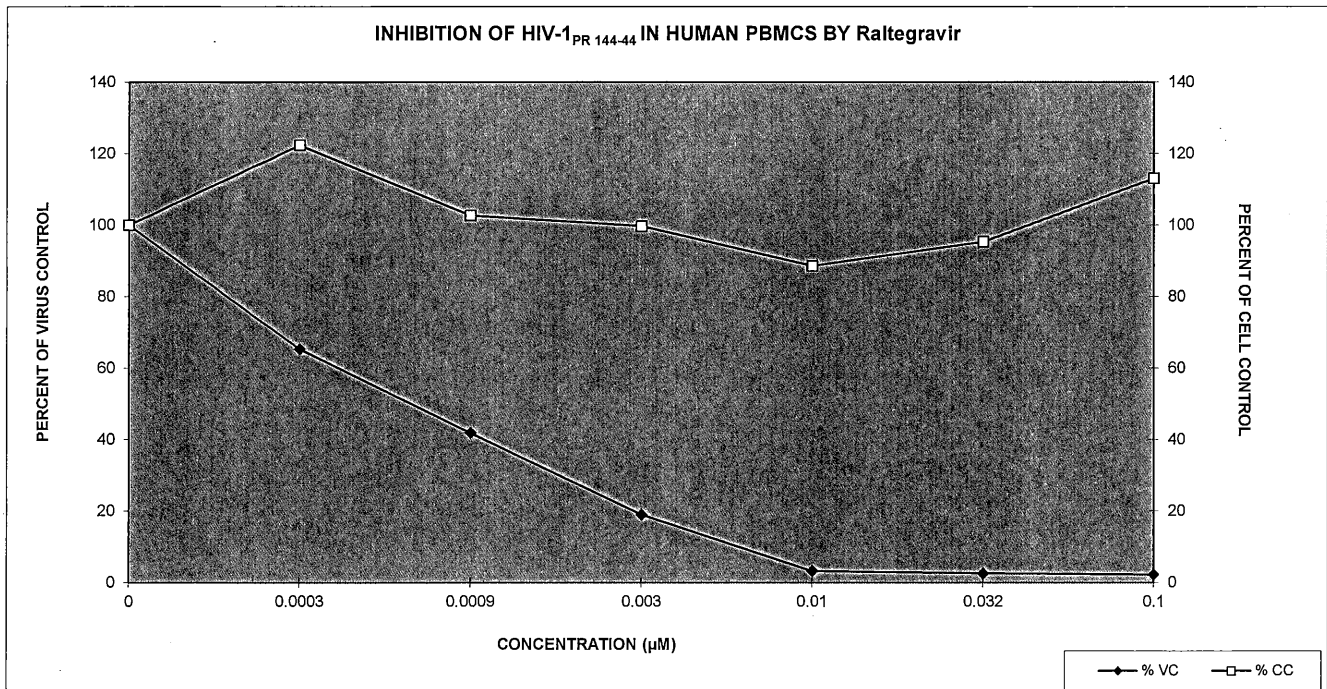
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.0065	2.5022	2.2388	2.0260	1.7959	1.9679	2.1266
SAMPLE 2	1.8557	2.4523	1.8739	2.0178	1.8203	2.0608	2.4253
SAMPLE 3	2.1688	2.4240	2.0778	1.9673	1.7242	1.7222	2.2671

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 144-44	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	<0.00030	6.15E-04	0.00875
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>333.33	>162.60	>11.43

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20397.2	4451.06193	100.00	2.010	0.156585	100.00
0.0003	13328.0	5117.70105	65.34	2.460	0.039594	122.34
0.0009	8542.3	3806.01647	41.88	2.064	0.18287	102.65
0.003	3870.0	2830.37683	18.97	2.004	0.031789	99.67
0.01	665.3	78.0085465	3.26	1.780	0.049952	88.55
0.032	524.7	21.007935	2.57	1.917	0.174952	95.36
0.1	466.7	10.0664459	2.29	2.273	0.149437	113.07





# INHIBITION OF HIV-1<sub>PR 144-44</sub> IN HUMAN PBMCs BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	25292.5	22387.0	15762.0	7089.0	812.0	540.0	430.0
SAMPLE 2	16593.5	17243.0	5741.0	2466.0	884.0	510.0	512.0
SAMPLE 3	19305.5	25655.0	7376.0	5749.0	772.0	494.0	516.0

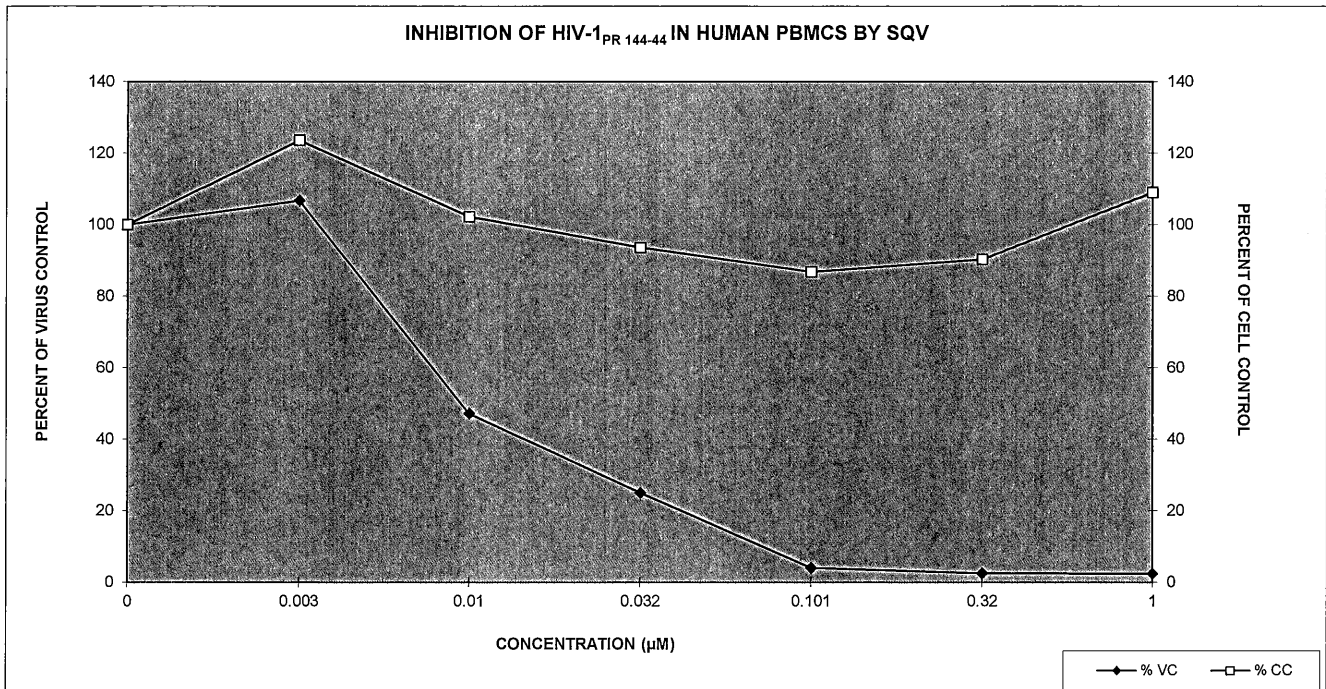
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.0065	2.4485	1.9654	1.9421	1.6363	1.7561	1.8878
SAMPLE 2	1.8557	2.5505	2.0444	1.6878	1.8107	1.8253	2.3677
SAMPLE 3	2.1688	2.4543	2.1523	2.0138	1.7895	1.8655	2.3179

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 144-44	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	0.00570	0.00945	0.0958
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>175.44	>105.82	>10.44

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20397.2	4451.06193	100.00	2.010	0.156585	100.00
0.003	21761.7	4240.72132	106.69	2.484	0.057289	123.59
0.01	9626.3	5376.1613	47.19	2.054	0.093822	102.18
0.032	5101.3	2378.57864	25.01	1.881	0.171311	93.58
0.101	822.7	56.7567911	4.03	1.746	0.095162	86.83
0.32	514.7	23.3523732	2.52	1.816	0.055337	90.32
1	486.0	48.5386444	2.38	2.191	0.263872	109.00



# INHIBITION OF HIV-1<sub>PR 1026-60</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	35981.5	34581.0	32302.0	18044.0	3098.0	364.0	320.0
SAMPLE 2	35960.0	37813.0	32318.0	16874.0	1959.0	380.0	314.0
SAMPLE 3	35225.0	34088.0	33444.0	22311.0	2714.0	316.0	268.0

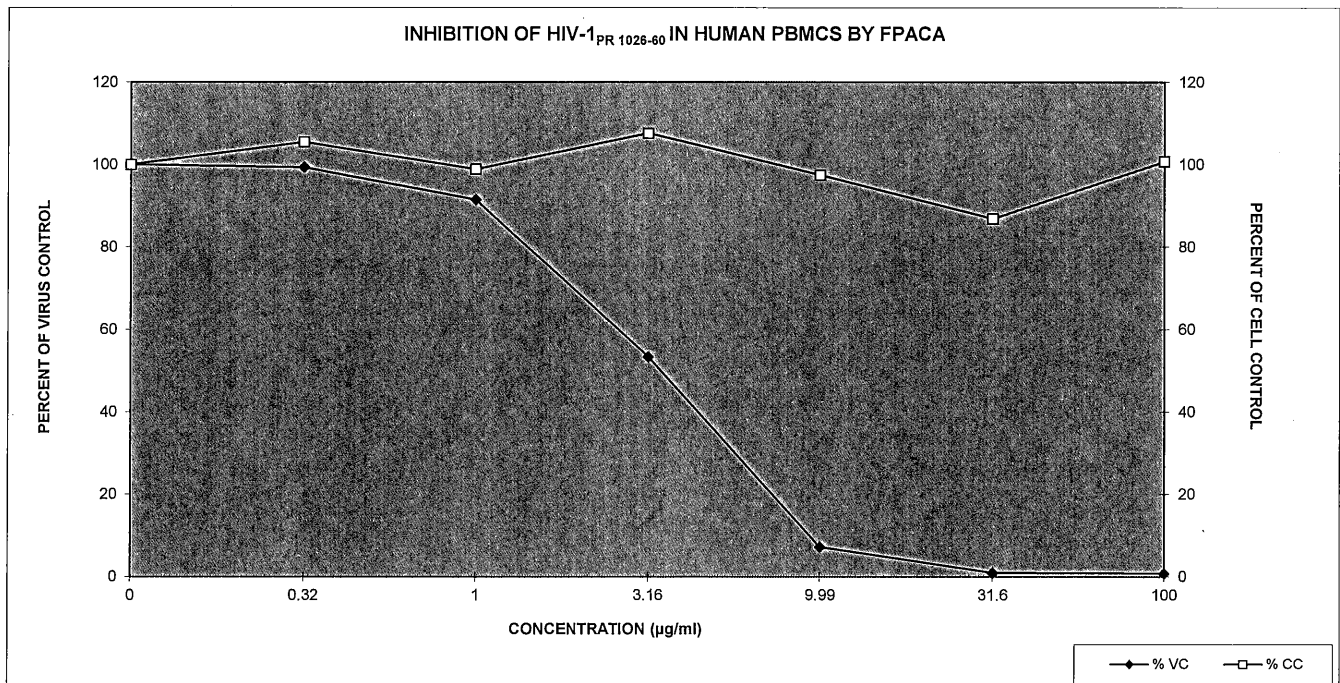
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.1414	2.1006	2.0884	1.9901	2.1151	1.8506	1.8372
SAMPLE 2	1.6958	1.9911	1.5479	1.8154	1.5369	1.7681	2.0865
SAMPLE 3	2.1315	2.2040	2.2656	2.6180	2.1629	1.5667	2.0892

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1026-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

**Antiviral Compound: FPACA**

	25%	50%	95%
EC (µg/ml)	1.65	3.44	15.1
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>60.61	>29.07	>6.62

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	35722.2	430.69314	100.00	1.990	0.25444263	100.00
0.32	35494.0	2023.384	99.36	2.099	0.10646456	105.48
1	32688.0	654.76408	91.51	1.967	0.37386124	98.88
3.16	19076.3	2861.7348	53.40	2.141	0.42208713	107.62
9.99	2590.3	579.48282	7.25	1.938	0.34844322	97.42
31.6	353.3	33.306656	0.99	1.728	0.14604076	86.88
100	300.0	29.597297	0.84	2.004	0.14471914	100.74



# INHIBITION OF HIV-1<sub>PR 1026-60</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc. (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	35981.5	27005.0	25153.0	17566.0	5244.0	446.0	226.0
SAMPLE 2	35960.0	25754.0	26690.0	16224.0	3448.0	482.0	280.0
SAMPLE 3	35225.0	11470.0	27946.0	22907.0	1881.0	342.0	284.0

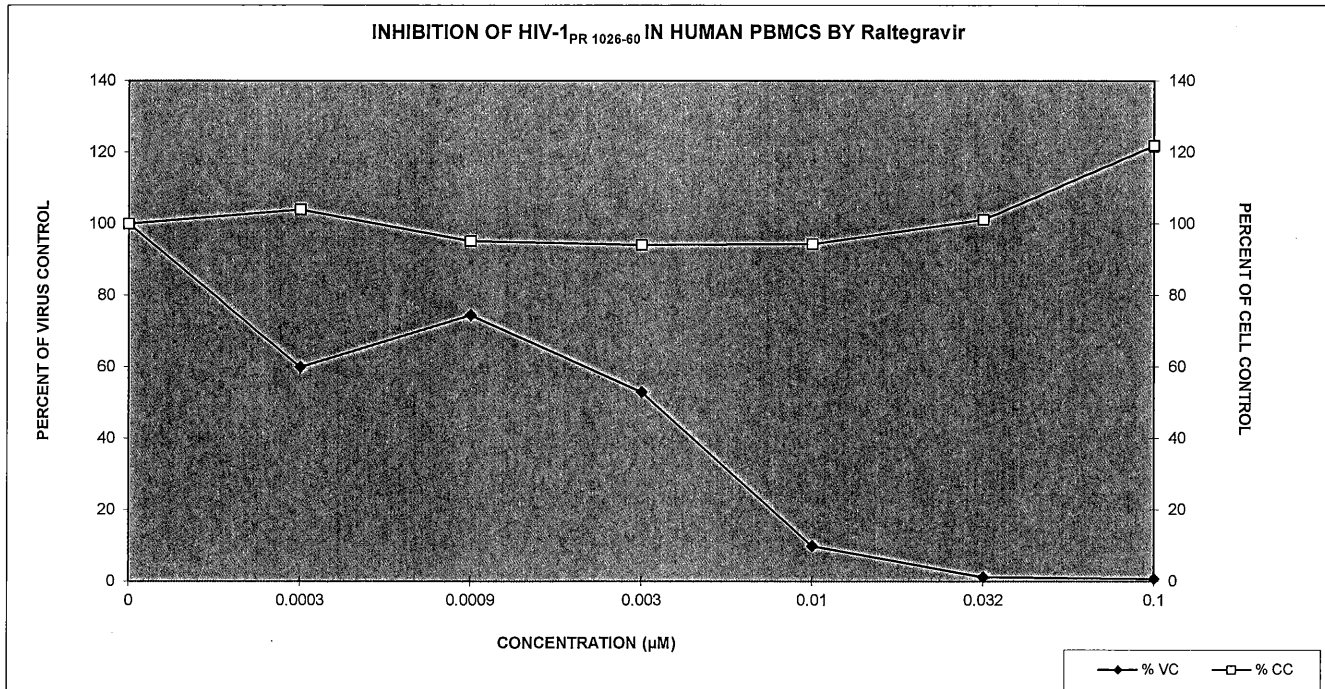
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.1414	1.9349	1.7039	1.9739	1.8458	2.0512	2.4485
SAMPLE 2	1.6958	2.0565	2.0564	2.1097	1.9179	1.8834	2.4908
SAMPLE 3	2.1315	2.2127	1.9203	1.5313	1.8658	2.1025	2.3329

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1026-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	<0.00030	0.00325	0.0192
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>333.33	>30.77	>5.21

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	35722.2	430.693143	100.00	1.990	0.254443	100.00
0.0003	21409.7	8630.69988	59.93	2.068	0.139259	103.94
0.0009	26596.3	1398.85394	74.45	1.894	0.177768	95.17
0.003	18899.0	3535.29193	52.91	1.872	0.302457	94.07
0.01	3524.3	1682.79896	9.87	1.877	0.037222	94.32
0.032	423.3	72.700298	1.19	2.012	0.114596	101.15
0.1	263.3	32.393415	0.74	2.424	0.081736	121.84



# INHIBITION OF HIV-1<sub>PR 1026-60</sub> IN HUMAN PBMCs BY IDV

Raw Data (IDV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	35981.5	28472.0	29968.0	27355.0	25168.0	23267.0	9239.0
SAMPLE 2	35960.0	27868.0	32026.0	33903.0	27097.0	21239.0	10229.0
SAMPLE 3	35225.0	30535.0	33855.0	31383.0	28988.0	24428.0	10580.0

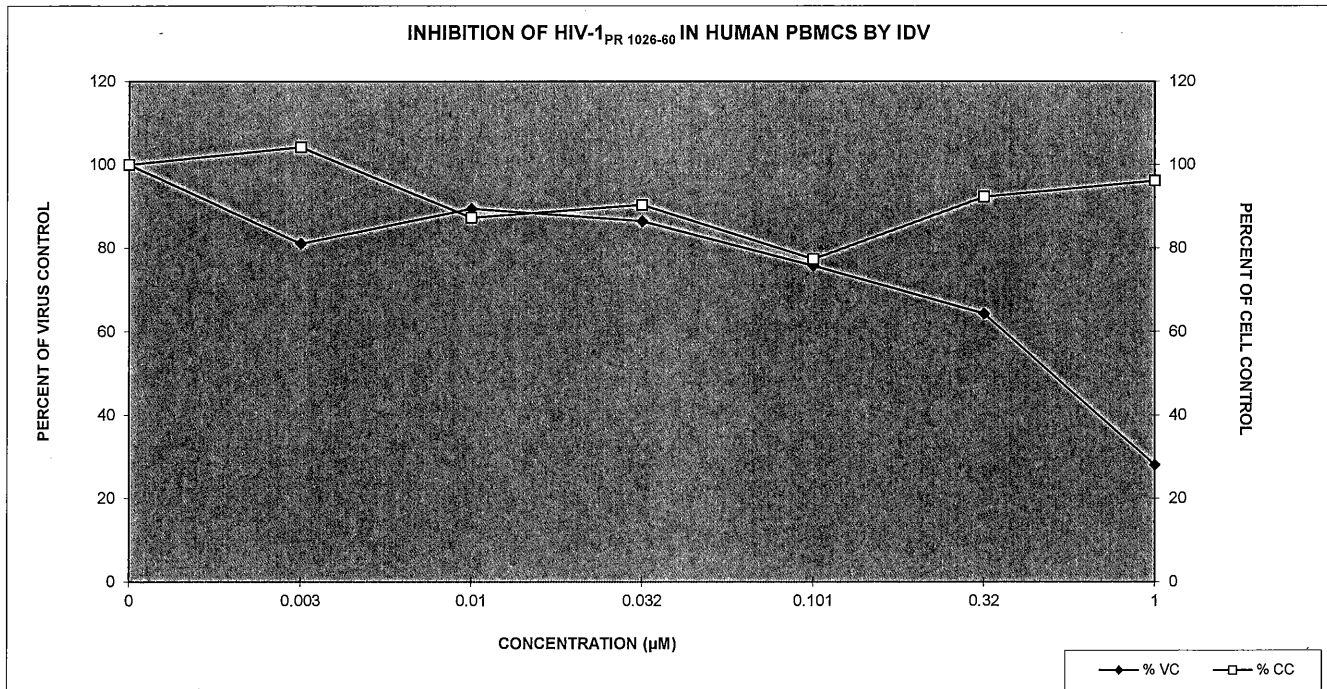
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.1414	2.0815	1.9175	2.0410	1.6099	1.8645	1.8372
SAMPLE 2	1.6958	2.1303	1.7302	1.7464	1.5813	2.0182	2.1346
SAMPLE 3	2.1315	2.0095	1.5638	1.6061	1.4274	1.6267	1.7688

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1026-60	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: IDV

	25%	50%	95%
EC (µM)	0.110	0.502	>1.0
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>9.09	>1.99	1

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	35722.2	430.693143	100.00	1.990	0.254443	100.00
0.003	28958.3	1398.4321	81.07	2.074	0.06077	104.23
0.01	31949.7	1944.62396	89.44	1.737	0.176953	87.31
0.032	30880.3	3302.81415	86.45	1.798	0.221965	90.36
0.101	27084.3	1910.0315	75.82	1.540	0.098158	77.38
0.32	22978.0	1614.02323	64.32	1.836	0.19725	92.31
1	10016.0	695.411389	28.04	1.914	0.19448	96.18



# INHIBITION OF HIV-1<sub>PR 1064-52</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	18068.5	18836.0	20399.0	3623.0	396.0	288.0	320.0
SAMPLE 2	16882.0	16428.0	5721.0	2974.0	412.0	336.0	316.0
SAMPLE 3	17908.0	12915.0	16543.0	2716.0	422.0	240.0	244.0

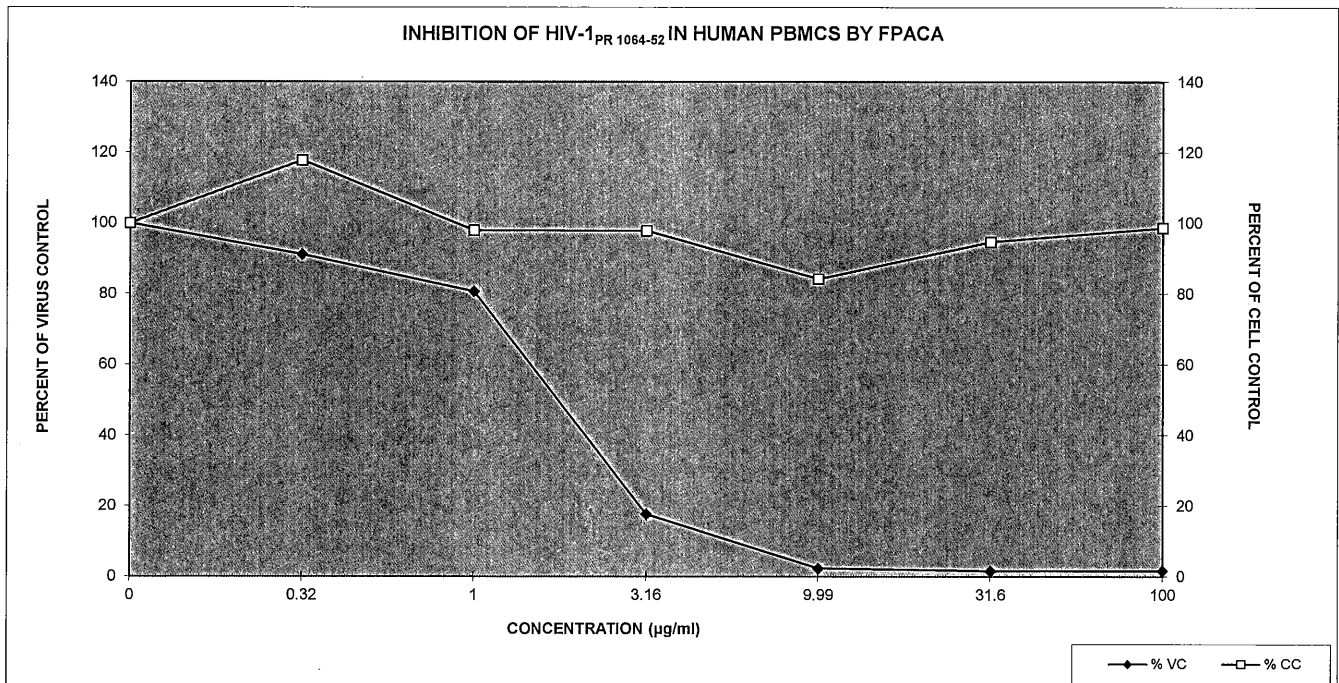
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.0065	2.4396	2.2461	2.0570	1.9011	1.8850	1.8878
SAMPLE 2	1.8557	2.3068	1.9376	1.7942	1.7582	1.7594	1.8943
SAMPLE 3	2.1688	2.3547	1.7231	2.0475	1.4181	2.0667	2.1683

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1064-52	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	1.11	1.75	8.17
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>90.09	>57.14	>12.24

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	17619.5	643.71558	100.00	2.010	0.15658459	100.00
0.32	16059.7	2977.6354	91.15	2.367	0.06725357	117.75
1	14221.0	7609.5127	80.71	1.969	0.26290413	97.94
3.16	3104.3	467.33535	17.62	1.966	0.14906094	97.81
9.99	410.0	13.114877	2.33	1.692	0.24811873	84.19
31.6	288.0	48	1.63	1.904	0.1545011	94.70
100	293.3	42.770706	1.66	1.983	0.15894889	98.63



# INHIBITION OF HIV-1<sub>PR 1064-52</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	18068.5	12840.0	9323.0	7806.0	340.0	348.0	266.0
SAMPLE 2	16882.0	12133.0	10515.0	4435.0	656.0	270.0	244.0
SAMPLE 3	17908.0	22423.0	8806.0	5845.0	582.0	318.0	260.0

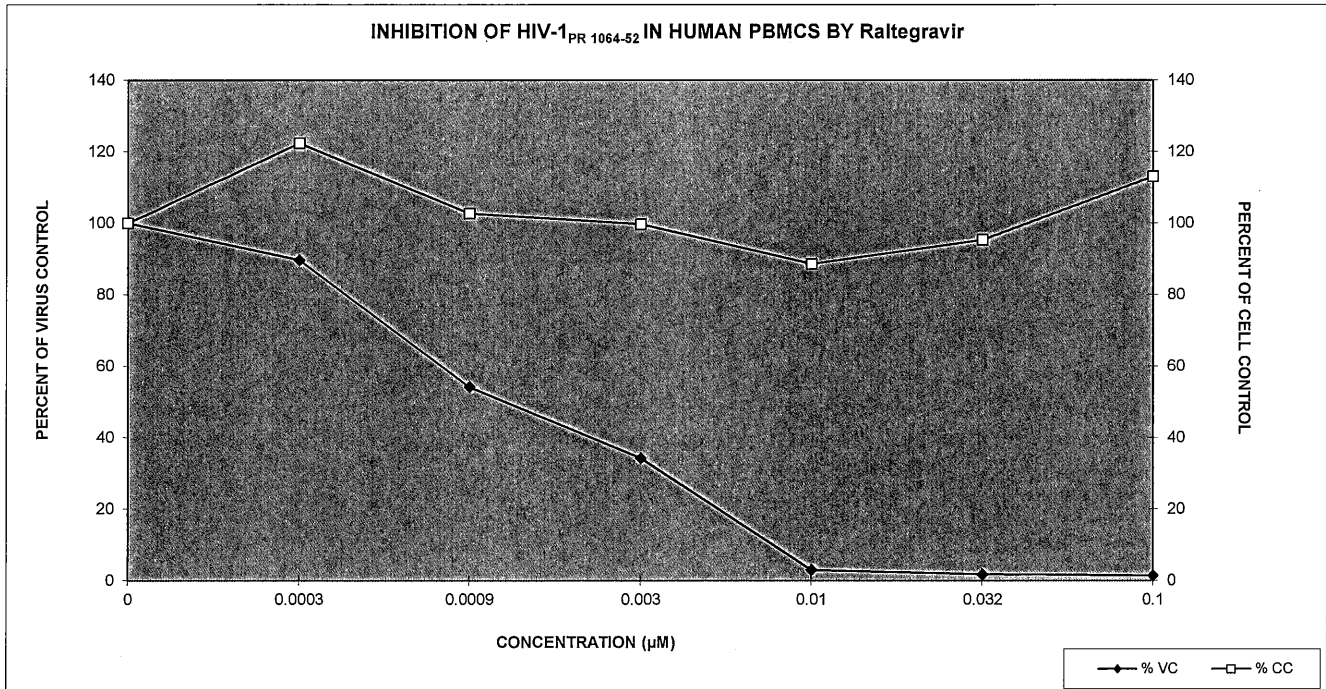
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.0065	2.5022	2.2388	2.0260	1.7959	1.9679	2.1266
SAMPLE 2	1.8557	2.4523	1.8739	2.0178	1.8203	2.0608	2.4253
SAMPLE 3	2.1688	2.4240	2.0778	1.9673	1.7242	1.7222	2.2671

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1064-52	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	4.72E-04	0.00116	0.00925
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>211.86	>86.21	>10.81

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	17619.5	643.715582	100.00	2.010	0.156585	100.00
0.0003	15798.7	5747.72184	89.67	2.460	0.039594	122.34
0.0009	9548.0	876.435394	54.19	2.064	0.18287	102.65
0.003	6028.7	1692.98858	34.22	2.004	0.031789	99.67
0.01	526.0	165.275528	2.99	1.780	0.049952	88.55
0.032	312.0	39.3446311	1.77	1.917	0.174952	95.36
0.1	256.7	11.3724814	1.46	2.273	0.149437	113.07



# INHIBITION OF HIV-1<sub>PR 1064-52</sub> IN HUMAN PBMCs BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	18068.5	11974.0	20504.0	6190.0	1453.0	338.0	270.0
SAMPLE 2	16882.0	18833.0	14778.0	12911.0	3148.0	392.0	286.0
SAMPLE 3	17908.0	22260.0	19397.0	9736.0	2606.0	410.0	290.0

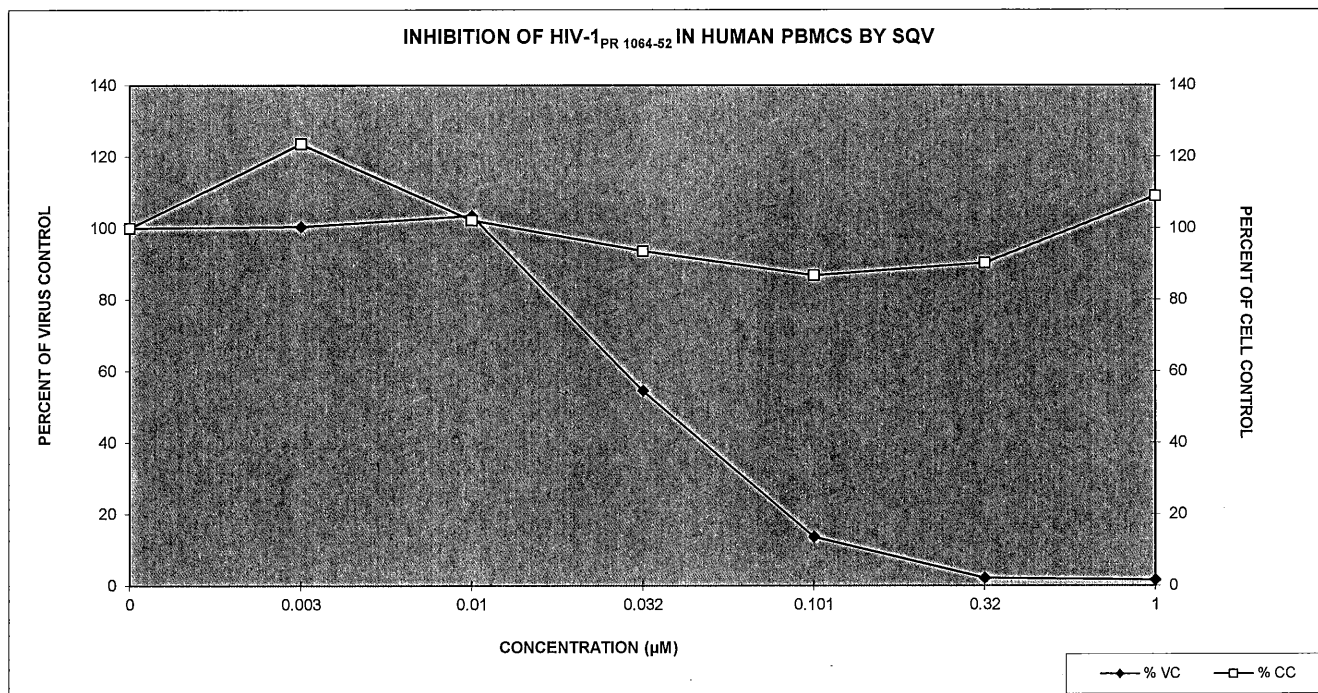
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.0065	2.4485	1.9654	1.9421	1.6363	1.7561	1.8878
SAMPLE 2	1.8557	2.5505	2.0444	1.6878	1.8107	1.8253	2.3677
SAMPLE 3	2.1688	2.4543	2.1523	2.0138	1.7895	1.8655	2.3179

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1064-52	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	0.0197	0.0364	0.240
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>50.76	>27.47	>4.17

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	17619.5	643.715582	100.00	2.010	0.156585	100.00
0.003	17689.0	5237.55678	100.39	2.484	0.057289	123.59
0.01	18226.3	3037.20502	103.44	2.054	0.093822	102.18
0.032	9612.3	3362.20617	54.56	1.881	0.171311	93.58
0.101	2402.3	865.659479	13.63	1.746	0.095162	86.83
0.32	380.0	37.469988	2.16	1.816	0.055337	90.32
1	282.0	10.5830052	1.60	2.191	0.263872	109.00



# INHIBITION OF HIV-1<sub>PR 1022-48</sub> IN HUMAN PBMCs BY FPACA

Raw Data (FPACA)

RT VALUES (CPM)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	22125.0	22403.0	21550.0	12616.0	1031.0	376.0	268.0
SAMPLE 2	17432.5	20737.0	16842.0	14038.0	3324.0	336.0	330.0
SAMPLE 3	20660.0	21198.0	20690.0	13378.0	4404.0	258.0	232.0

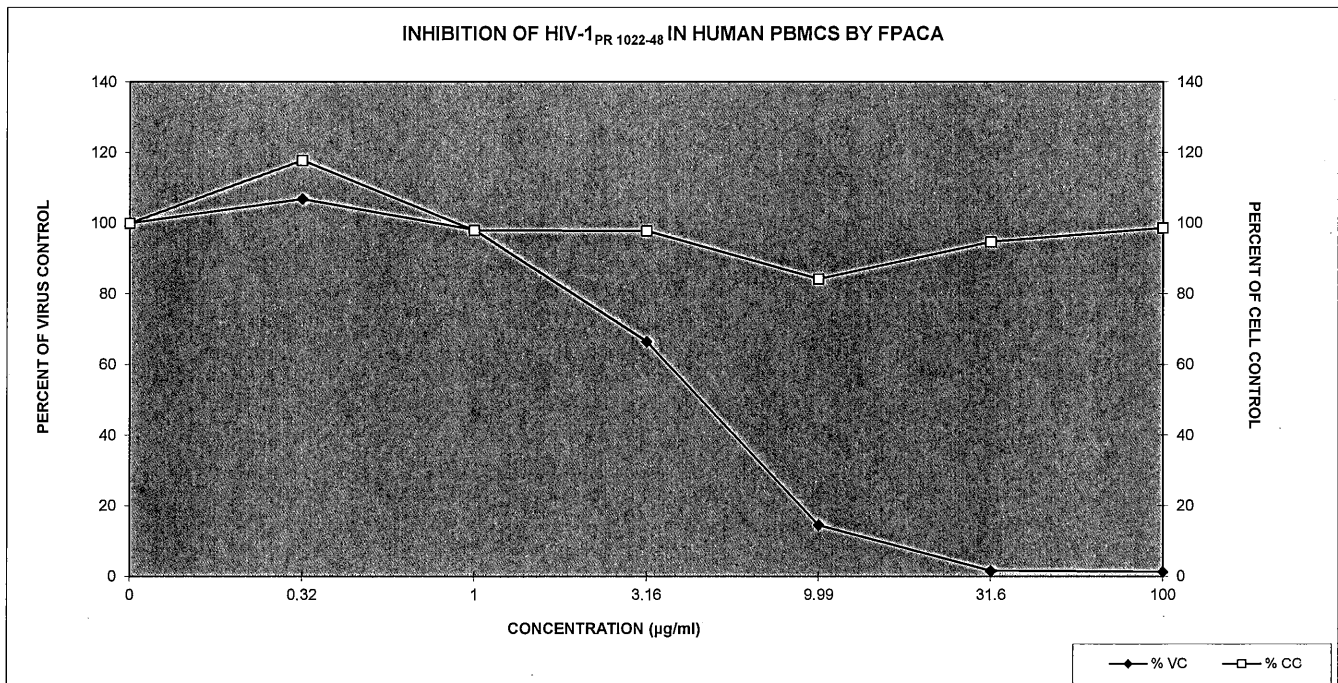
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
Conc. (µg/ml)	0	0.32	1	3.16	9.99	31.6	100
SAMPLE 1	2.0065	2.4396	2.2461	2.0570	1.9011	1.8850	1.8878
SAMPLE 2	1.8557	2.3068	1.9376	1.7942	1.7582	1.7594	1.8943
SAMPLE 3	2.1688	2.3547	1.7231	2.0475	1.4181	2.0667	2.1663

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1022-48	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: FPACA

	25%	50%	95%
EC (µg/ml)	2.32	4.55	23.4
TC (µg/ml)	>100	>100	>100
Therapeutic Index (TI)	>43.10	>21.98	>4.27

Conc (µg/ml)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20072.5	2400.7824	100.00	2.010	0.15658459	100.00
0.32	21446.0	860.24241	106.84	2.367	0.06725357	117.75
1	19694.0	2507.0556	98.11	1.969	0.26290413	97.94
3.16	13344.0	711.60944	66.48	1.966	0.14906094	97.81
9.99	2919.7	1722.4681	14.55	1.692	0.24811873	84.19
31.6	323.3	60.01111	1.61	1.904	0.1545011	94.70
100	276.7	49.571497	1.38	1.983	0.15894889	98.63





# INHIBITION OF HIV-1<sub>PR 1022-48</sub> IN HUMAN PBMCs BY Raltegravir

Raw Data (Raltegravir)

RT VALUES (CPM)							
Conc. (µM)	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	22125.0	13023.0	12093.0	3559.0	390.0	318.0	272.0
SAMPLE 2	17432.5	15223.0	10305.0	7514.0	1049.0	296.0	216.0
SAMPLE 3	20660.0	21550.0	11950.0	5411.0	856.0	256.0	246.0

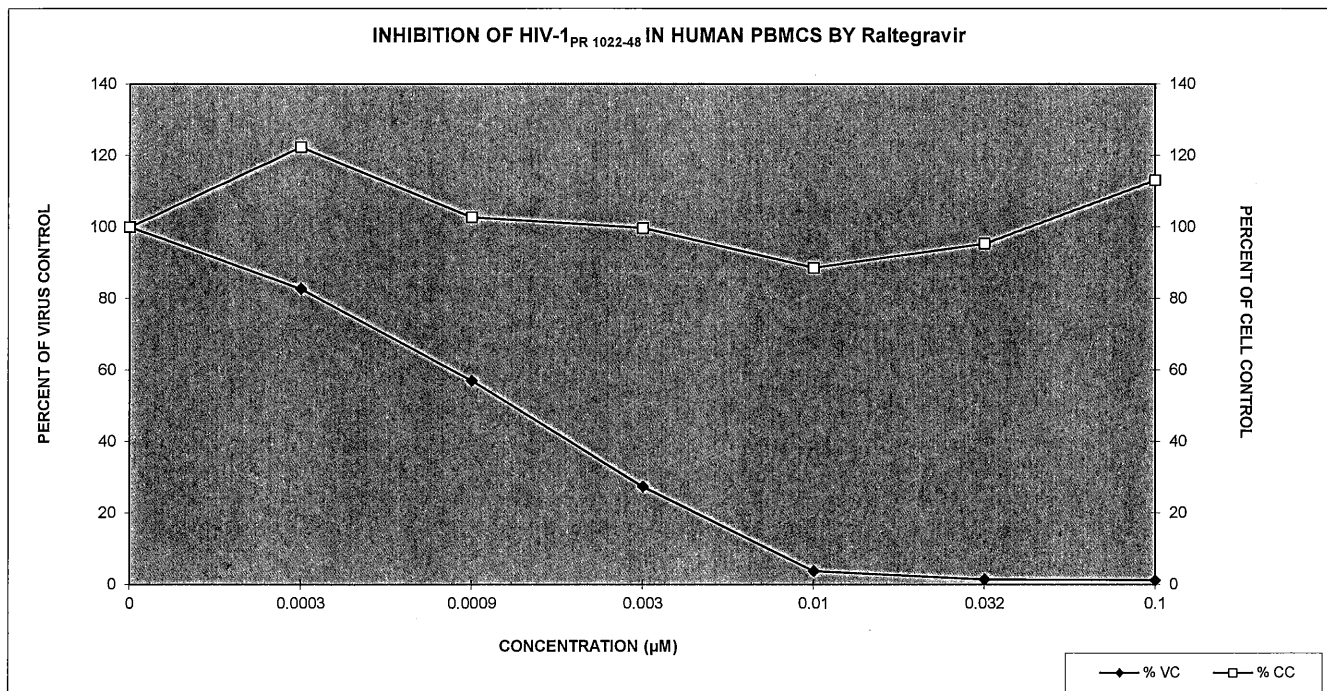
TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.0003	0.0009	0.003	0.01	0.032	0.1
SAMPLE 1	2.0065	2.5022	2.2388	2.0260	1.7959	1.9679	2.1266
SAMPLE 2	1.8557	2.4523	1.8739	2.0178	1.8203	2.0608	2.4253
SAMPLE 3	2.1688	2.4240	2.0778	1.9673	1.7242	1.7222	2.2671

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1022-48	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: Raltegravir

	25%	50%	95%
EC (µM)	4.17E-04	0.00120	0.00941
TC (µM)	>0.1	>0.1	>0.1
Therapeutic Index (TI)	>239.81	>83.33	>10.63

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20072.5	2400.78242	100.00	2.010	0.156585	100.00
0.0003	16598.7	4426.82463	82.69	2.460	0.039594	122.34
0.0009	11449.3	993.597672	57.04	2.064	0.18287	102.65
0.003	5494.7	1978.82701	27.37	2.004	0.031789	99.67
0.01	765.0	338.793447	3.81	1.780	0.049952	88.55
0.032	290.0	31.4324673	1.44	1.917	0.174952	95.36
0.1	244.7	28.0237994	1.22	2.273	0.149437	113.07



# INHIBITION OF HIV-1<sub>PR 1022-48</sub> IN HUMAN PBMCs BY SQV

Raw Data (SQV)

RT VALUES (CPM)							
Conc (µM)	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	22125.0	11640.0	10092.0	4143.0	468.0	254.0	268.0
SAMPLE 2	17432.5	17777.0	11345.0	7959.0	472.0	256.0	232.0
SAMPLE 3	20660.0	15963.0	13603.0	3751.0	836.0	238.0	202.0

TOXICITY VALUES (XTT - O. D. @ 450/650 nm)							
SAMPLE 1	0	0.003	0.01	0.032	0.101	0.32	1
SAMPLE 1	2.0065	2.4485	1.9654	1.9421	1.6363	1.7561	1.8878
SAMPLE 2	1.8557	2.5505	2.0444	1.6878	1.8107	1.8253	2.3677
SAMPLE 3	2.1688	2.4543	2.1523	2.0138	1.7895	1.8655	2.3179

Virus:	HIV-1	Clade:	UNKNOWN	Technician:	Lu Yang	Setup Date:	8/6/14
Strain:	PR 1022-48	Cells:	HUMAN PBMCs	PI:	Tracy Hartman	Read Date:	8/13/14
Tropism:	UNKNOWN	Project #:	306-01-04	Client:	CJSC		

Antiviral Compound: SQV

	25%	50%	95%
EC (µM)	0.00308	0.0135	0.0913
TC (µM)	>1.0	>1.0	>1.0
Therapeutic Index (TI)	>324.68	>74.07	>10.95

Conc (µM)	Antiviral Test Values			Cytotoxicity Test Values		
	Mean RLU	St. Dev.	% Virus Control	Mean OD @ 450/650 nm	St. Dev.	% Cell Viability
0	20072.5	2400.78242	100.00	2.010	0.156585	100.00
0.003	15126.7	3152.82133	75.36	2.484	0.057289	123.59
0.01	11680.0	1779.31138	58.19	2.054	0.093822	102.18
0.032	5284.3	2324.60692	26.33	1.881	0.171311	93.58
0.101	592.0	211.319663	2.95	1.746	0.095162	86.83
0.32	249.3	9.86576572	1.24	1.816	0.055337	90.32
1	234.0	33.0454233	1.17	2.191	0.263872	109.00

