

Fig. 1A

VH		1	50
BLW-2B4-gamma	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNAAWSWIRQSPSRGLEWL
BLW-3B4-gamma	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNAAWSWIRQSPSRGLEWL
BLX-1F8-gamma	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNAAWSWIRQSPSRGLEWL
BLX-3G8-gamma	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNAAWTWIRQSPSRGLEWL
BLX-3F4-gamma	(1)	QVRLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNAAWSWIRQSPSRGLEWL
BLW-2E6-gamma	(1)	QVQLQQSGPRLVRLPSQTL	SLTCAISGDSVFNNNAAWSWIRQSPSRGLEWL
BLX-2E9-gamma	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVFNNNGAWSWIRQSPSRGLEWL
IGHV6-1*01_Homo	(1)	QVQLQQSGPGLVKPSQTL	SLTCAISGDSVSSNSAAWNWIRQSPSRGLEWL
		CDR1	
		51	100
BLW-2B4-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLNSVTPEDTALYYCV
BLW-3B4-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLNSVTPEDTALYYCV
BLX-1F8-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLKSVTPEDTALYYCS
BLX-3G8-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLKSVTPEDTALYYCS
BLX-3F4-gamma	(51)	GRTYYRSKWLYDYAVTVKS	RITVNPDTSRNQFTLQLTSVTPEDTALYYCA
BLW-2E6-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLNSVTPEDTALYYCA
BLX-2E9-gamma	(51)	GRTYYRSKWLYDYAVSVKS	RITVNPDTSRNQFTLQLNSVTPEDTALYYCA
IGHV6-1*01_Homo	(51)	GRTYYRSKWYNDYAVSVKS	RITINPDTSKNQFSLQLNSVTPEDTAVYYCA
		CDR2	
		101	120
BLW-2B4-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLW-3B4-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLX-1F8-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLX-3G8-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLX-3F4-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLW-2E6-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
BLX-2E9-gamma	(101)	RGYSSSF	DYWGQGTLVTVSS
IGHV6-1*01_Homo	(101)	R-----	
		CDR3	

Fig. 1B

VL		1	50
BLW-2B4-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSS RD IGTYKFVSWYQQHPDKAPKVLL	
BLW-3B4-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSS RD IGTYKFVSWYQQHPDKAPKVLL	
BLX-1F8-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSS D IGTYKFVSWYQQHPDKAPKVLL	
BLW-2E6-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSSNIGTYKFVSWYQQHPDKAPKVLL	
BLX-2E9-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSSNIGTYKFVSWYQQHPDKAPKVLL	
BLX-3F4-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSSNIGTYKFVSWYQQHPDKAPKVLL	
BLX-3G8-lambda	(1)	QSALTQPASVSGSPGQSITISCTGTSSNIGTYKFVSWYQQHPDKAPKVLL	
IGLV2-23*02_Homo	(1)	QSALTQPASVSGSPGQSITISCTGTSS DVGSYNL VSWYQQHP GKAPKLMI	
		CDR1	
		51	100
BLW-2B4-lambda	(51)	YEV N KRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLW-3B4-lambda	(51)	YEVSKRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLX-1F8-lambda	(51)	YEVSKRPSGVSSRFSGSKS D NTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLW-2E6-lambda	(51)	YEVSKRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLX-2E9-lambda	(51)	YEVSKRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLX-3F4-lambda	(51)	YEVSKRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
BLX-3G8-lambda	(51)	YEVSKRPSGVSSRFSGSKSGNTASLTISGLQAEDQADYHCCSYAGSGTLL	
IGLV2-23*02_Homo	(51)	YEVSKRPSGV S NRFSGSKSGNTASLTISGLQAED E ADY Y CCSYAGS STF -	
		CDR2	CDR3
		101	
BLW-2B4-lambda	(101)	FGGGTKLTVL	
BLW-3B4-lambda	(101)	FGGGTKLTVL	
BLX-1F8-lambda	(101)	FGGGTKLTVL	
BLW-2E6-lambda	(101)	FGGGTKLTVL	
BLX-2E9-lambda	(101)	FGGGTKLTVL	
BLX-3F4-lambda	(101)	FGGGTKLTVL	
BLX-3G8-lambda	(101)	FGGGTKLTVL	
IGLV2-23*02_Homo	(100)	-----	

Fig. 2

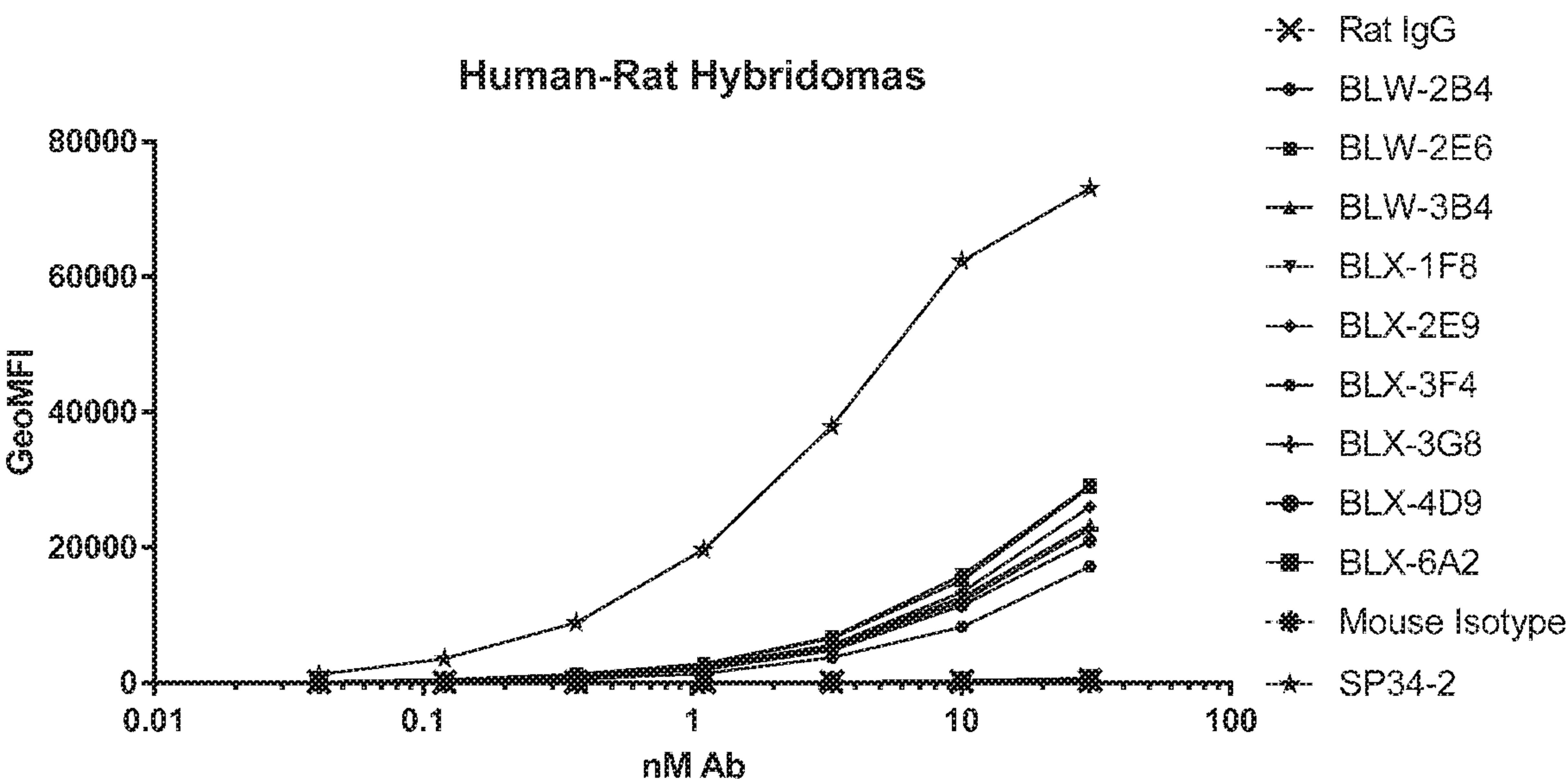


Fig. 3

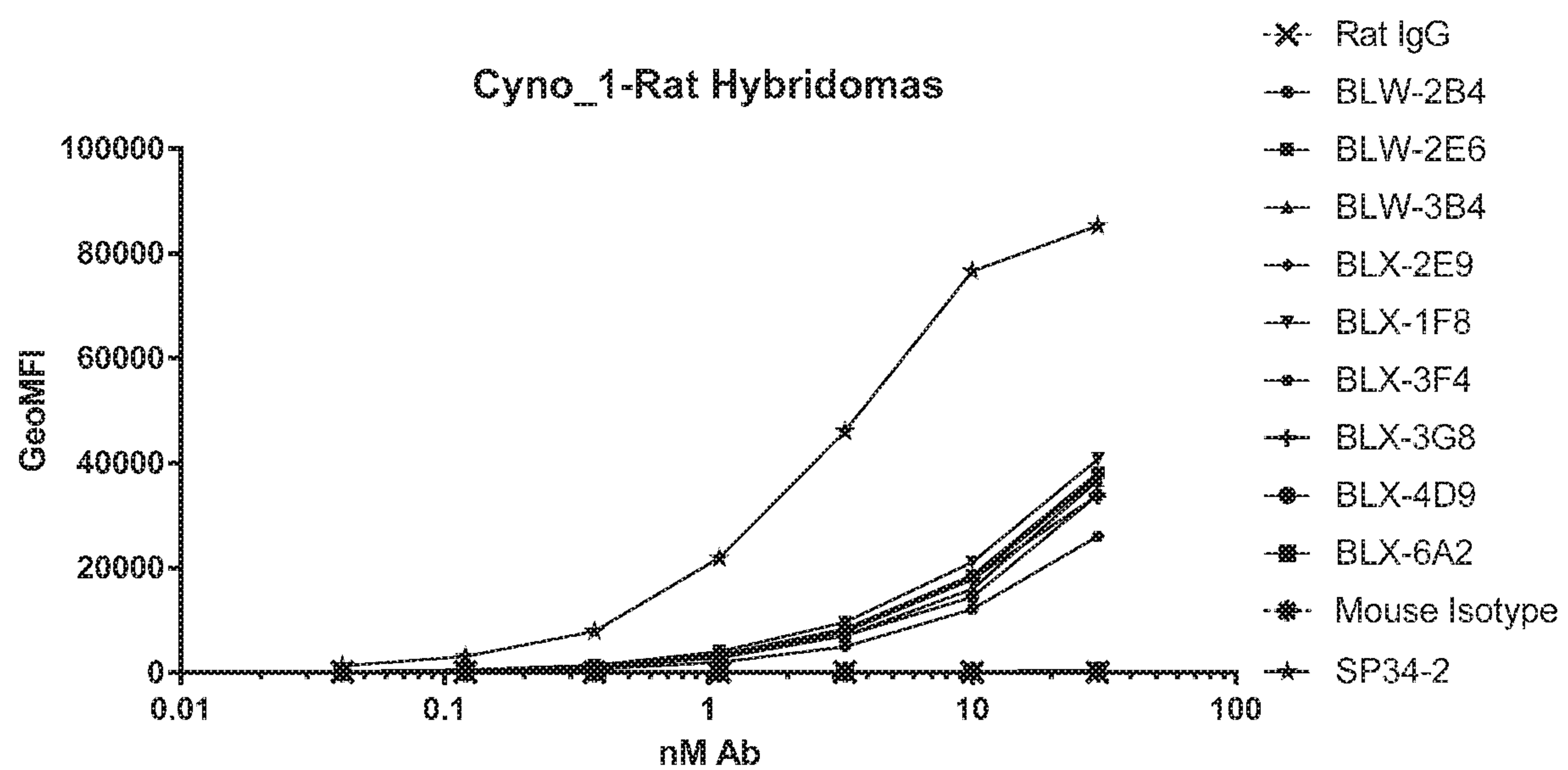


Fig. 4

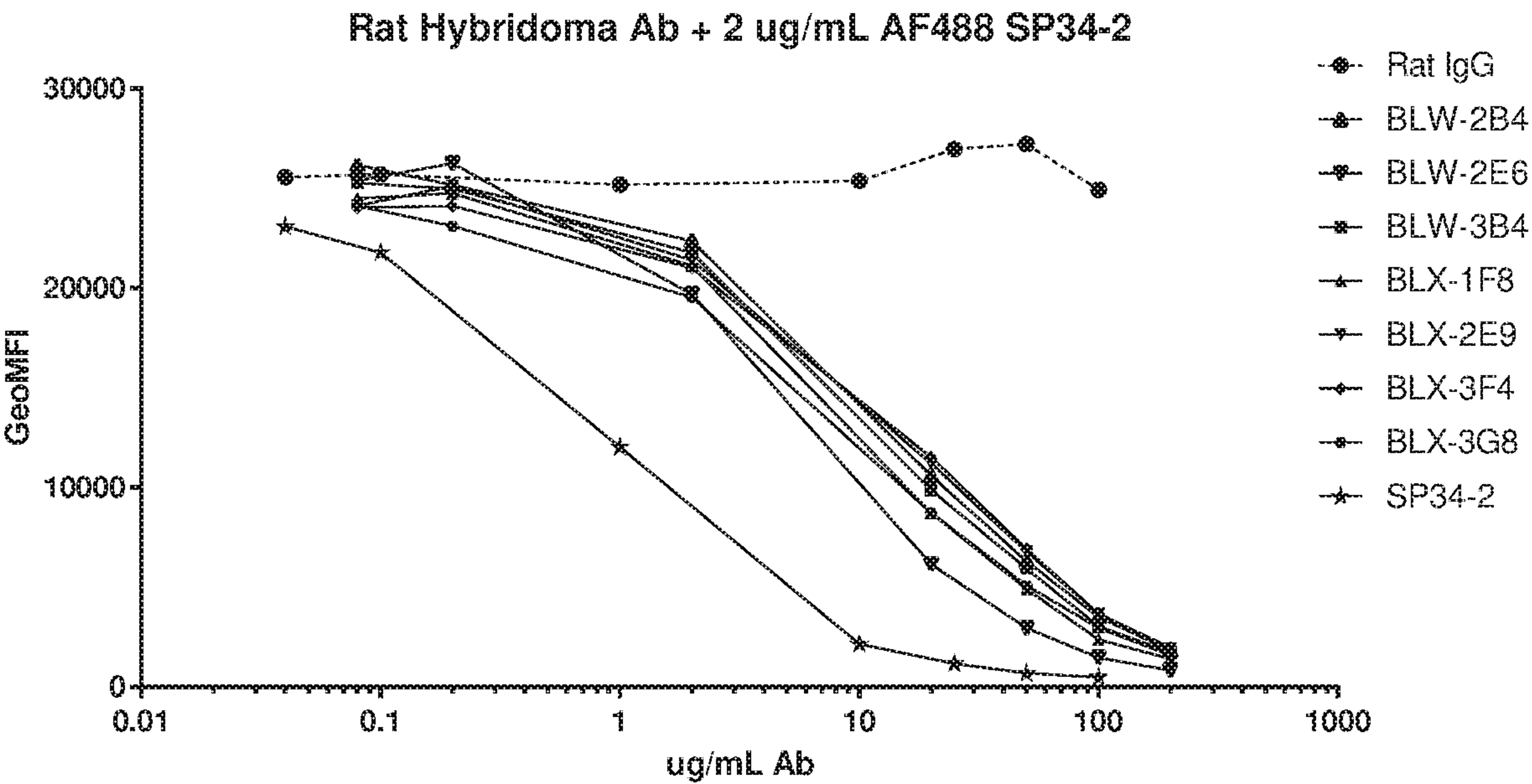


Fig. 5

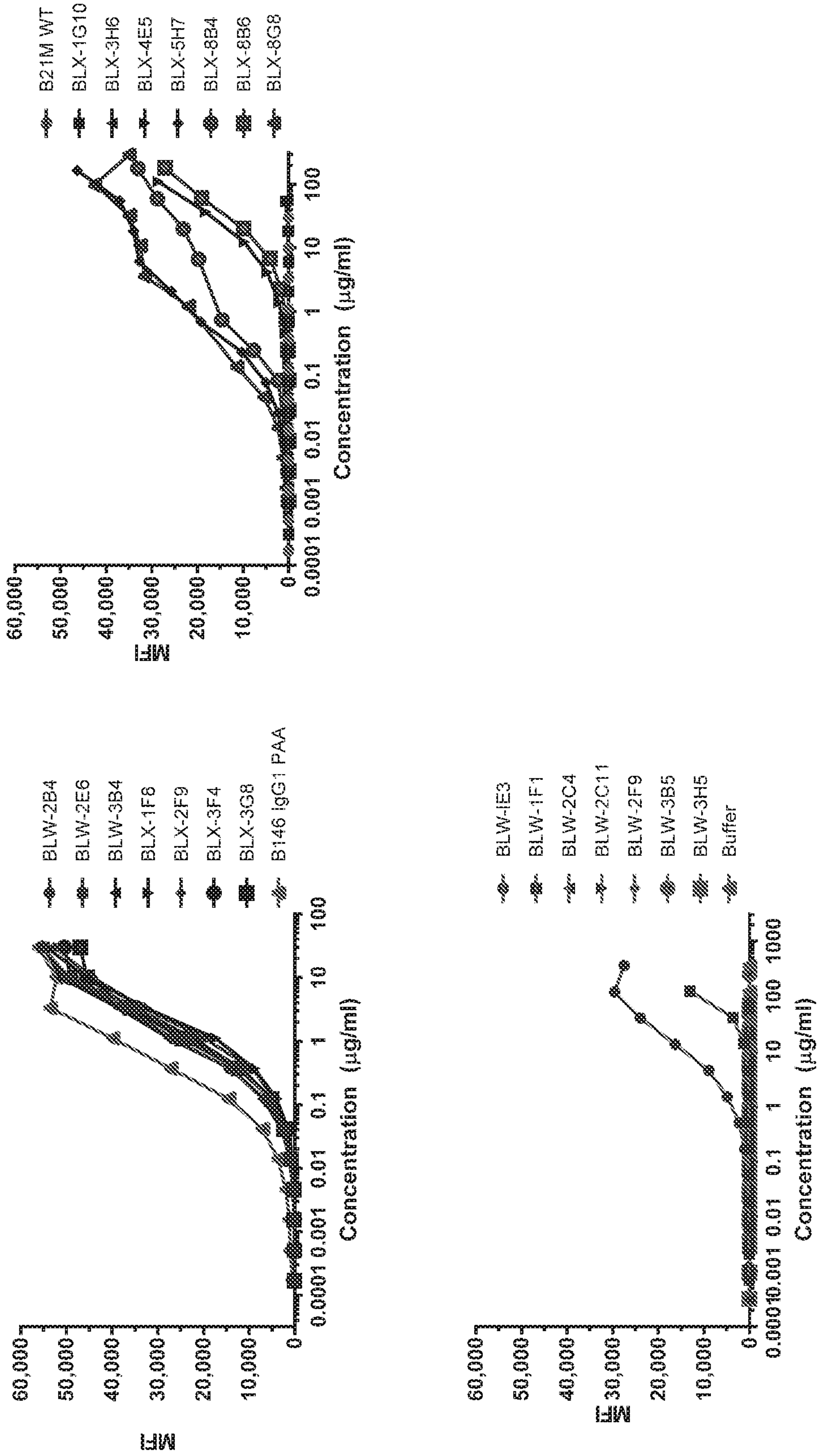


Fig. 6

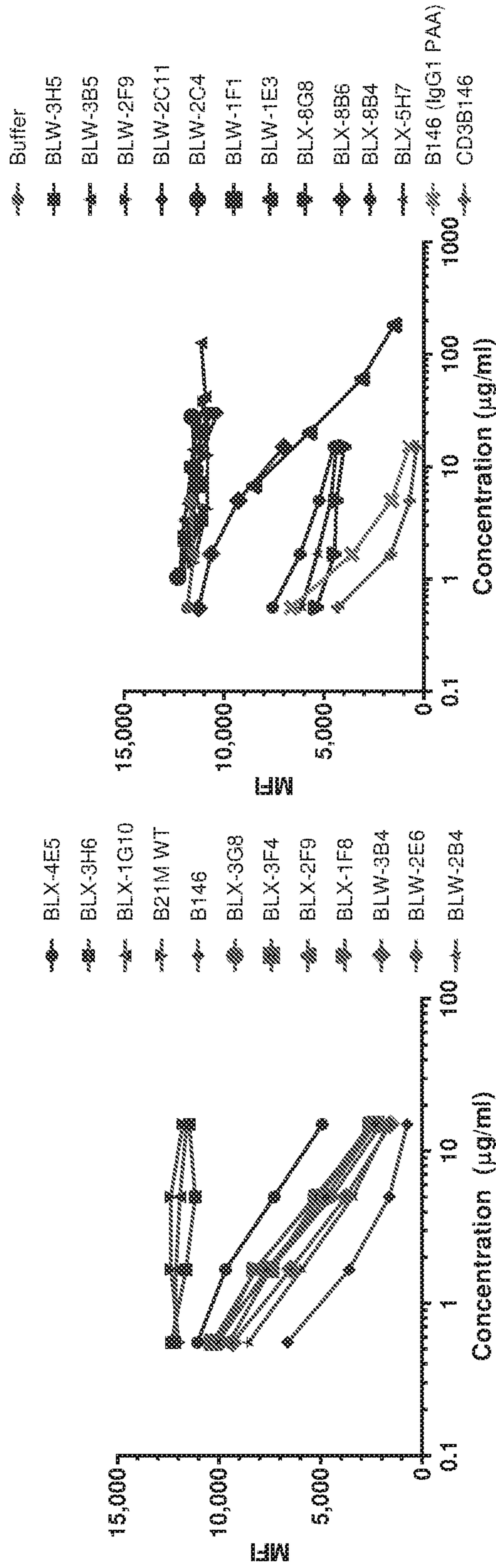


Fig. 7

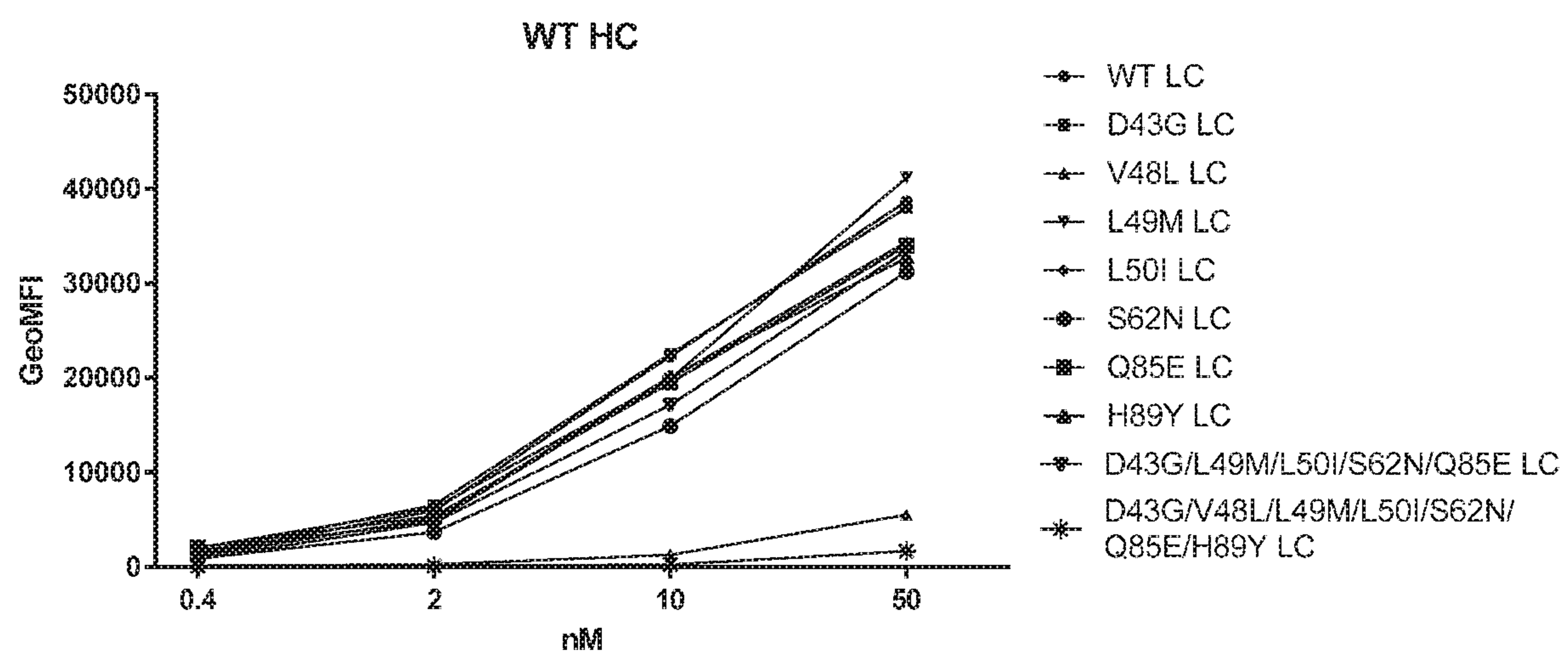


Fig. 8

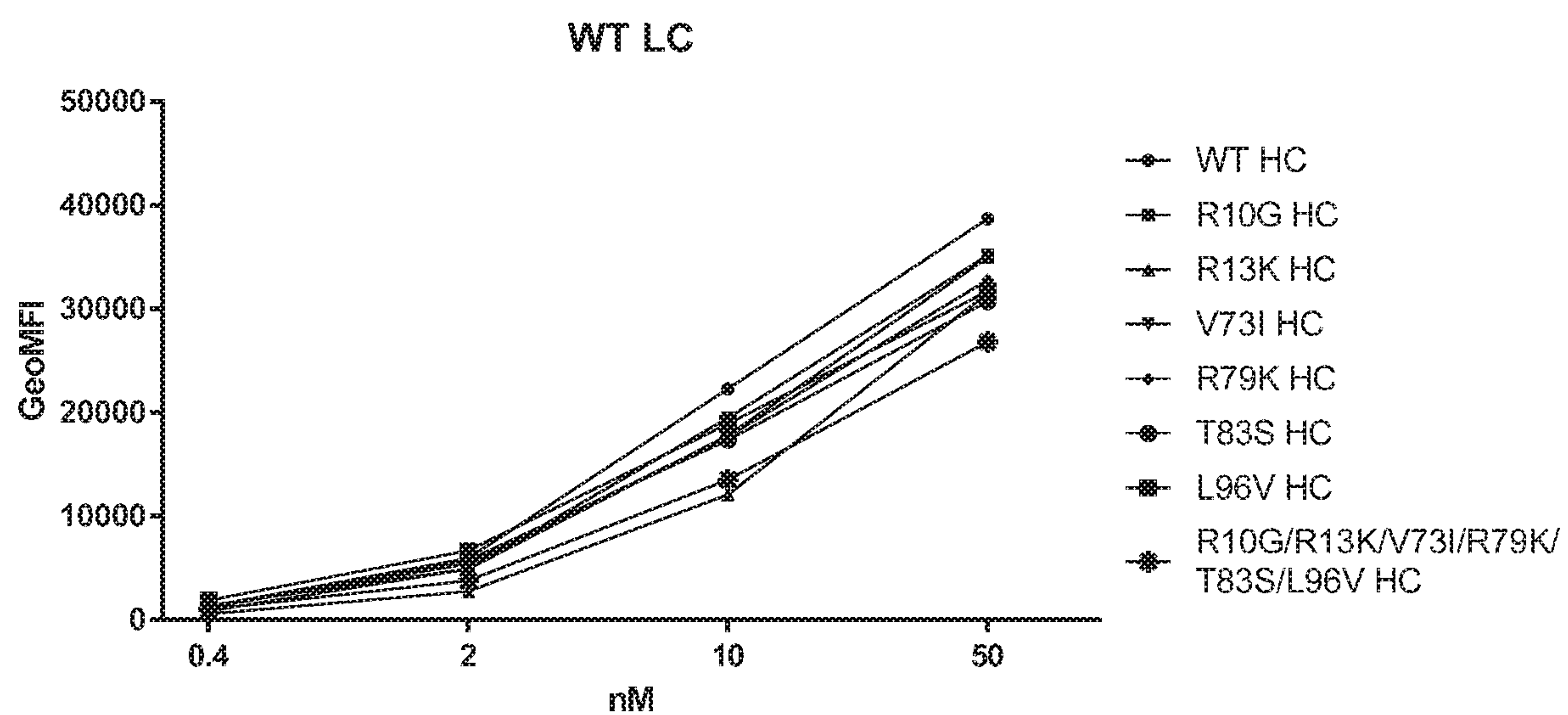


Fig. 9

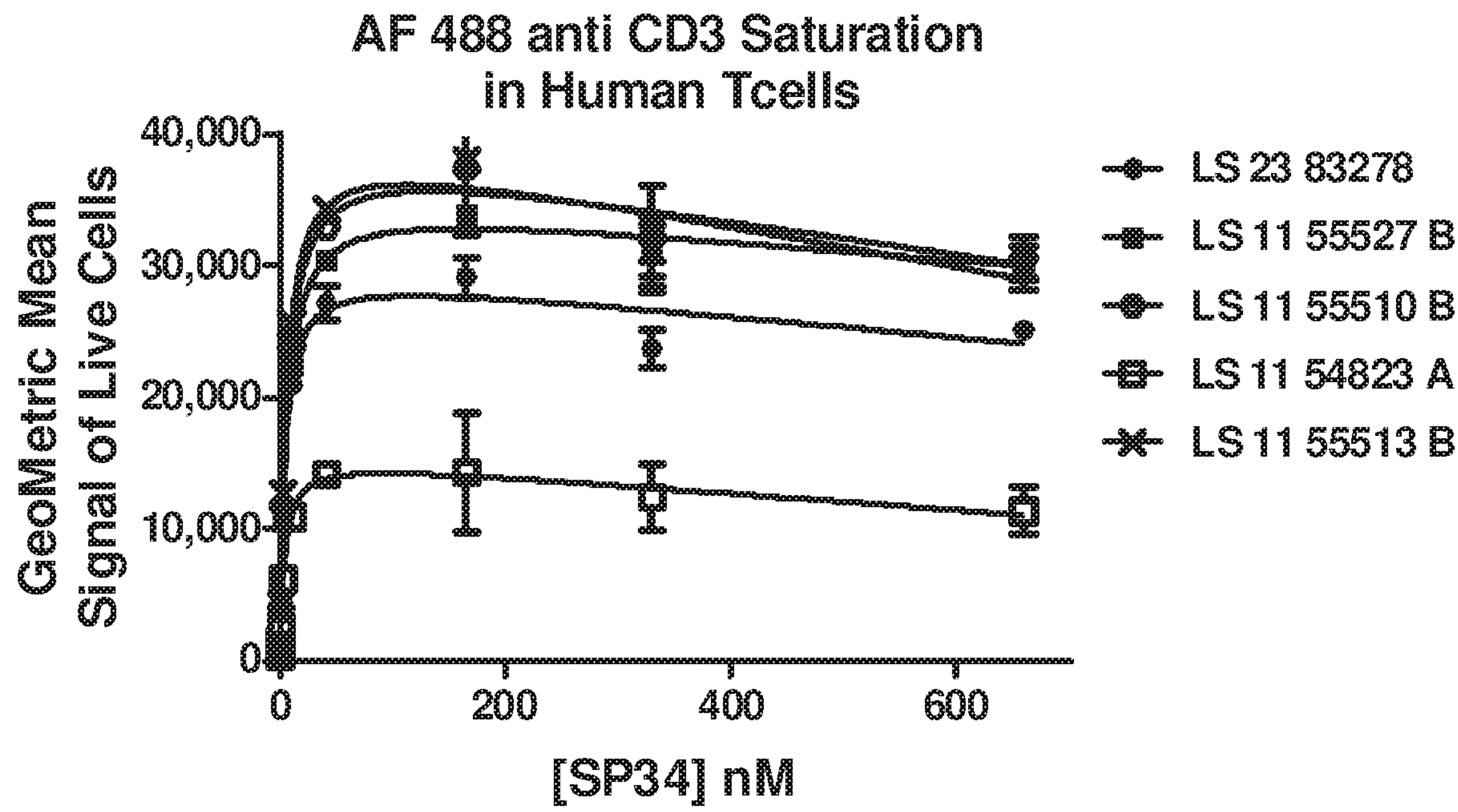


Fig. 10

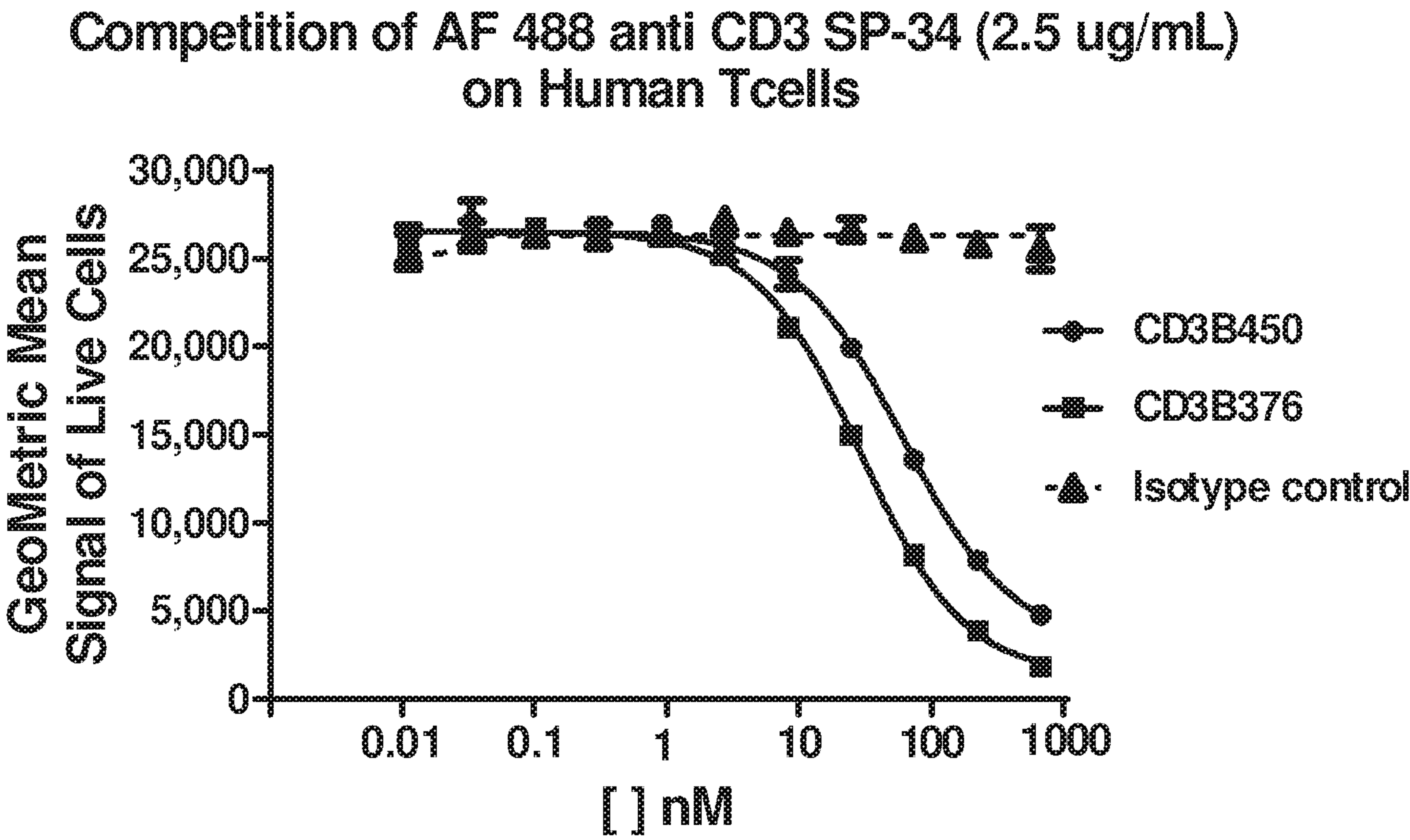


Fig. 11

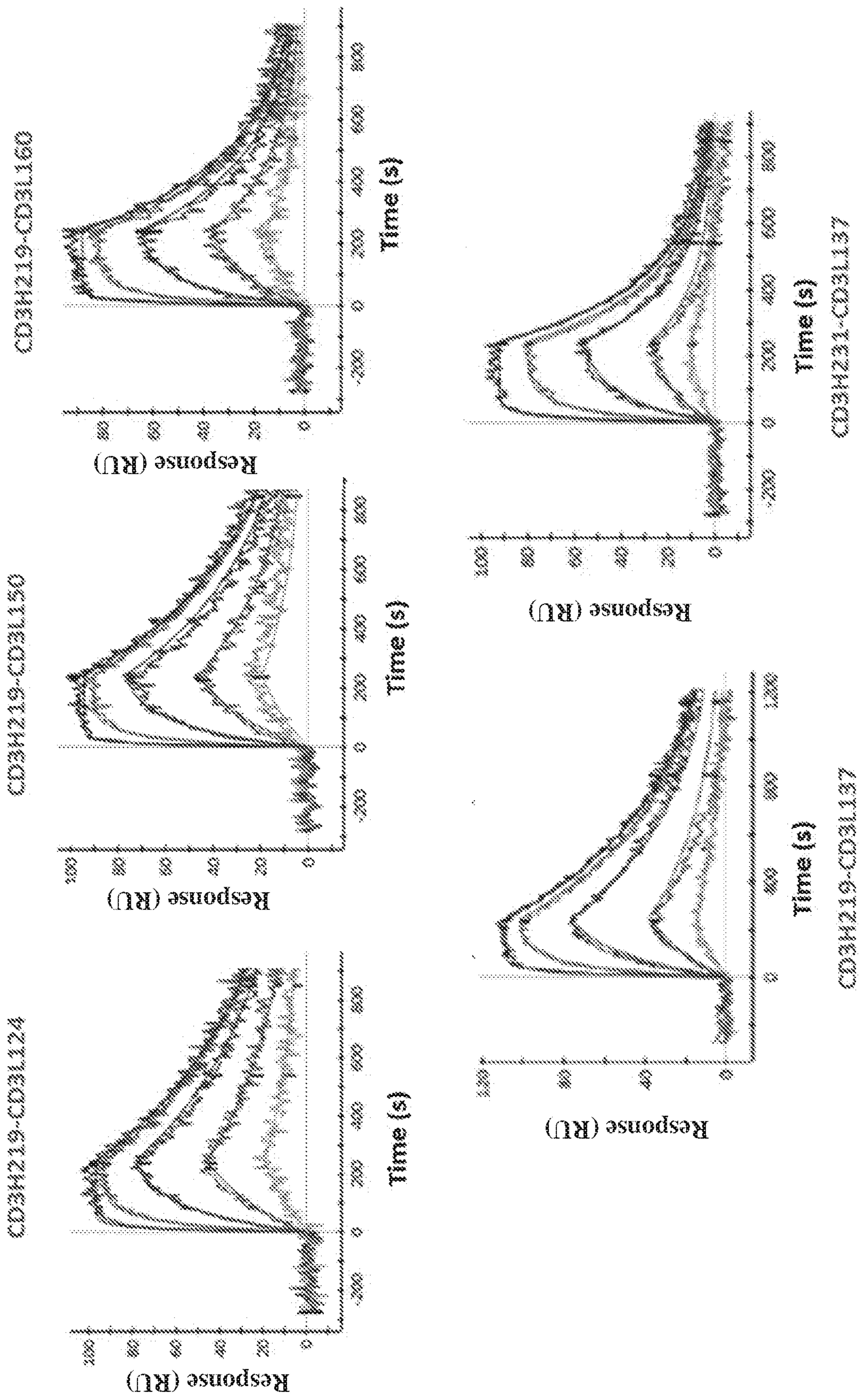


Fig. 12A

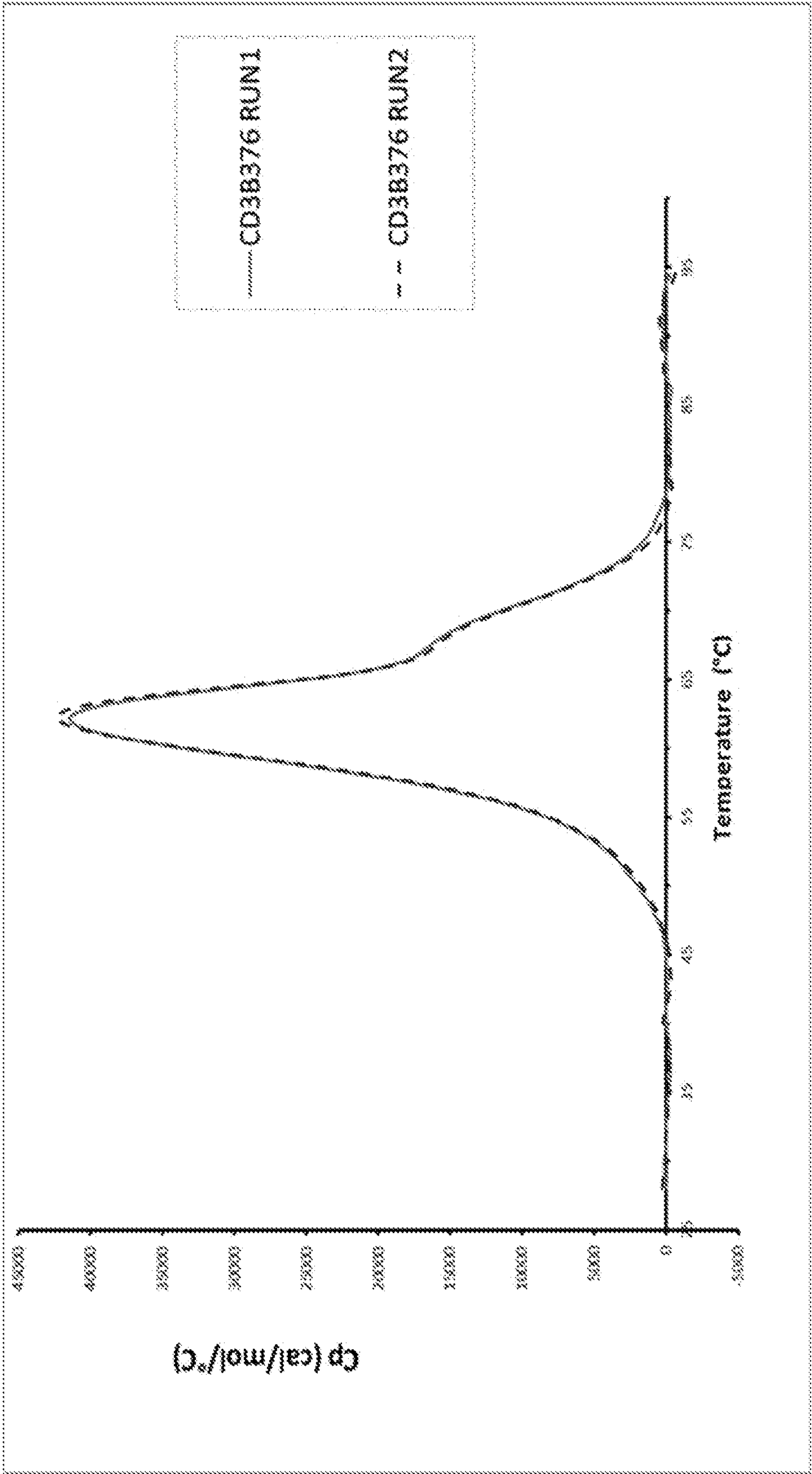


Fig. 12B

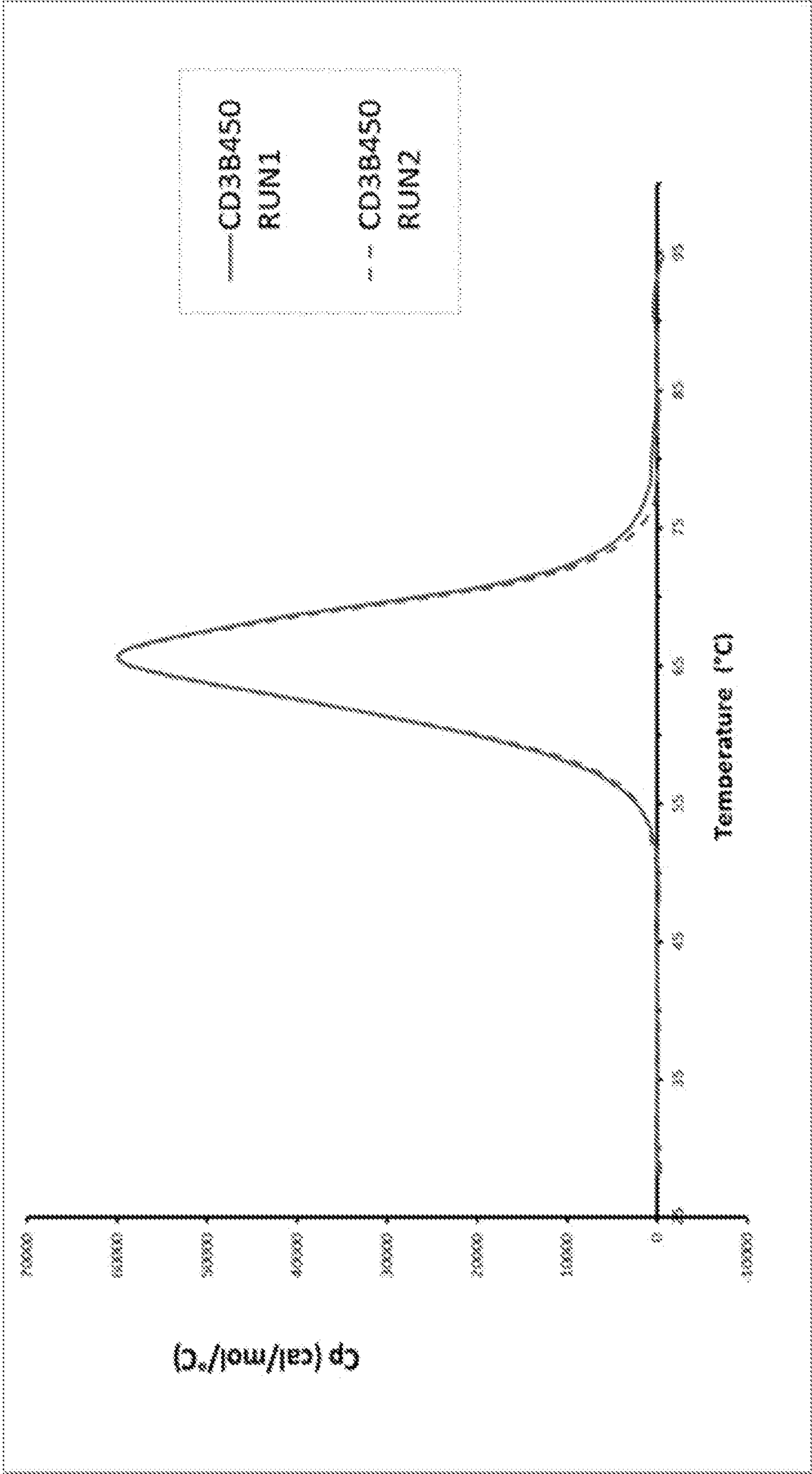


Fig. 12C

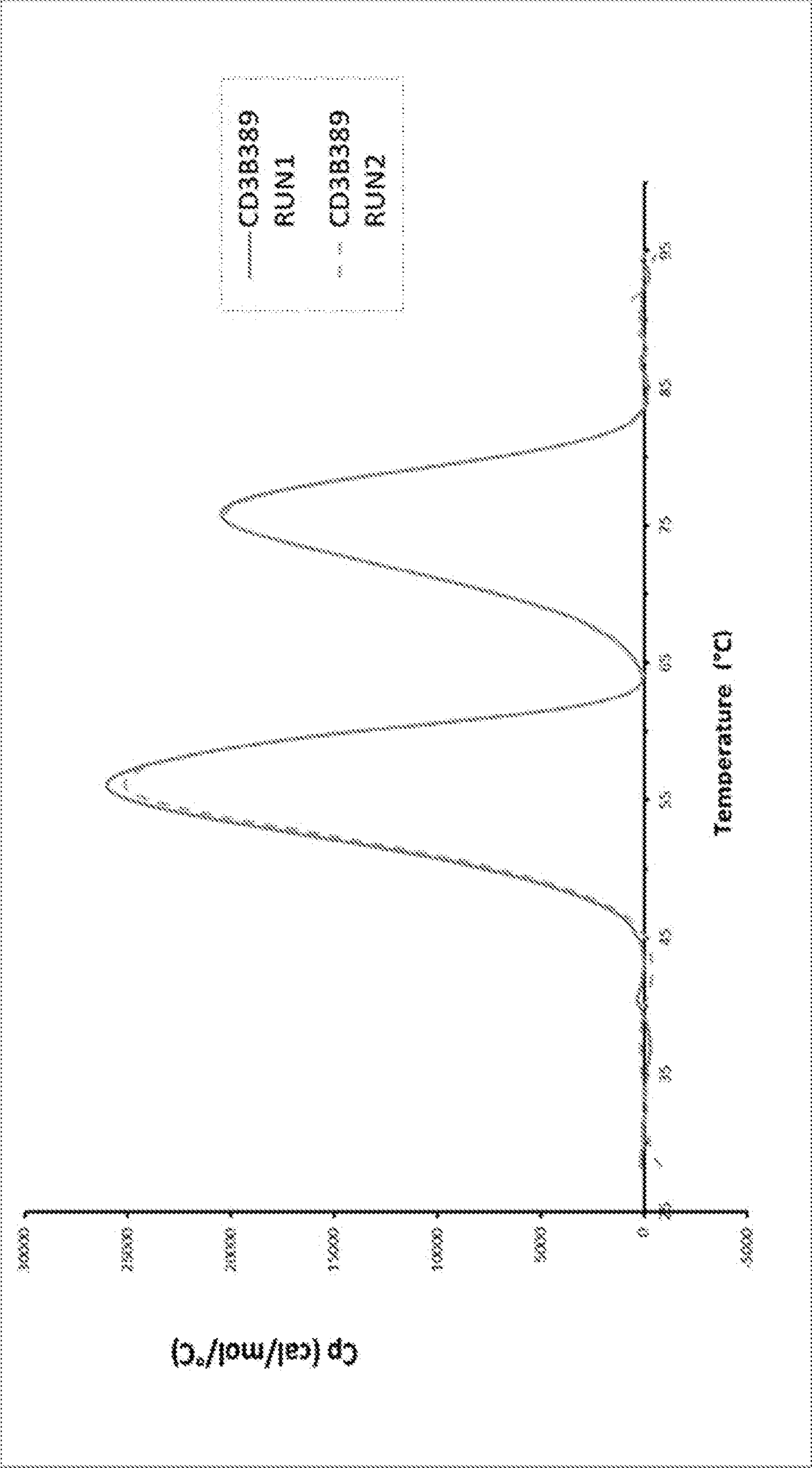


Fig. 12D

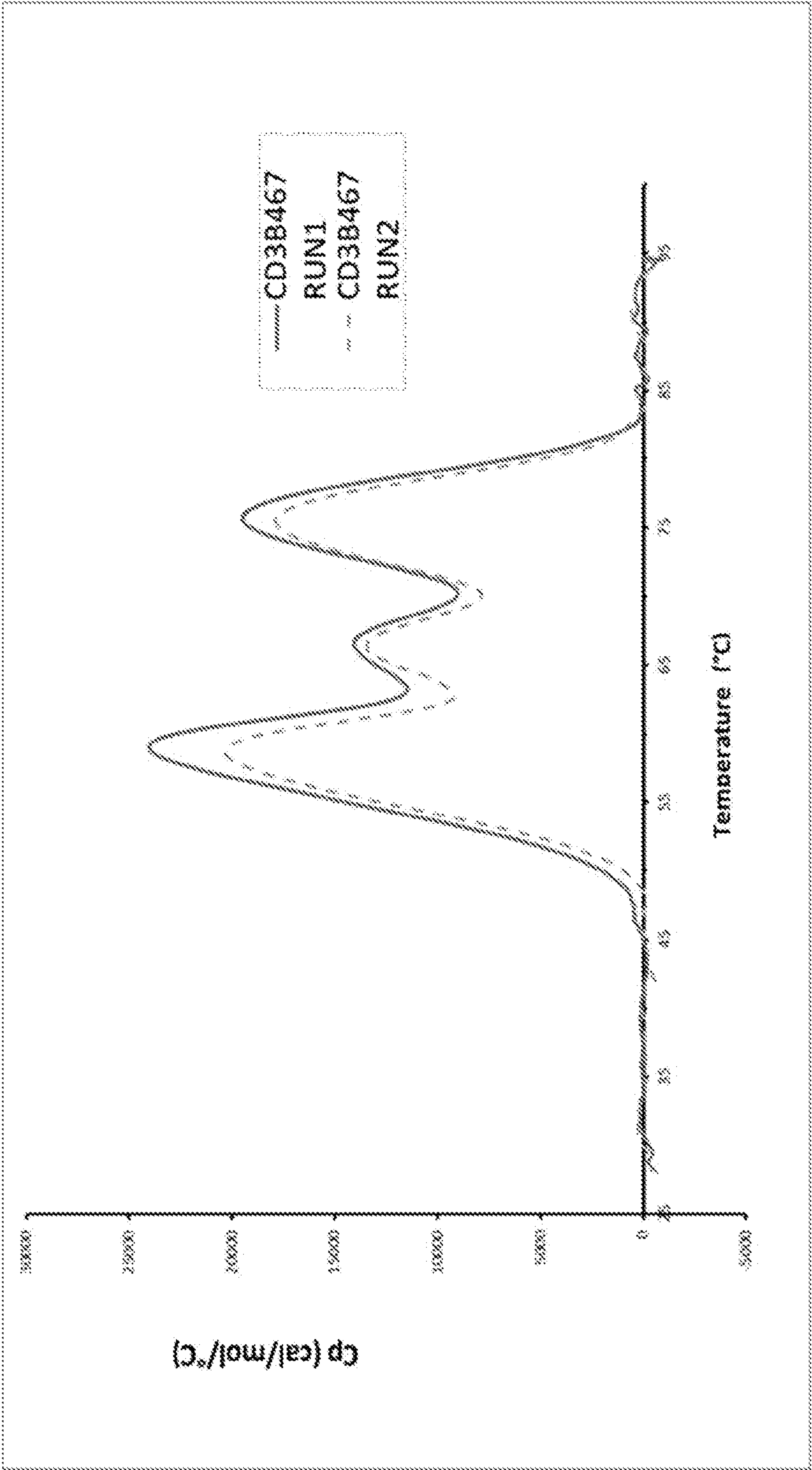


Fig. 12E

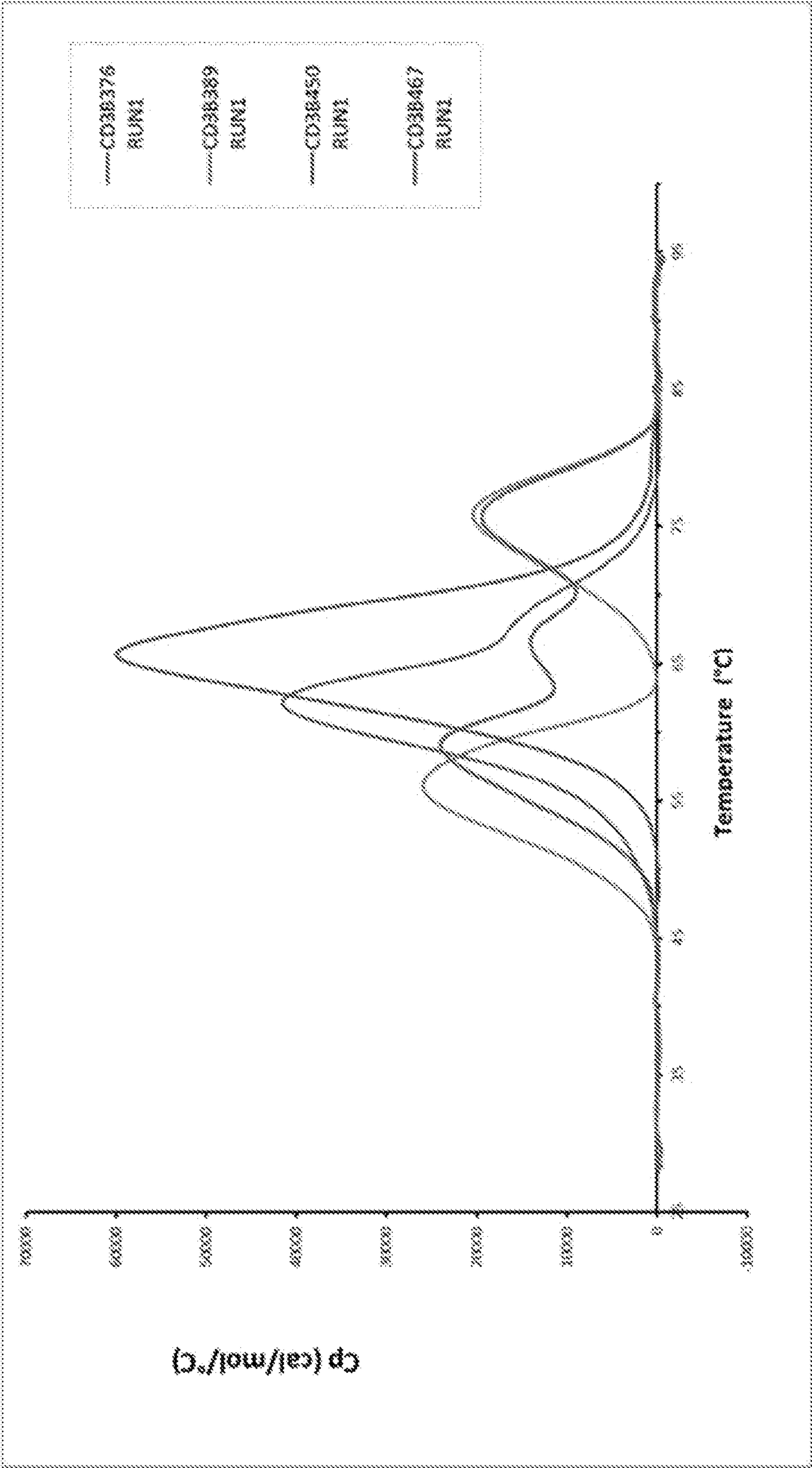


Fig. 13A

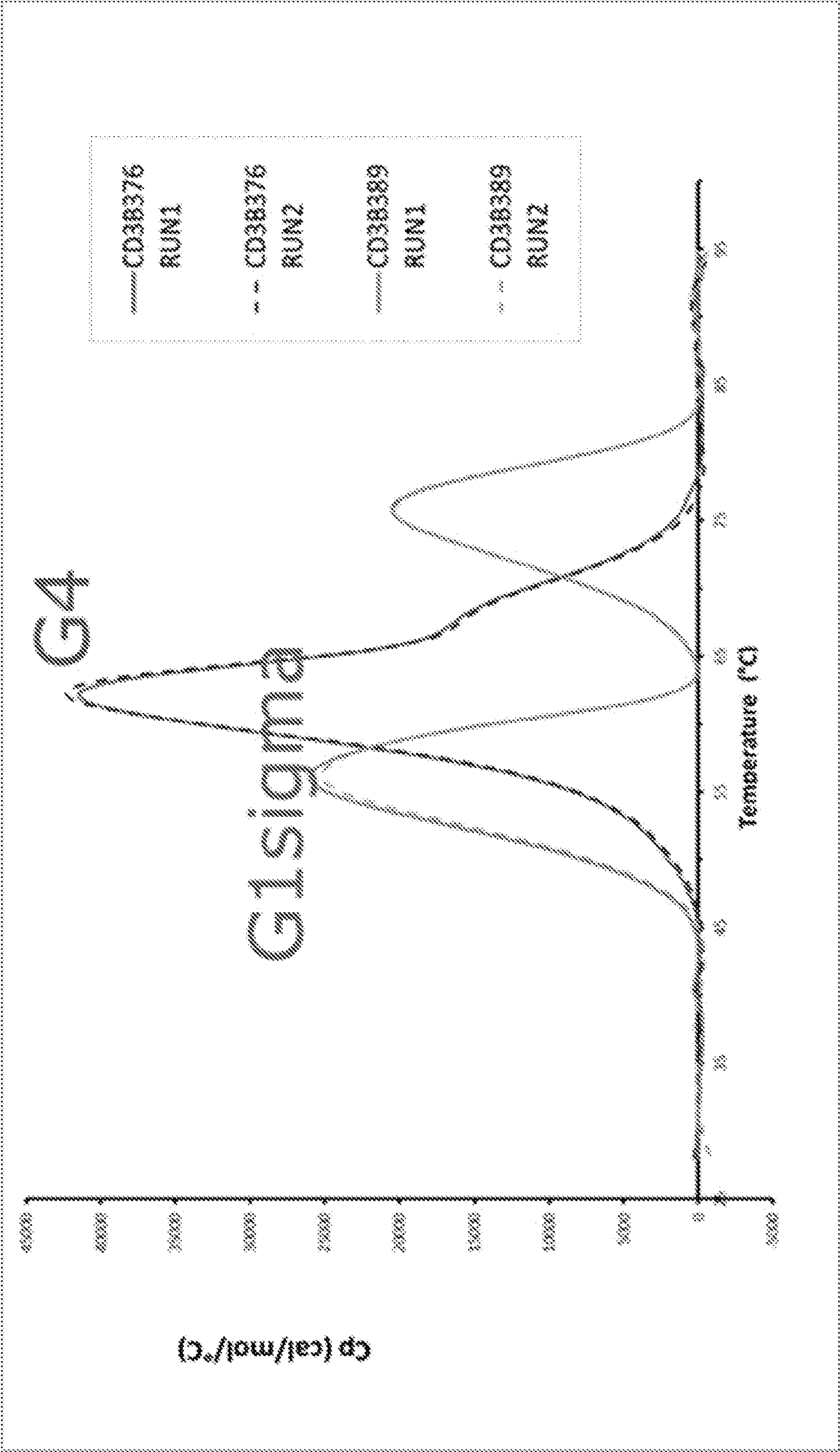


Fig. 13B

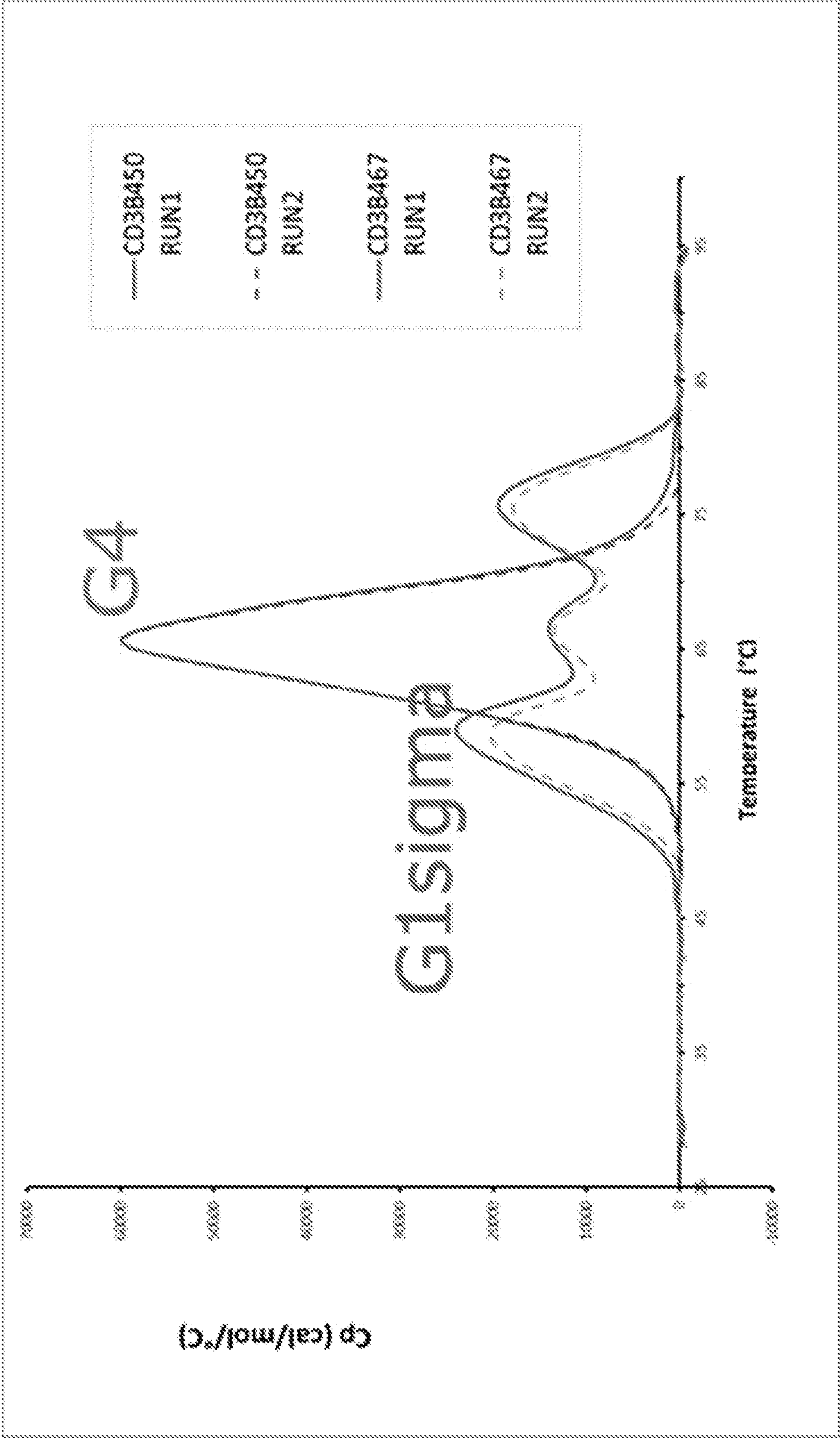


Fig. 14

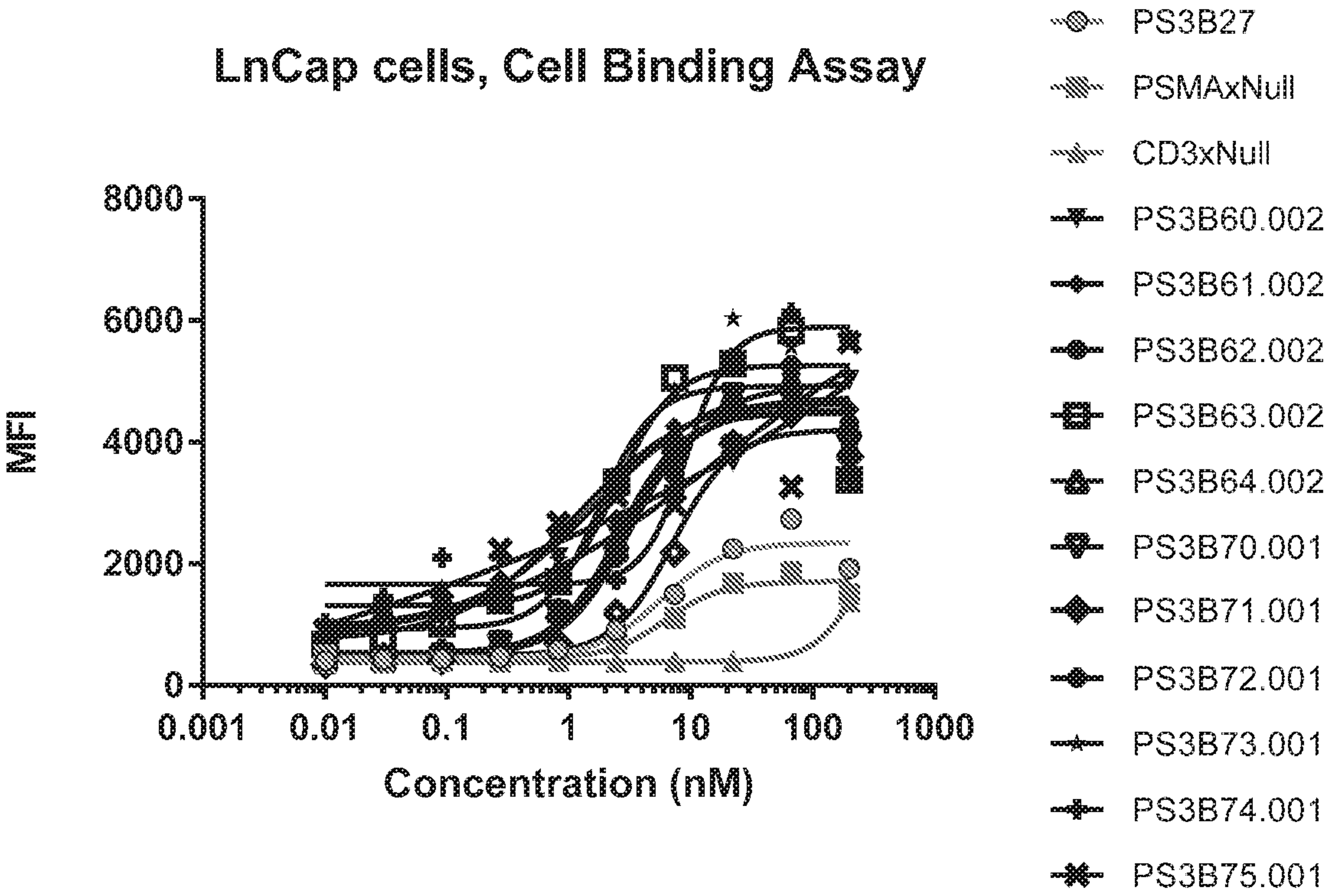


Fig. 15

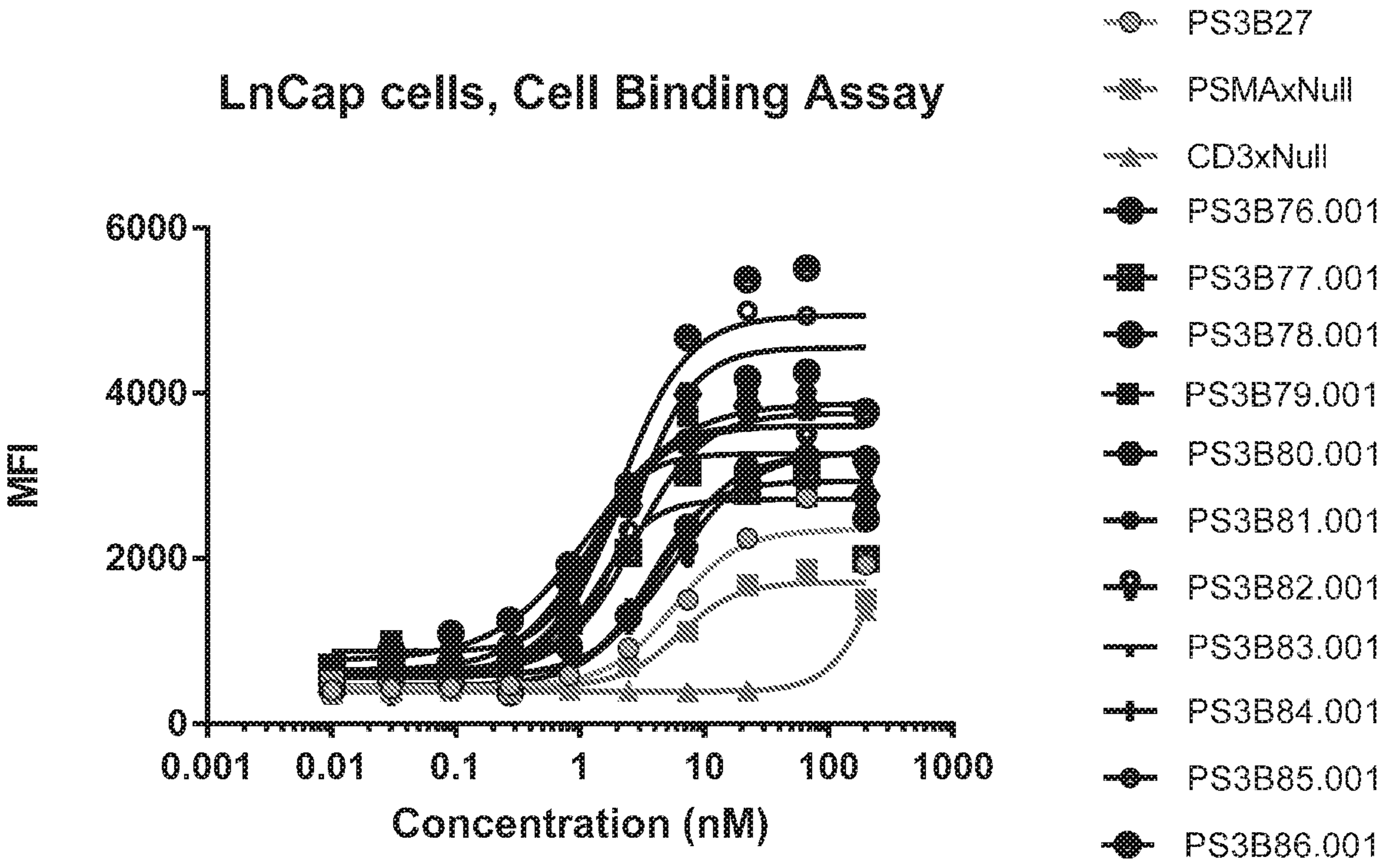


Fig. 16

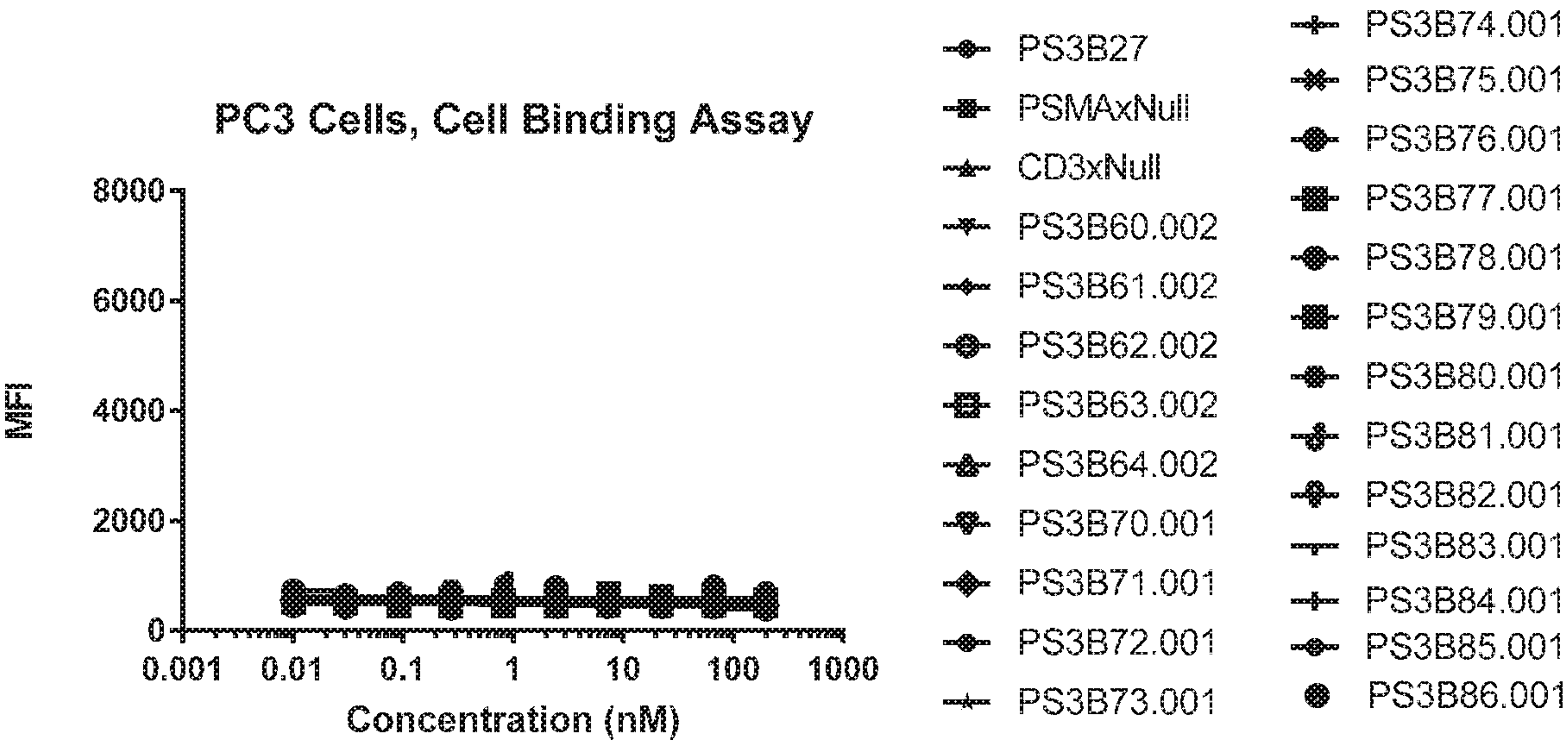


Fig. 17

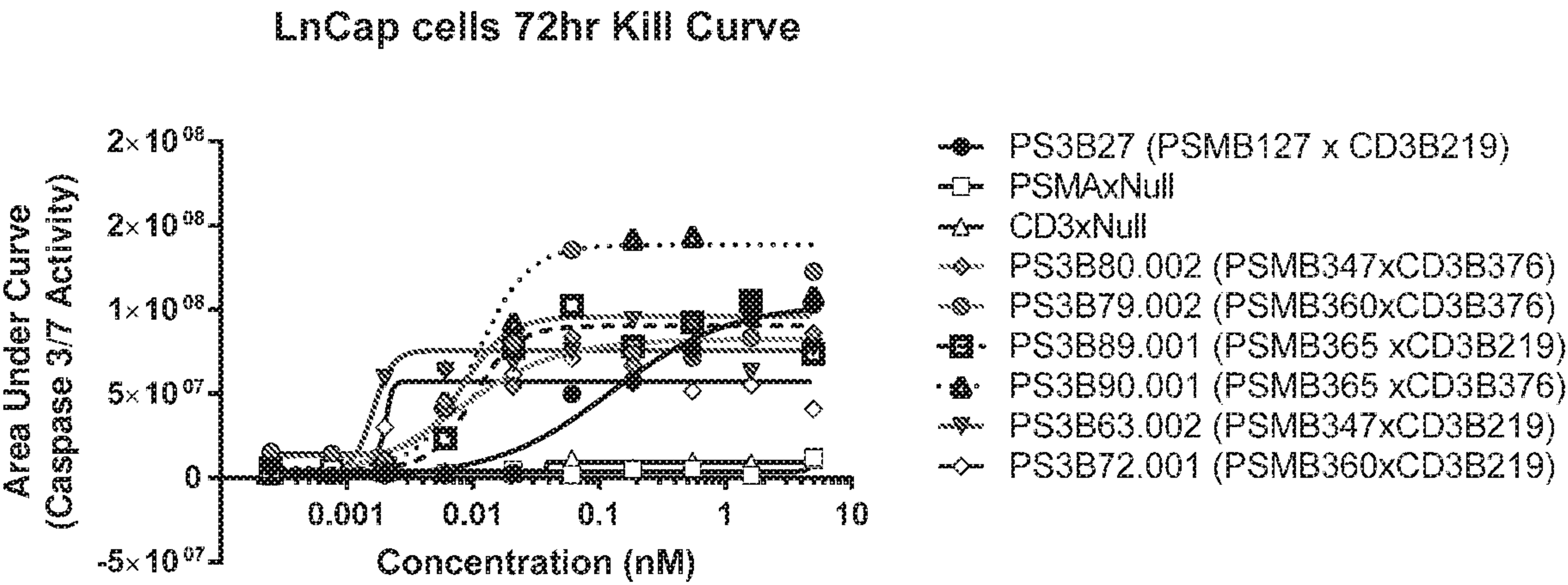


Fig. 19

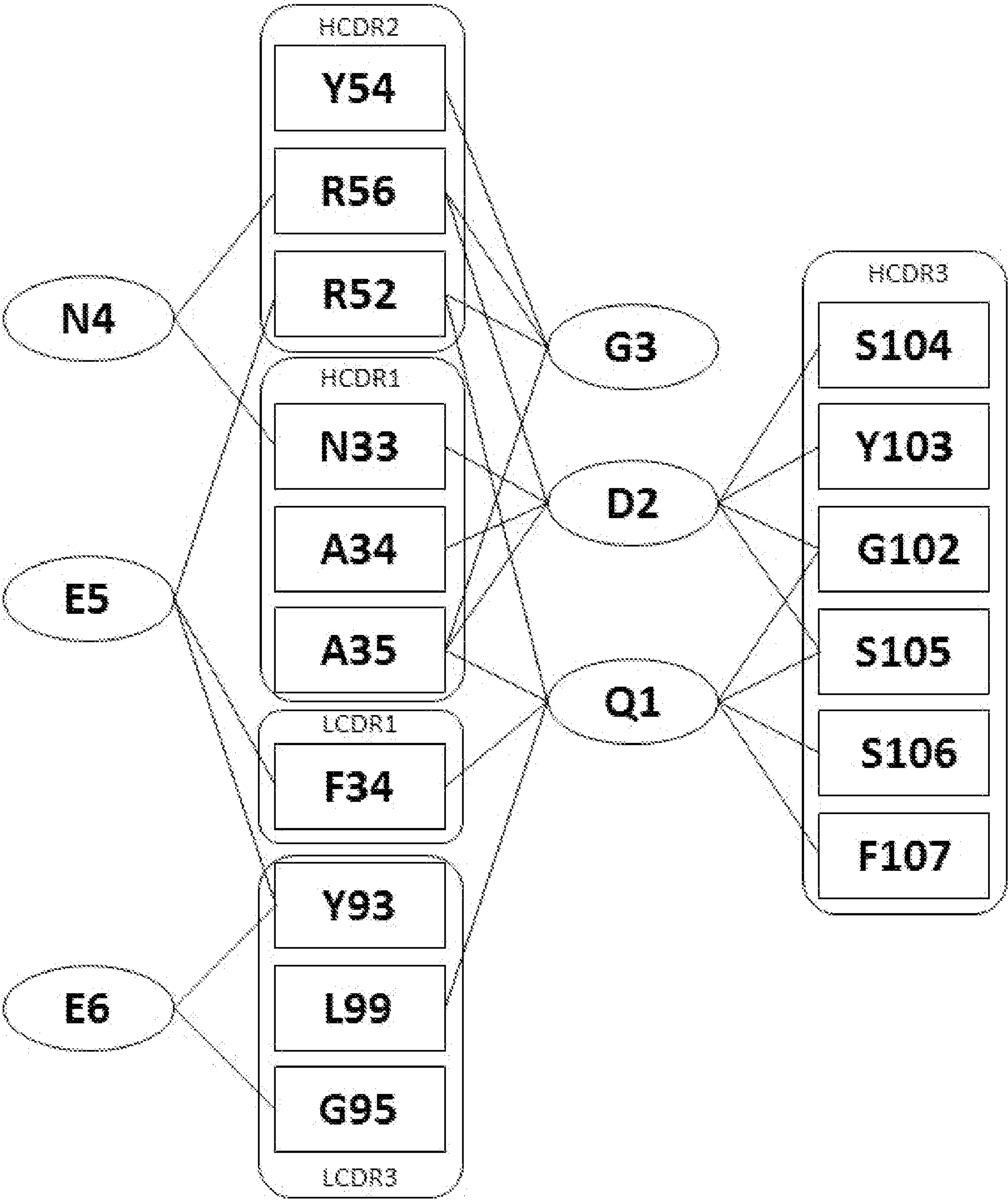


Fig. 20

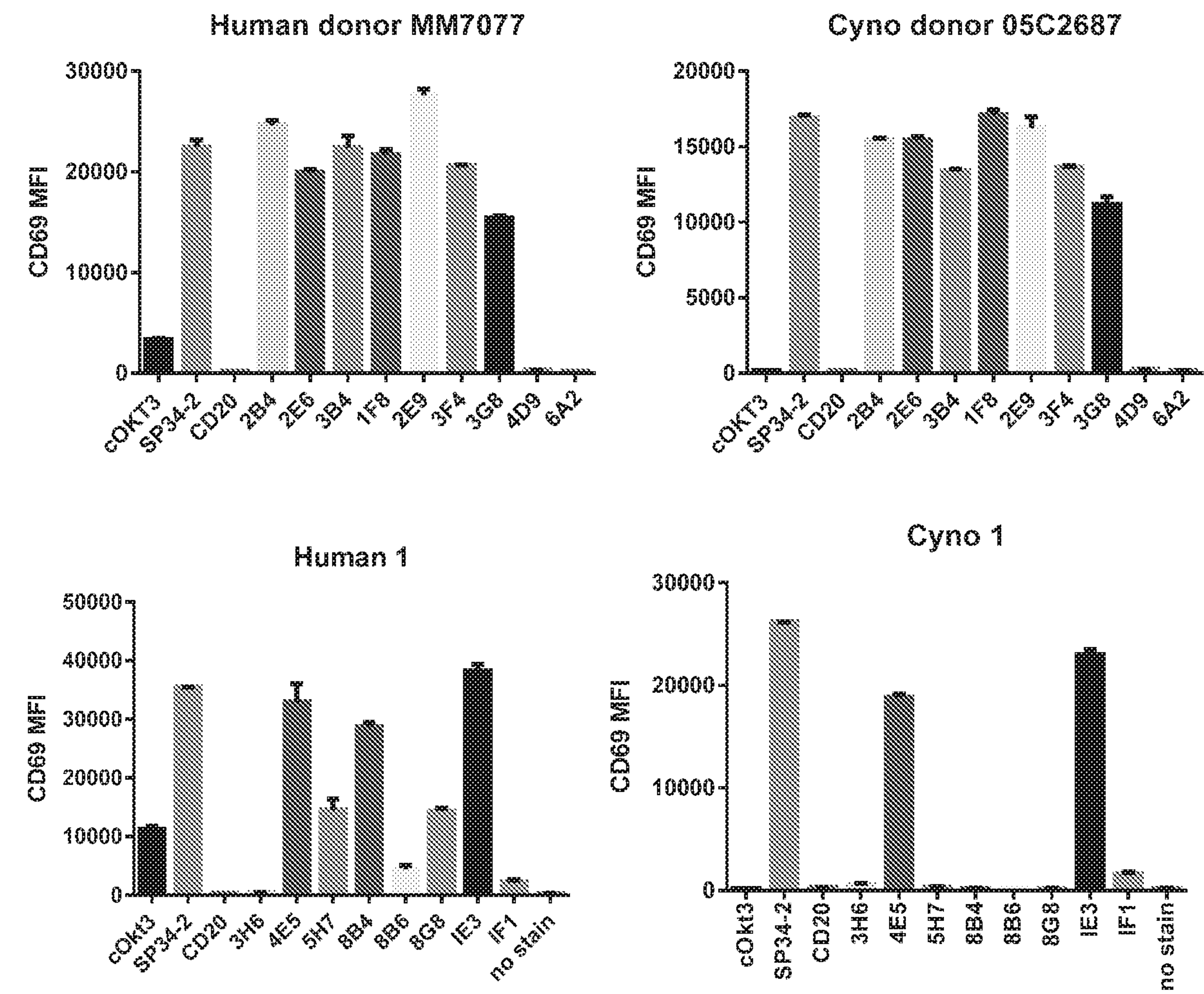


Fig. 21

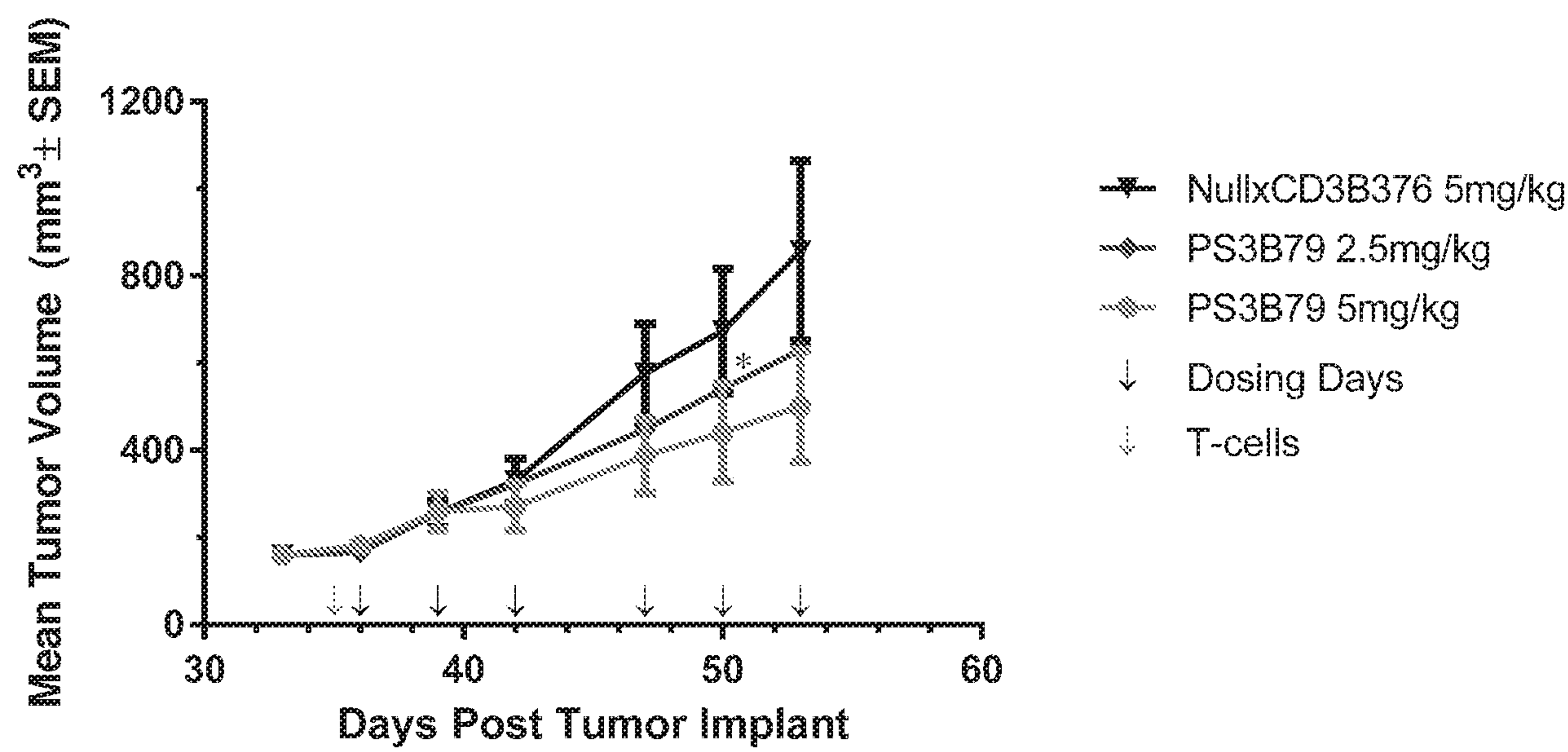


Fig. 22

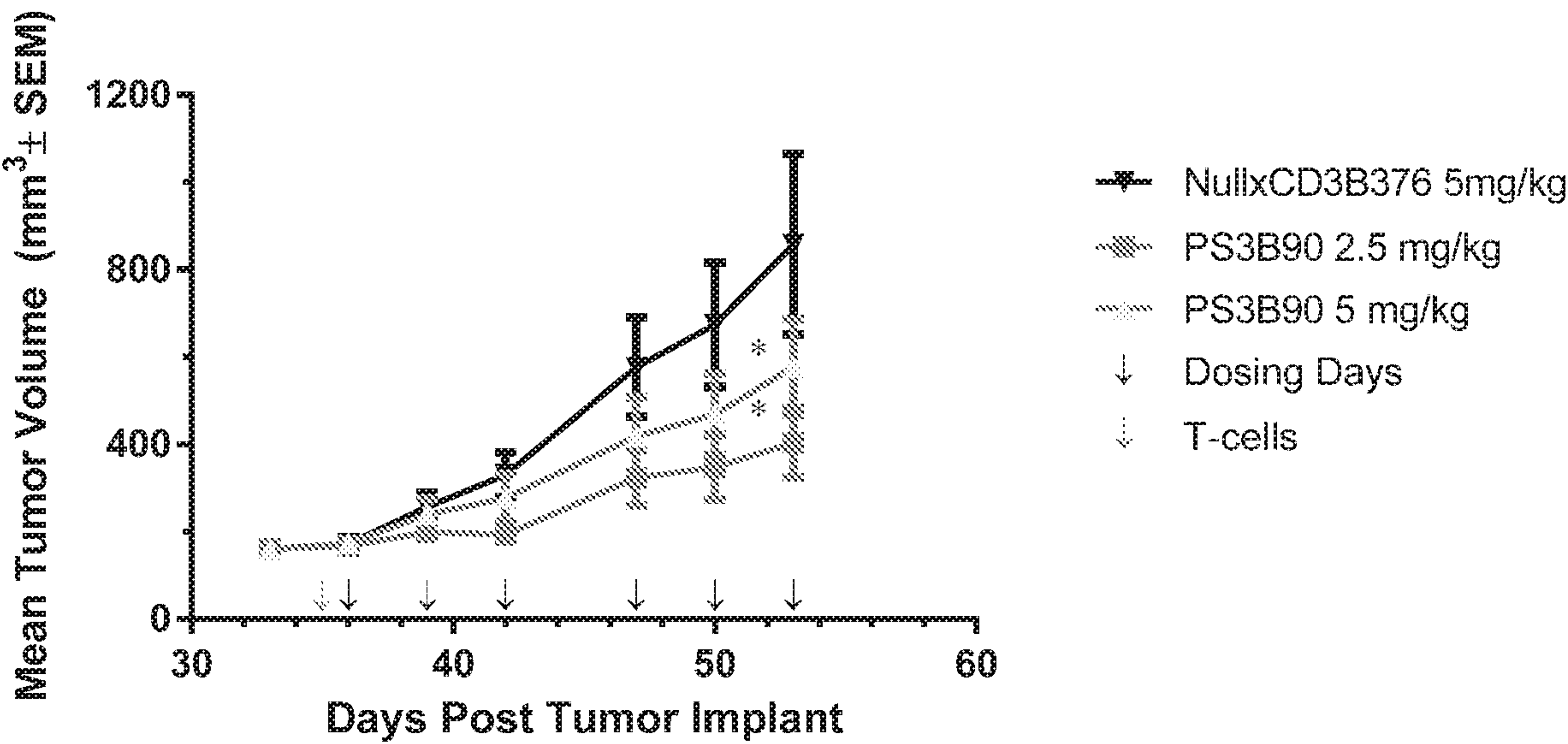


Fig. 23A

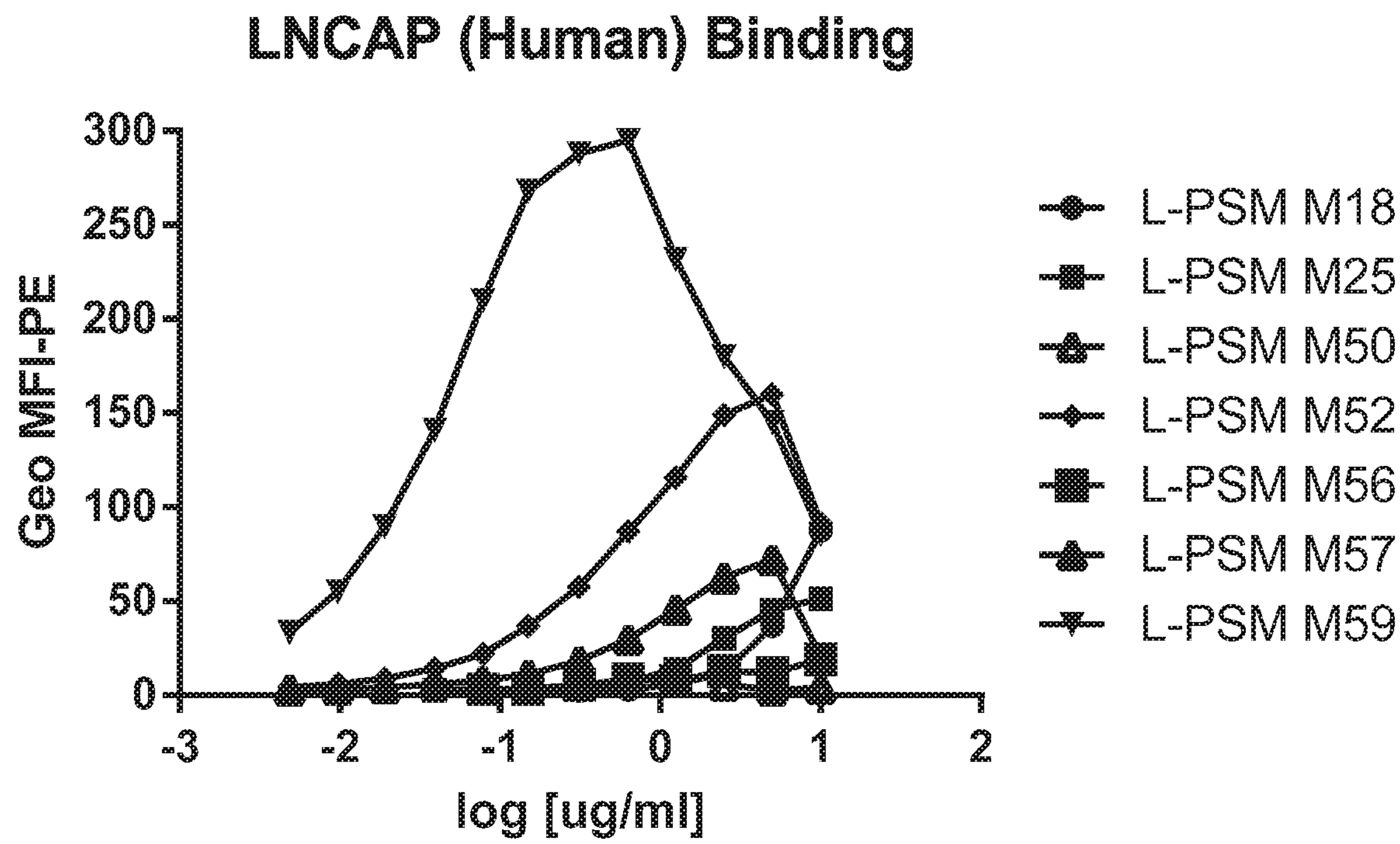


Fig. 23B

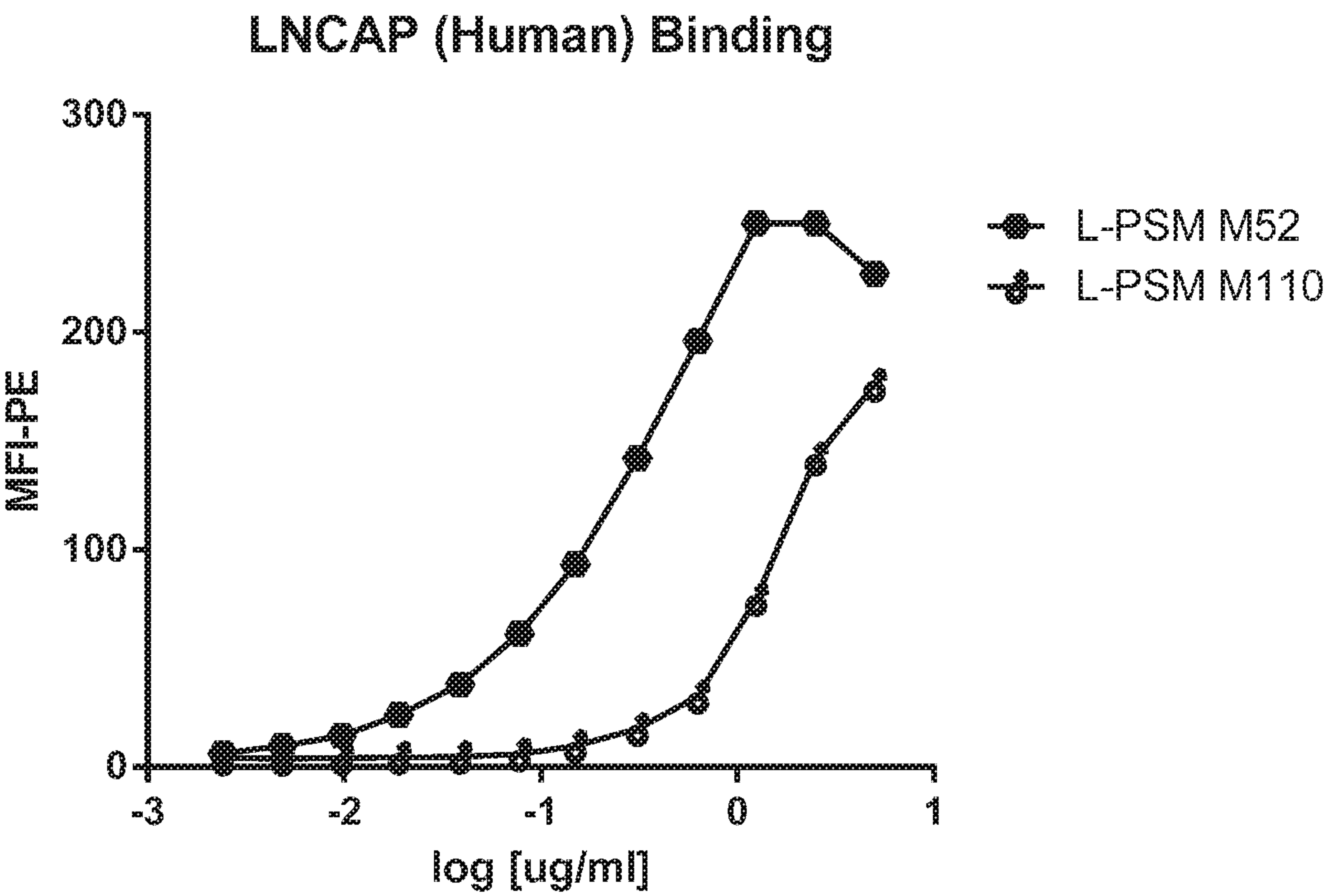


Fig. 23C

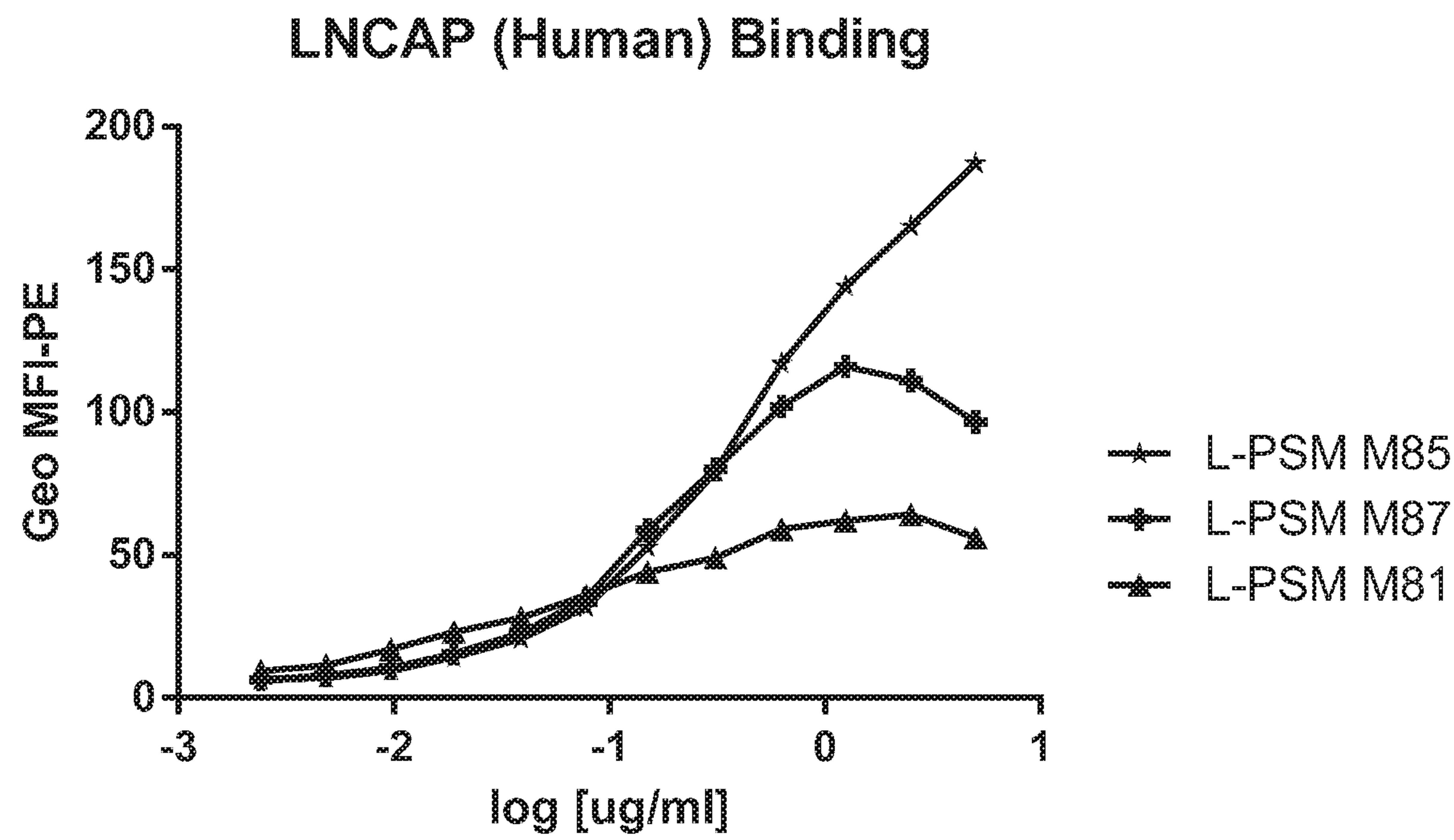


Fig. 23D

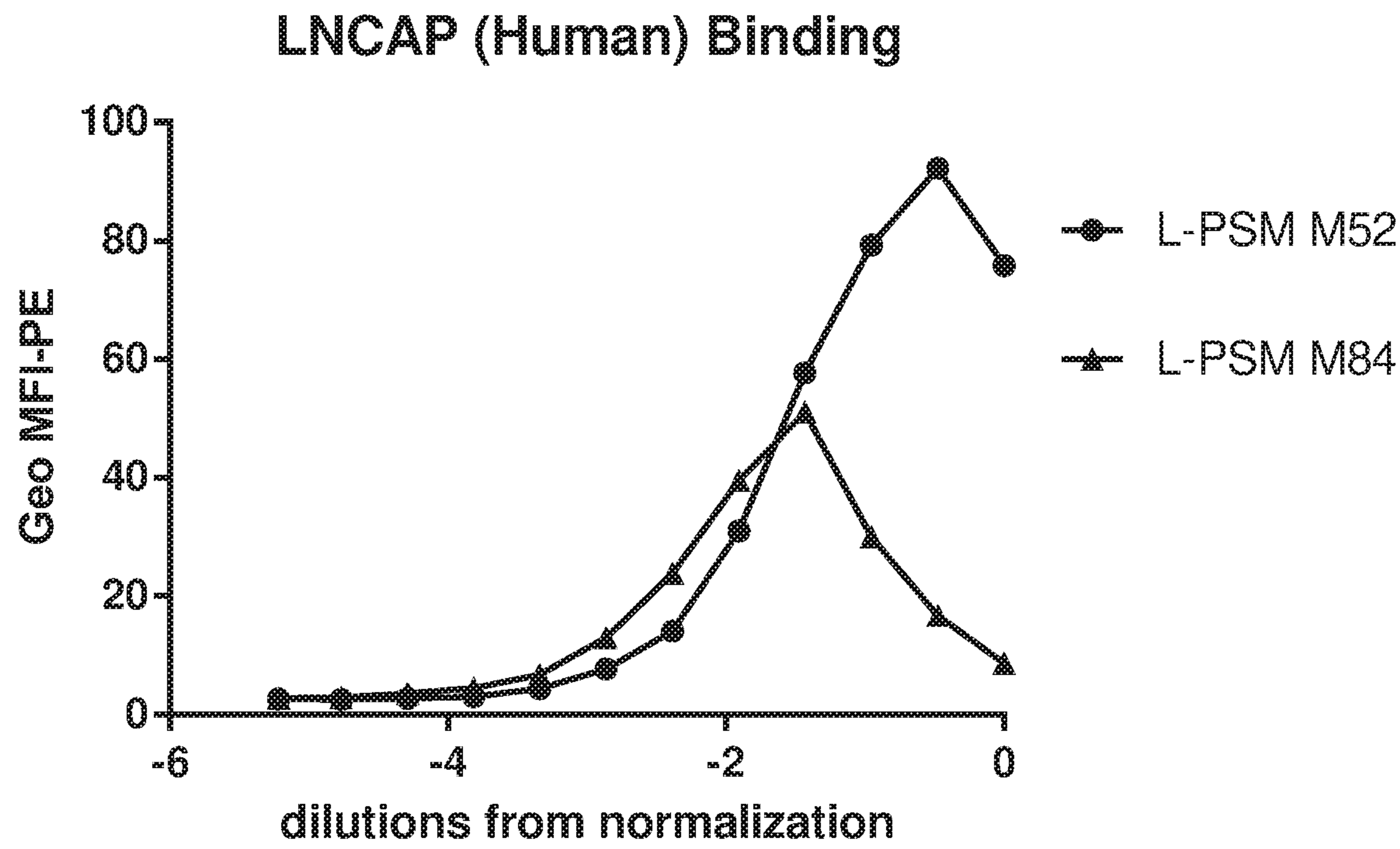


Fig. 24A

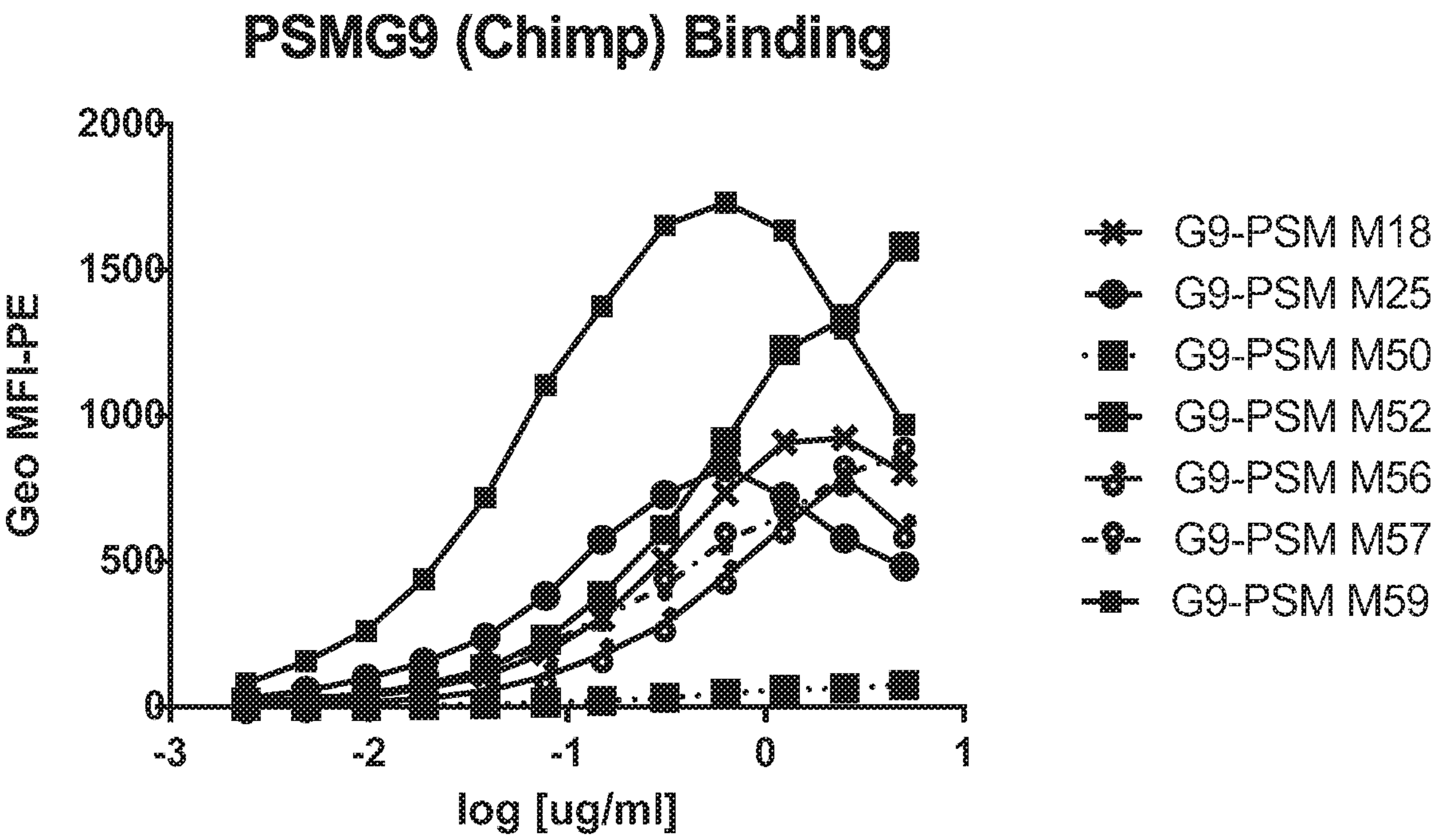


Fig. 24B

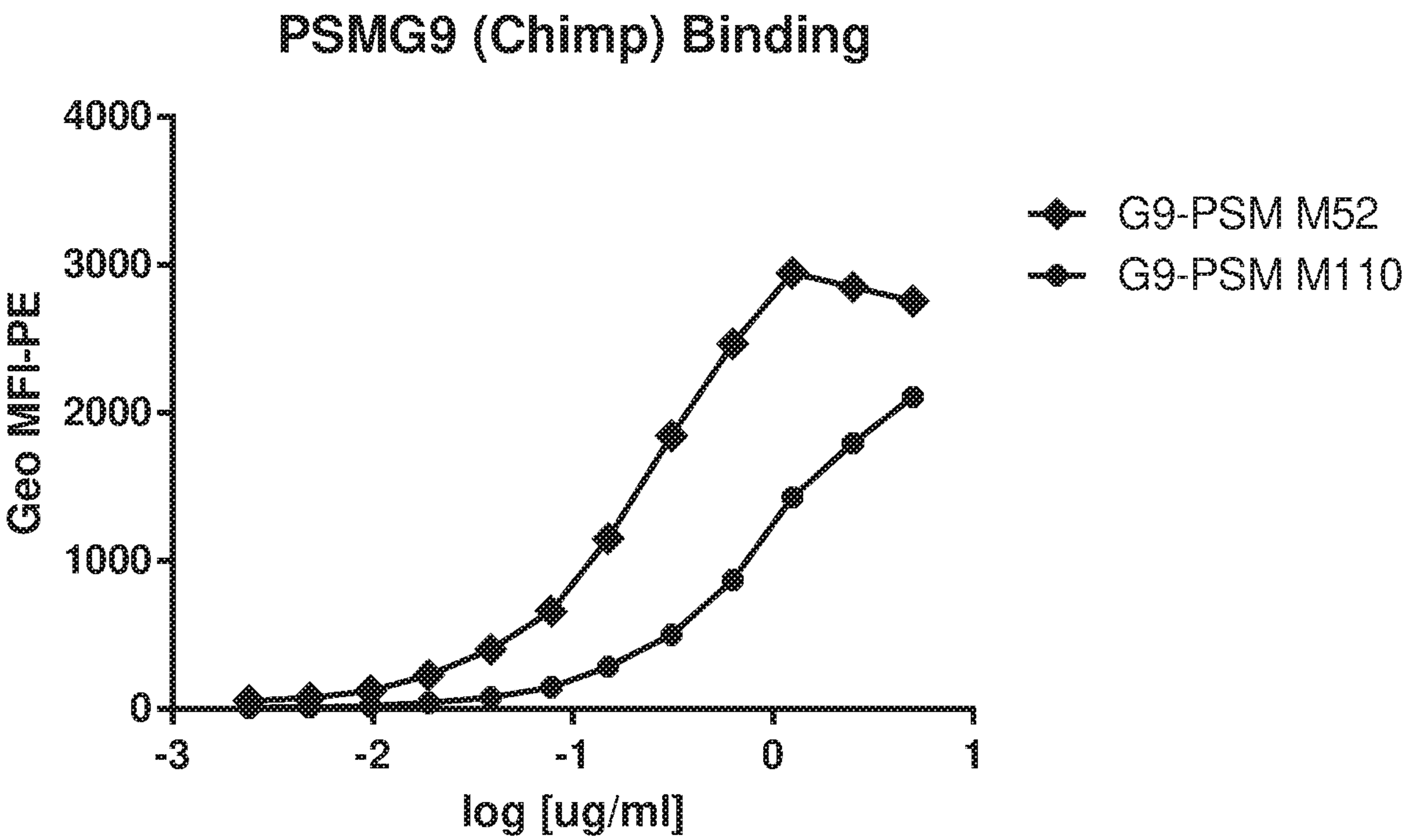


Fig. 24C

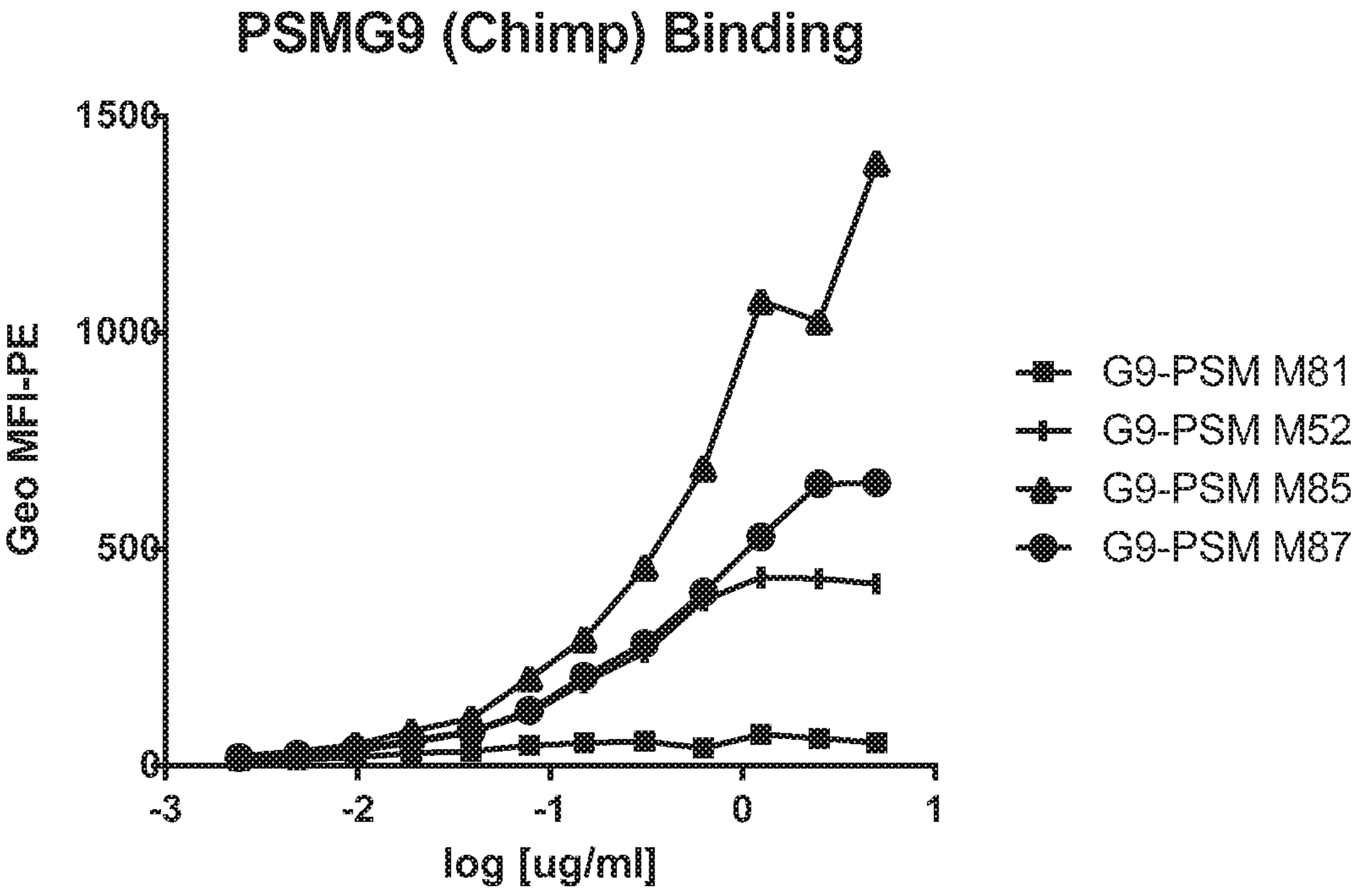


Fig. 24D

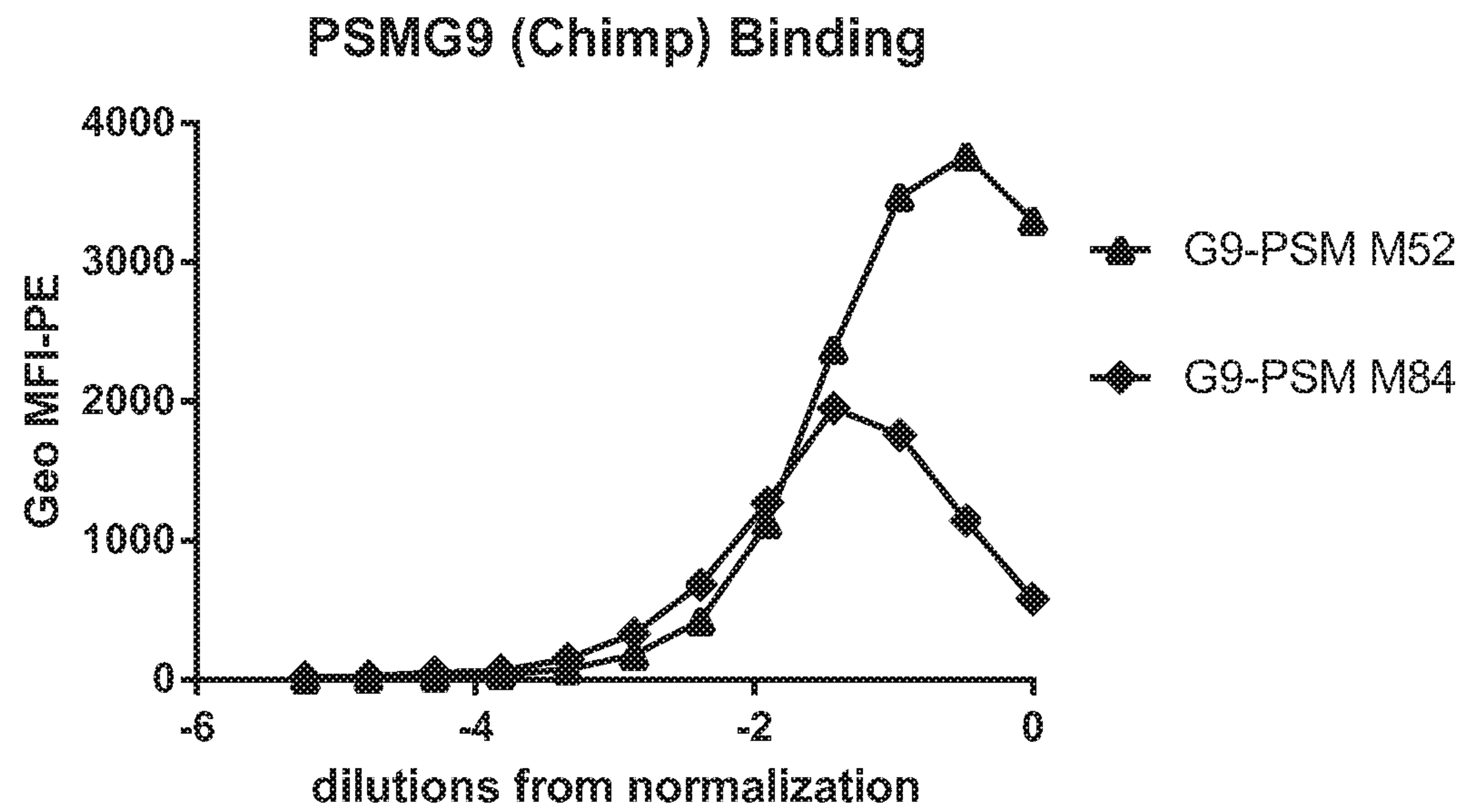


Fig. 25A

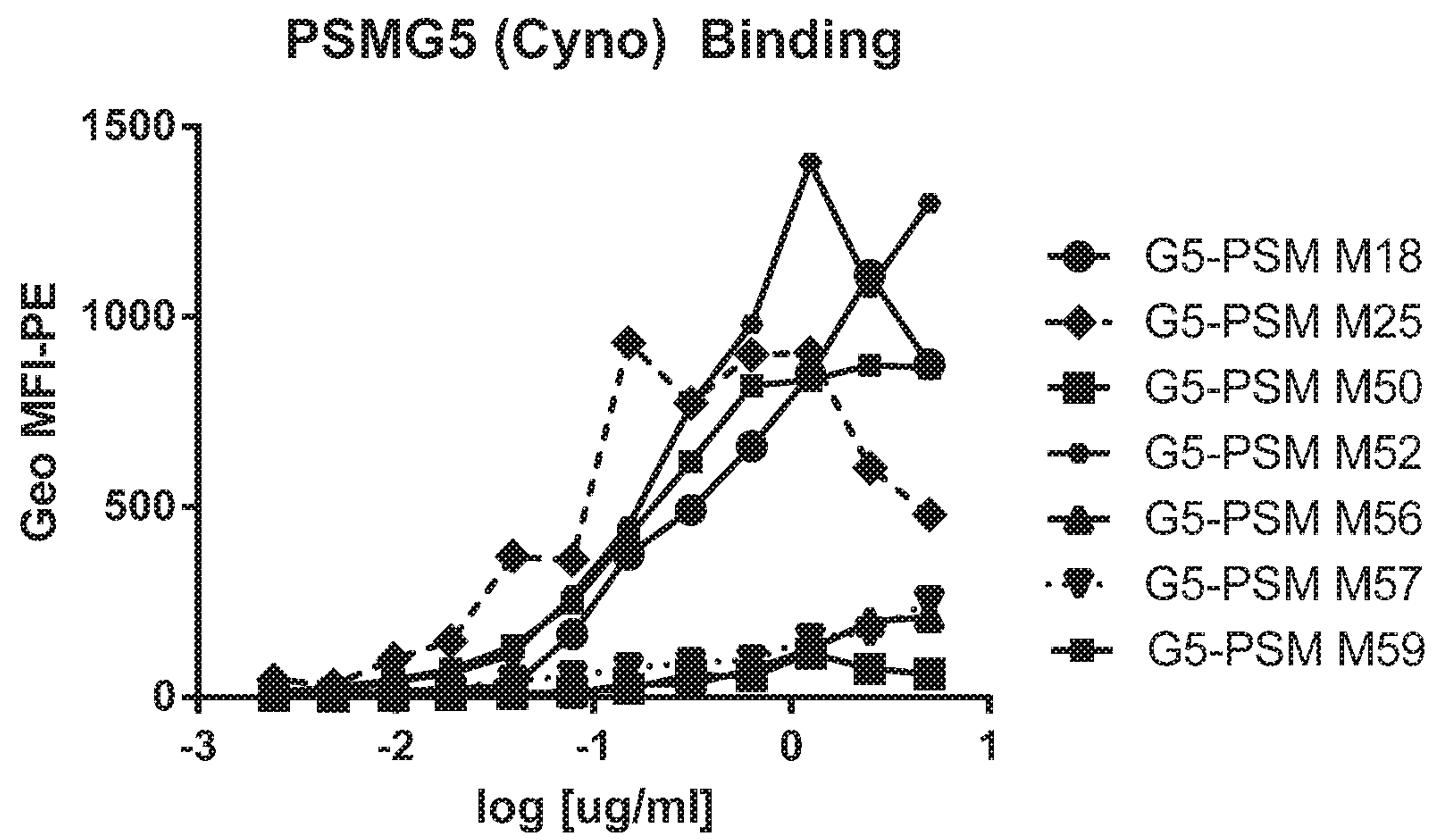


Fig. 25B

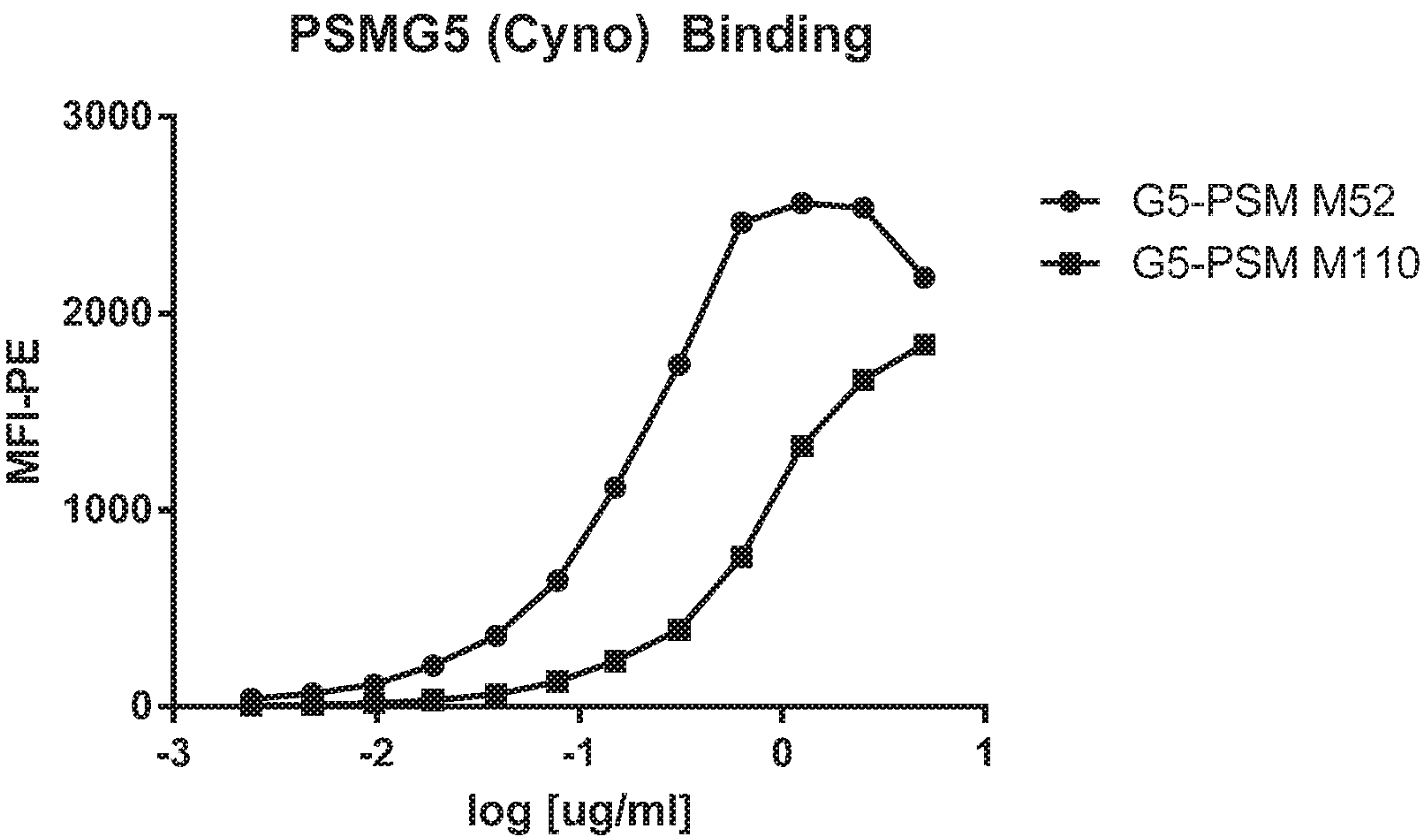


Fig. 25C

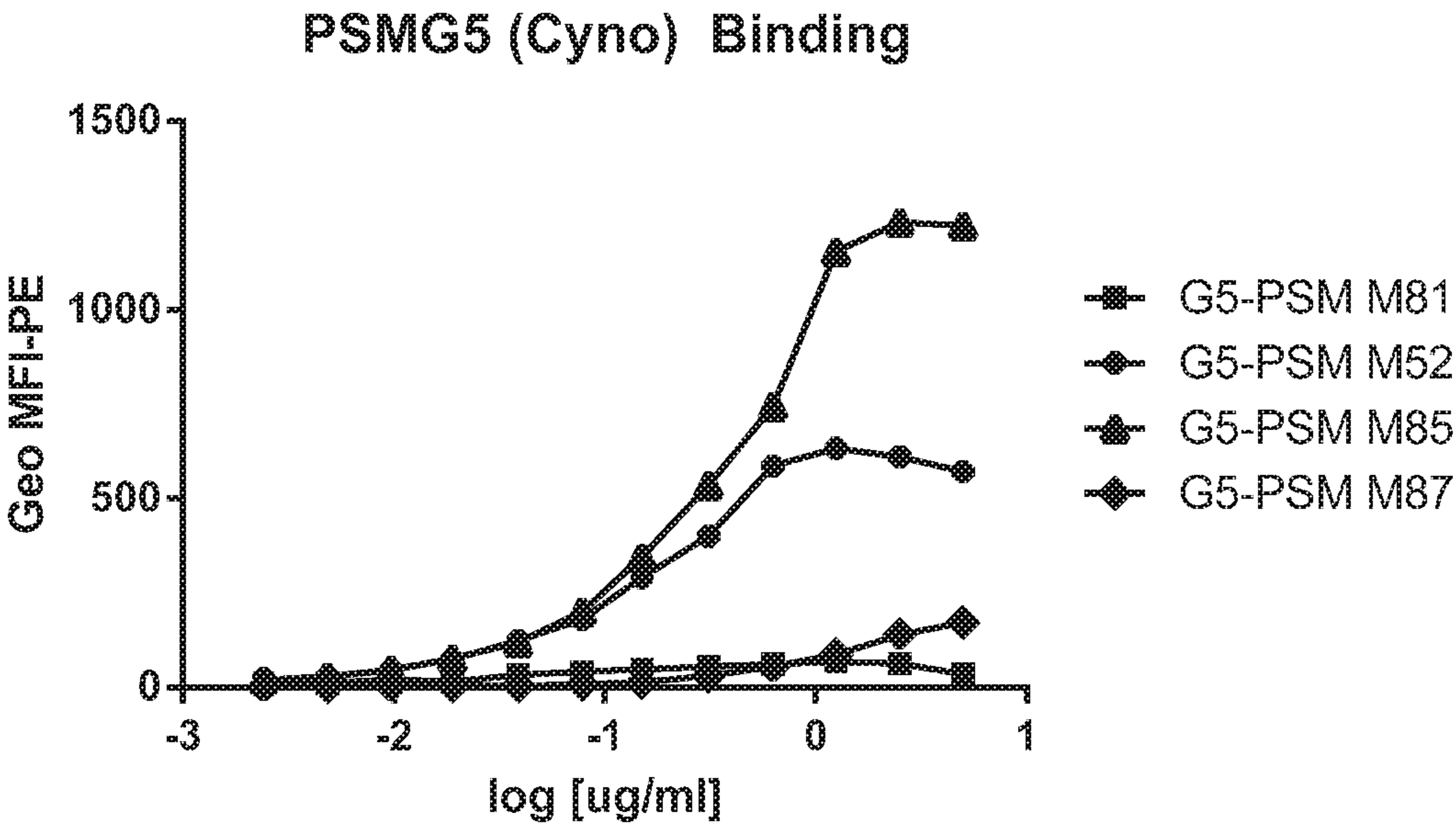


Fig. 25D

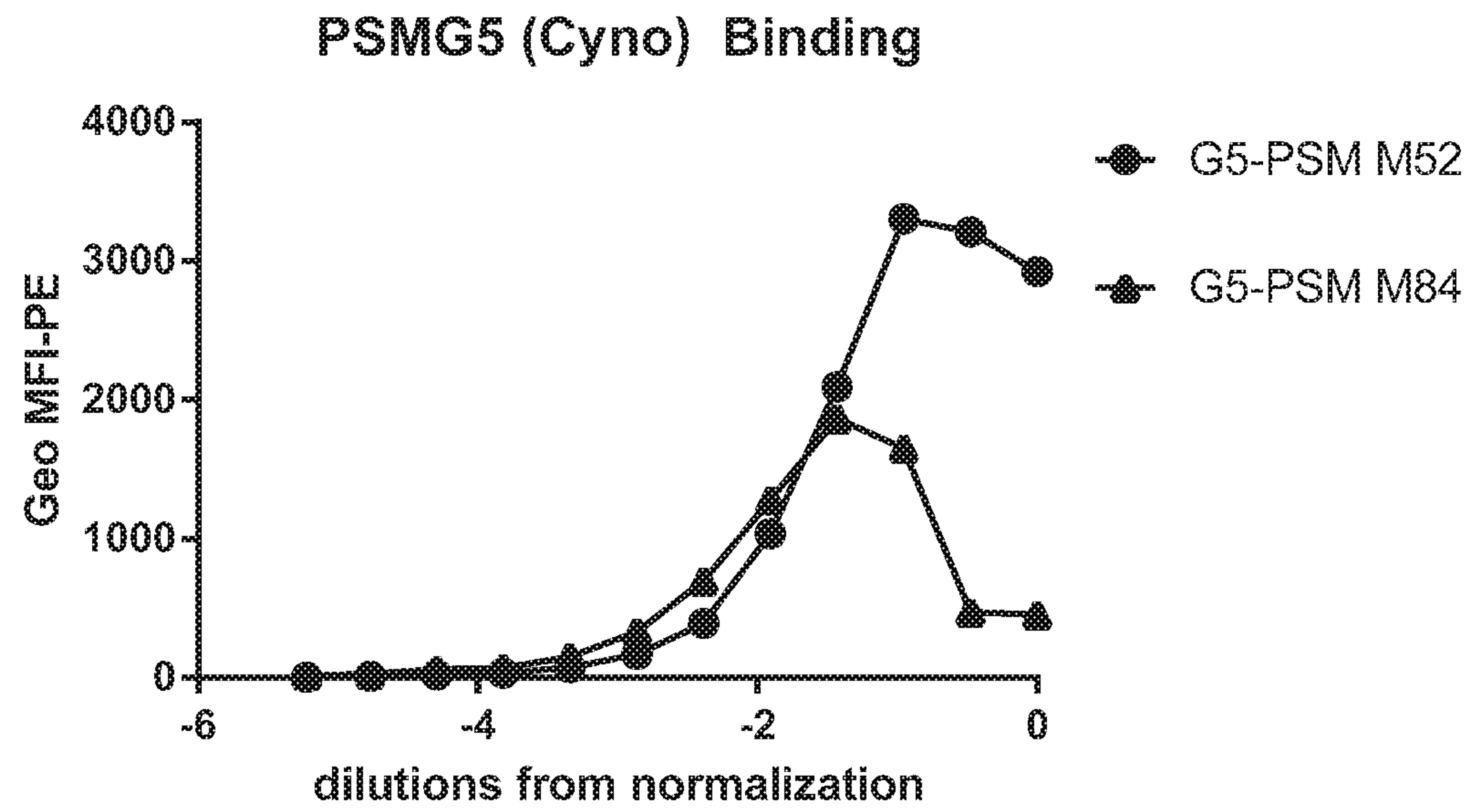


Fig. 26

Overall structure of PSMM84 Fab bound to PSMA

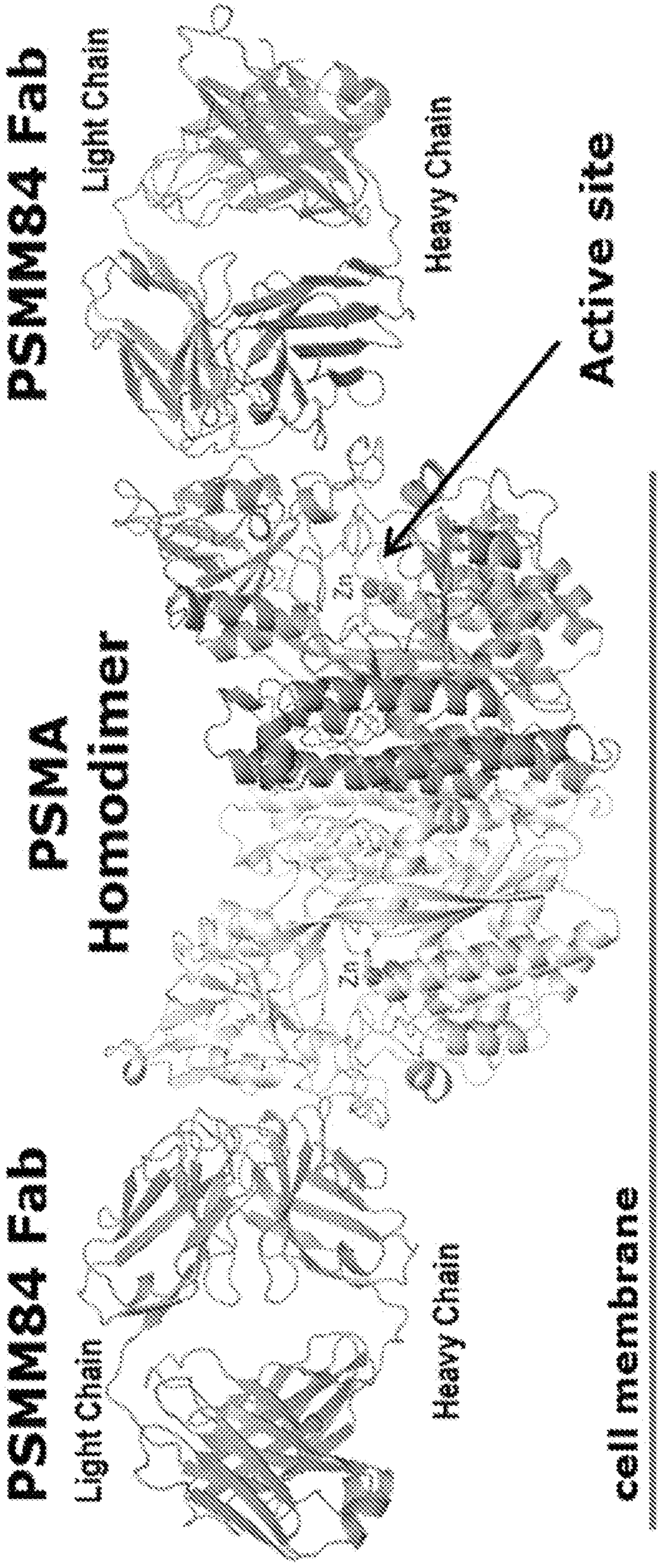


Fig. 27

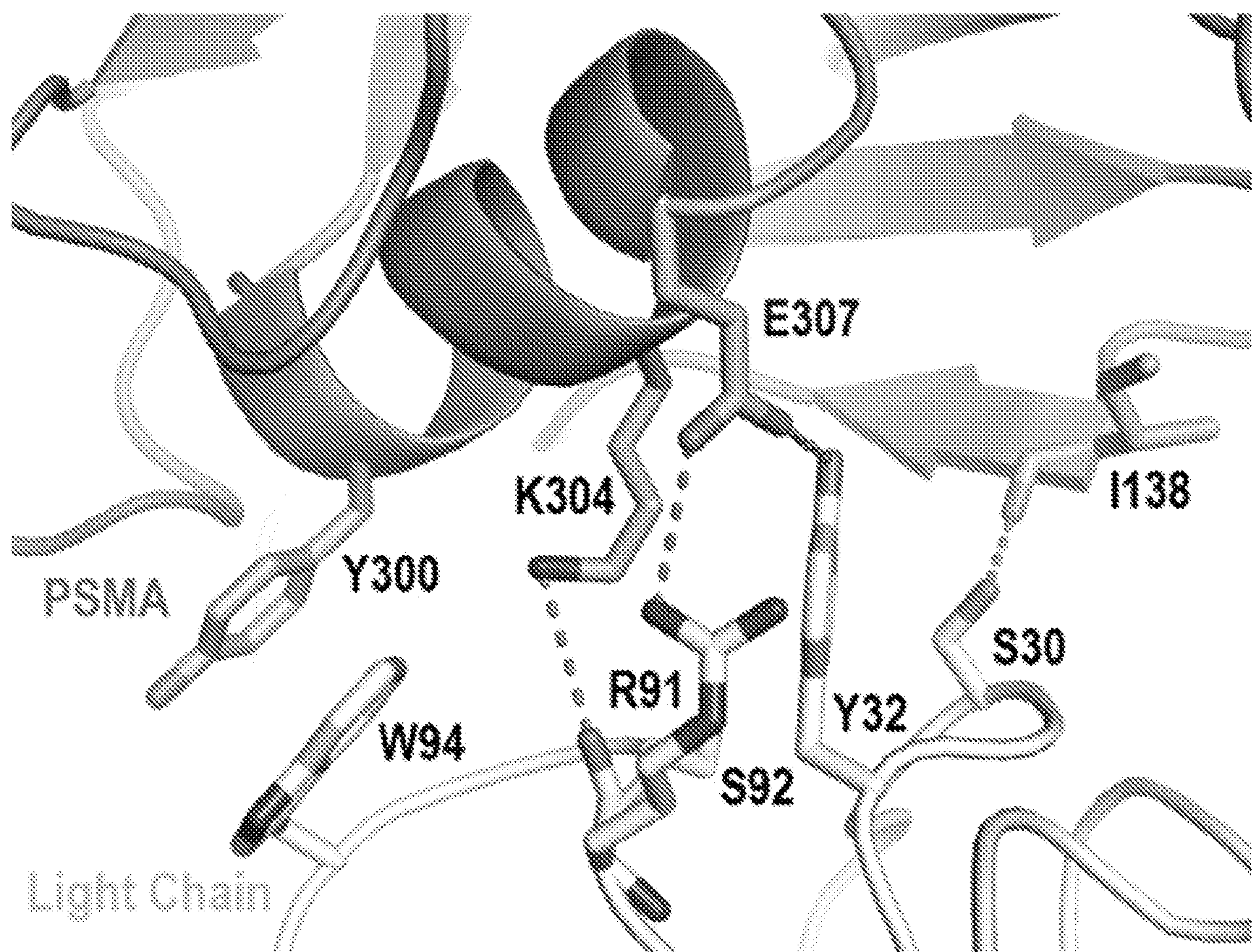


Fig. 28

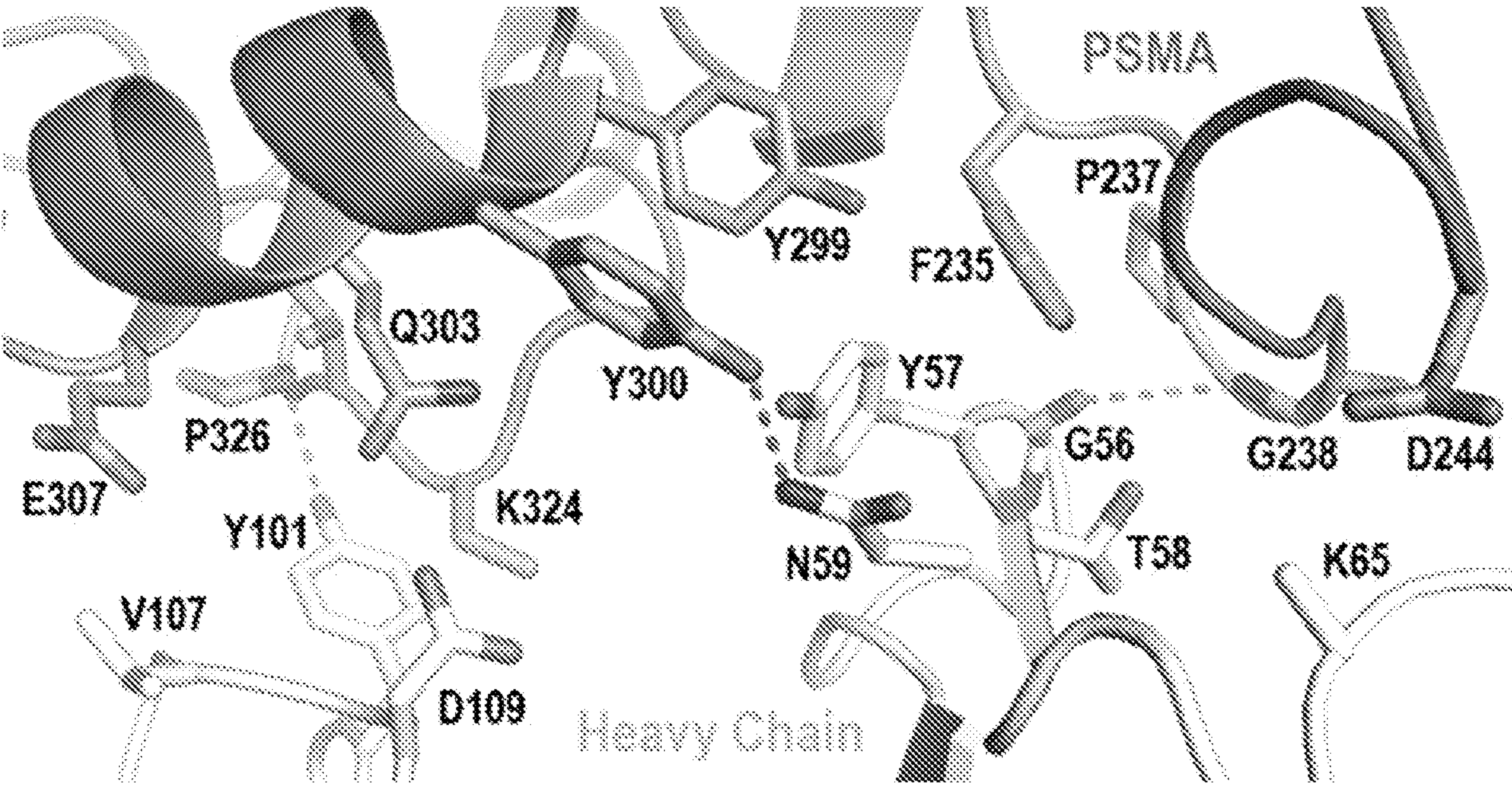


Fig. 29

Epitope residues of PSM84

humanPSMA	(1)	MWNLLEHETDSAVATARRPRWL	CAGALVLAG-GFFLLGLFLFGWF	IKSSNEAT-NITPKHNMKAF	LDELKAENIKKELYNF	TQIPHLAGTEQN	FQL
mousePSMA	(1)	MWNLQDRD	SAEVLGHRQRWL	RVGTILVLA	LTGTFLIGFLFGWF	IKPSNEATGNVSHSGMKKEFL	HELKAENIKKELYNF
cynopPSMA	(1)	MWNLLEHETDSAVATARRPRWL	CAGALVLAG-GFFLLGLFLFGWF	IKSSSEAT-NITPKHNMKAF	LDELKAENIKKELHNF	TQIPHLAGTEQN	FQL
humanPSMA	(93)	AKQIQSQWKKEFG	LDSVELAHYDVLLSY	PNKTHPNYISII	INEDGNE	EFNTSLFEPPPPGYEN	VSDIVPPPSAFSPQGMPEGDLVYVNYARTEDFF
mousePSMA	(95)	AKQIHDQWKKEFG	LDLVELSHYDVLLSY	PNKTHPNYISII	INEDGNE	EFNTSLFEPPPPGYEN	ISDVPPPSAFSPQGTPEGDLVYVNYARTEDFF
cynopPSMA	(93)	AKQIQSQWKKEFG	LDSVELTHYDVLLSY	PNKTHPNYISII	INEDGNE	EFNTSLFEPPPPAGYEN	VSDIVPPPSAFSPQGMPEGDLVYVNYARTEDFF
humanPSMA	(187)	KLERDMKINC	SGKIVIARYGKV	FRGNKVKN	QAQLAGAKGVILY	SDPADYFAPGVKSY	PDGWNLPGGGVQVRGNILNLNGAGDPLTPGYPAN
mousePSMA	(189)	KLEREMKISC	SGKIVIARYGKV	FRGNMVKNA	QLAGAKGMILY	SDPADYFAPGVKSY	PDGWNLPGGGVQVRGNVLNLNGAGDPLTPGYPAN
cynopPSMA	(187)	KLERDMKINC	SGKIVIARYGKV	FRGNKVKN	QAQLAGAIGVILY	SDPDDYFAPGVKSY	PDGWNLPGGGVQVRGNILNLNGAGDPLTPGYPAN
humanPSMA	(281)	RGIAEAVGLP	SIPVHP	IGYXDAQKLL	KKMGGSAPPDSS	WRGSLKVP	YNVGP
mousePSMA	(283)	HELTNAVGLP	SIPVHP	IGYXDAQKLL	KKMGGPAPPDSS	WKGGKLV	YNVGP
cynopPSMA	(281)	RGMAEAVGLP	SIPVHP	IGYXDAQKLL	KKMGGSAPPDSS	WRGSLKVP	YNVGP
humanPSMA	(375)	GCHRD	SWVFGGIDPQ	SGAAV	VHEIVRSFG	TLKKEGWRPRRTIL	FASWDAEEFGLLGSTEWAEENSRL
mousePSMA	(377)	GCHRD	AWVFGGIDPQ	SGAAV	VHEIVRSFG	TLKKGRRPRRTIL	FASWDAEEFGLLGSTEWAEENSRL
cynopPSMA	(375)	GCHRD	SWVFGGIDPQ	SGAAV	VHEIVRSFG	MLKKEGWRPRRTIL	FASWDAEEFGLLGSTEWAEENSRL
humanPSMA	(469)	LMYSLV	HNLTKE	LKSPDEG	FECKSLYES	WTKKSPSP	EFSGMPRISK
mousePSMA	(471)	LMYSLV	YNLTKE	LQSPDEG	FECKSLYD	SWKEKSP	SPEFIGMPRISK
cynopPSMA	(469)	LMYSLV	YNLTKE	LESPDEG	FECKSLYES	WTKKSPSP	EFSGMPRISK
humanPSMA	(563)	EKFYD	PMFKYHL	ITVAQVR	GGMVFE	LANSIVLP	FFDCRDYAVVLRKYADKI
mousePSMA	(565)	VKFYD	PTFKYHL	ITVAQVR	GAMVFE	LANSIVLP	FFDCQSYAVVALKKYADTI
cynopPSMA	(563)	EKFYD	PMFKYHL	ITVAQVR	GGMVFE	LANSVVL	PPDCRDYAVVLRKYADKI
humanPSMA	(657)	NP	IVLRM	MNDQ	LMFL	ERAFID	PLGLPDRPFYRHHVIYAPSSH
mousePSMA	(659)	NP	ILLR	IMNDQ	LMYLER	AFID	PLGLPGRPFYRHHIYAPSSH
cynopPSMA	(657)	NP	ILLR	MNDQ	LMFL	ERAFID	PLGLPDRPFYRHHVIYAPSSH

Epitope residues are shaded. Sequence divergence shown by underline.

Fig. 30

Paratope residues of PSMM84

Paratope of PSMM84

PSMM84__HC (1) EVQLLESGGGLVQPGGSLRLSCAASGFTFKSDAMHWVRQAPGKGLEWVSEISGSGGGYINYADSVKGRFTISRDNISK
PSMM84__HC (77) NTLYLQMNSLRAEDTAVYYCARDSDSSLYVGDYFDYWGGQTLVTVSSASTKGPSVFELAPSSKSTSGGTAALGCL
PSMM84__HC (153) VKDYFFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSSLGTQTYICNVNHHKPSNTKVDKKVEPKSC

PSMM84__LC (1) EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRAATGIPARESGSGSGTDEFT
PSMM84__LC (73) LTISSLEPEDFAVYYCQQQRNNPLTFEGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREA
PSMM84__LC (145) KVQWKVDNALQSGNSQESVTEQDSKDSSTLSKADYEKKHKVYACEVTHQGLSSPVTKSFNRGEC

CDR regions underlined. Paratope residues shaded.

Fig. 31

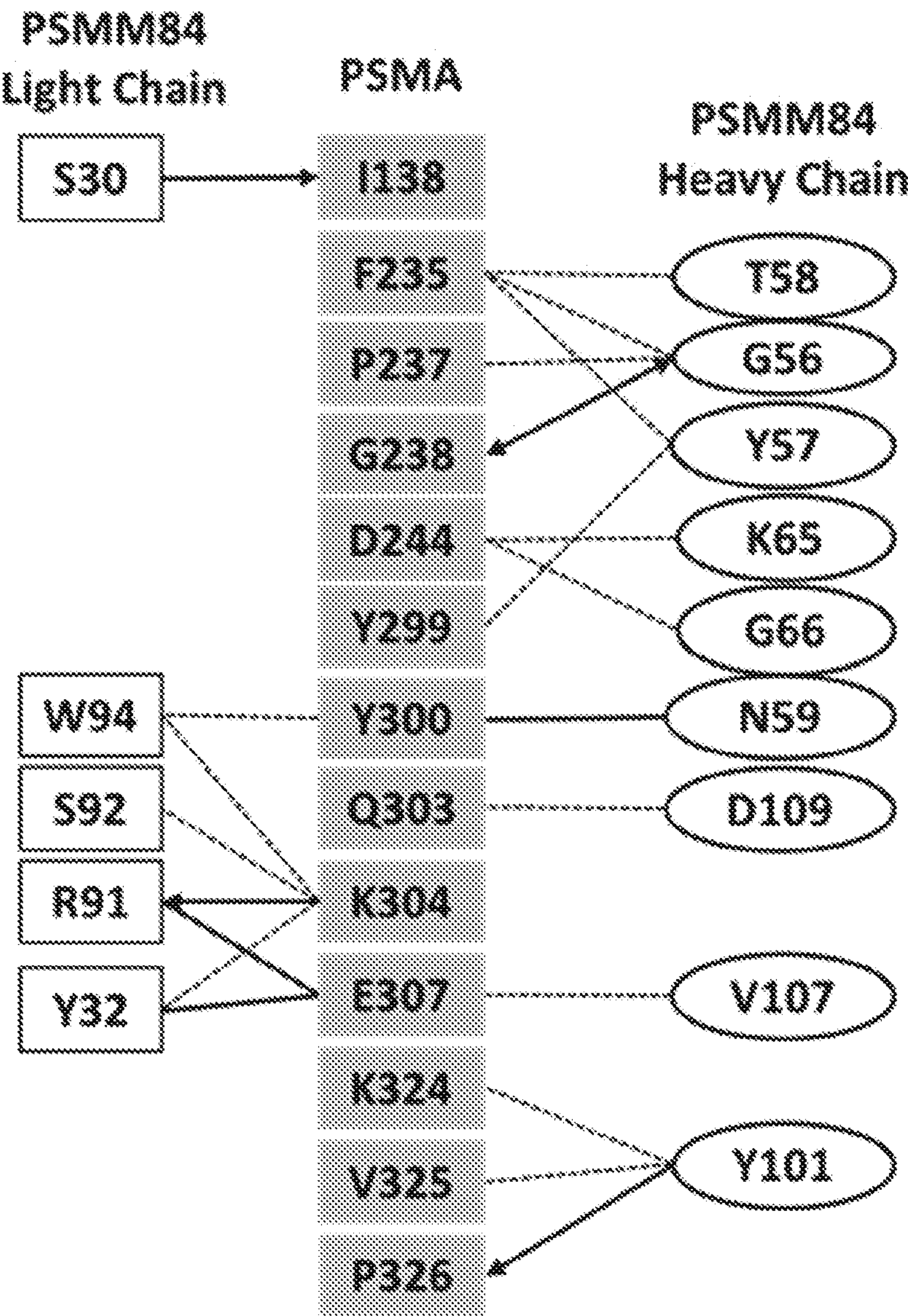


Fig. 32

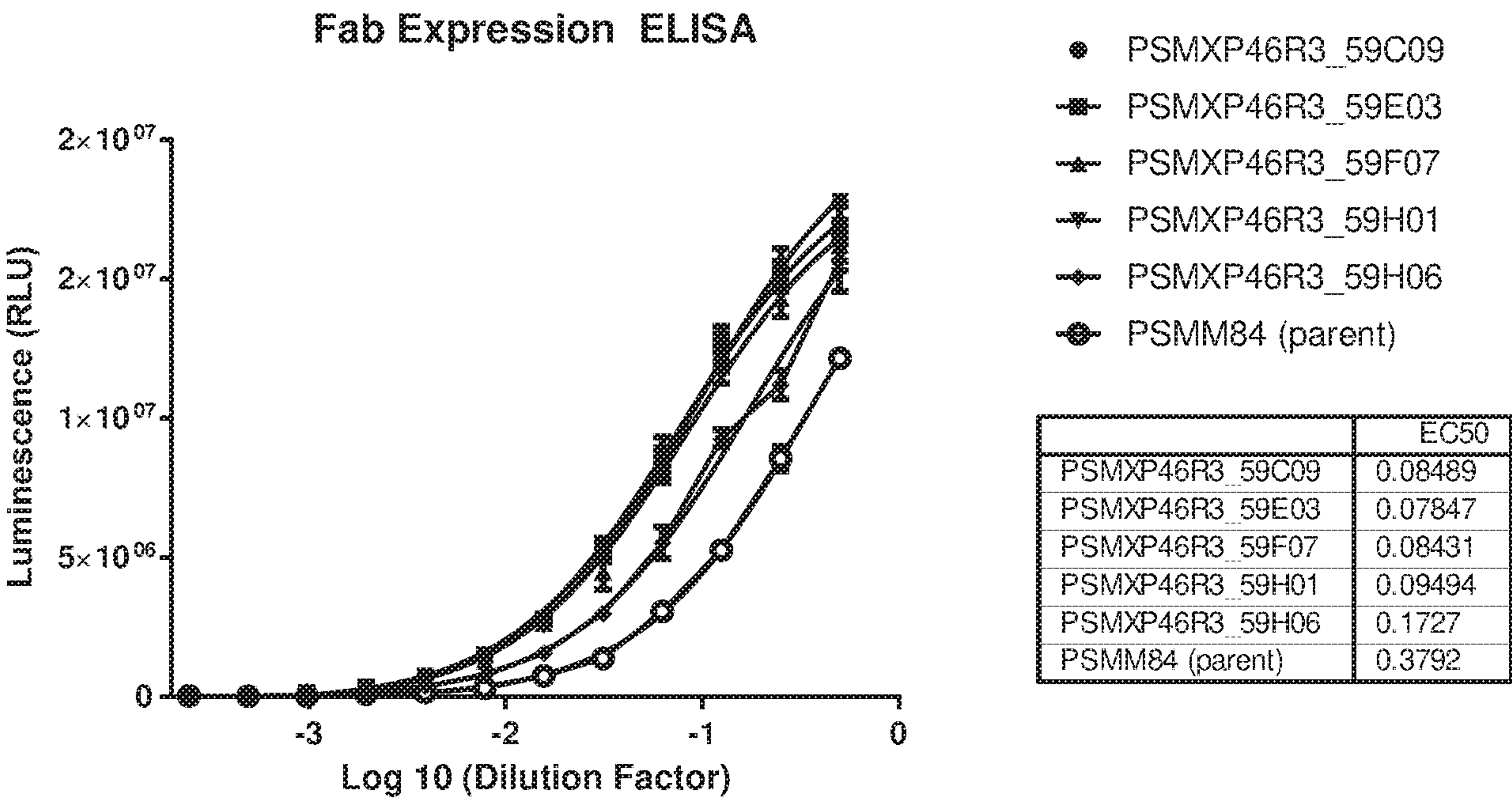


Fig. 33

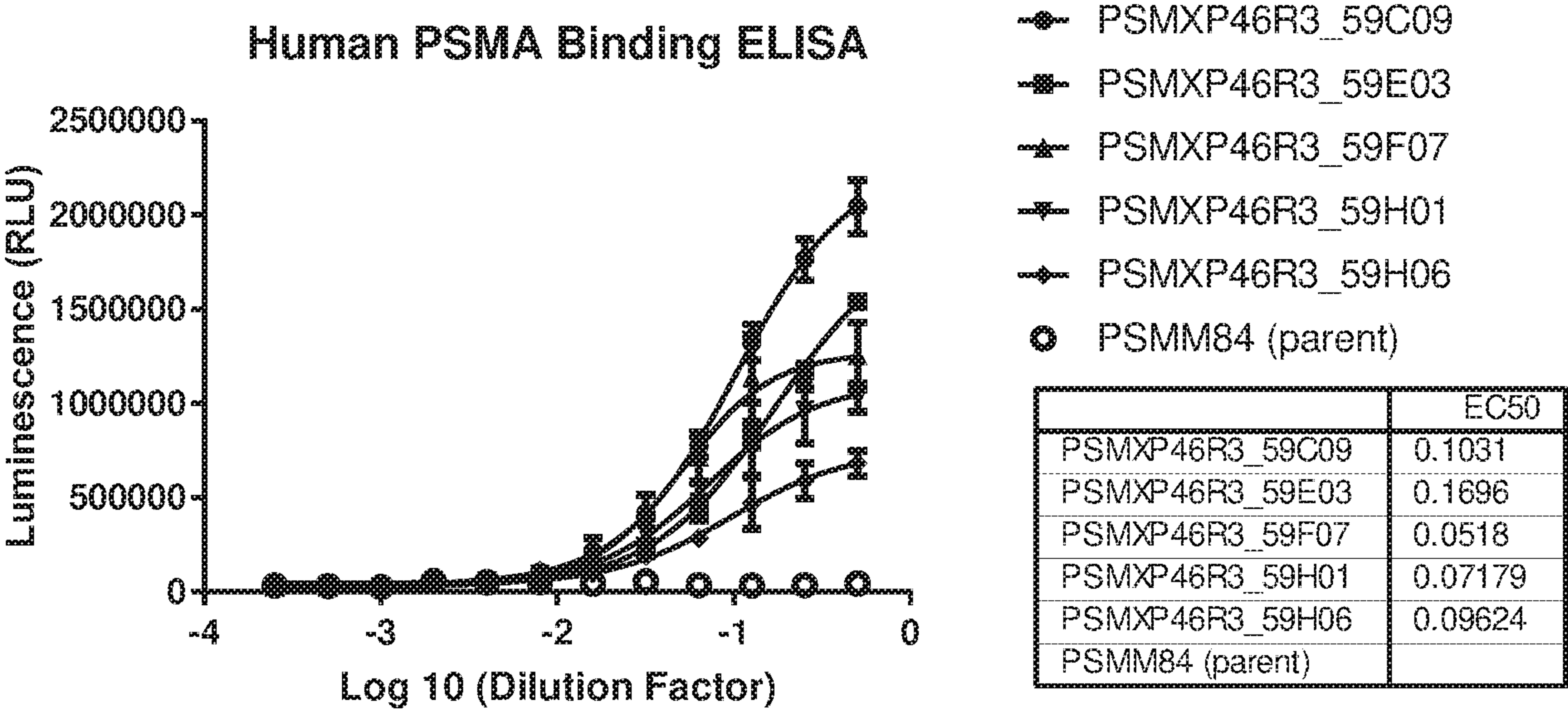


Fig. 34

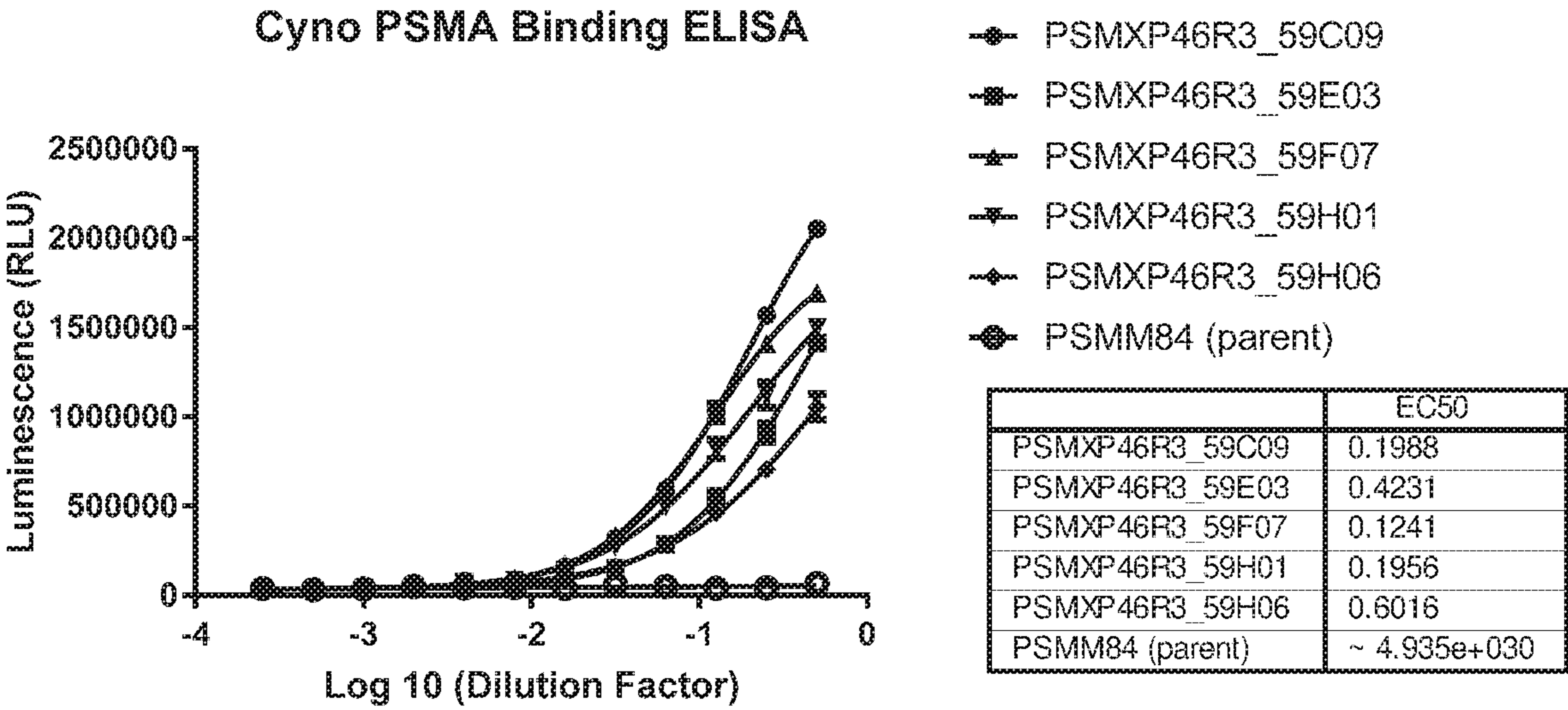
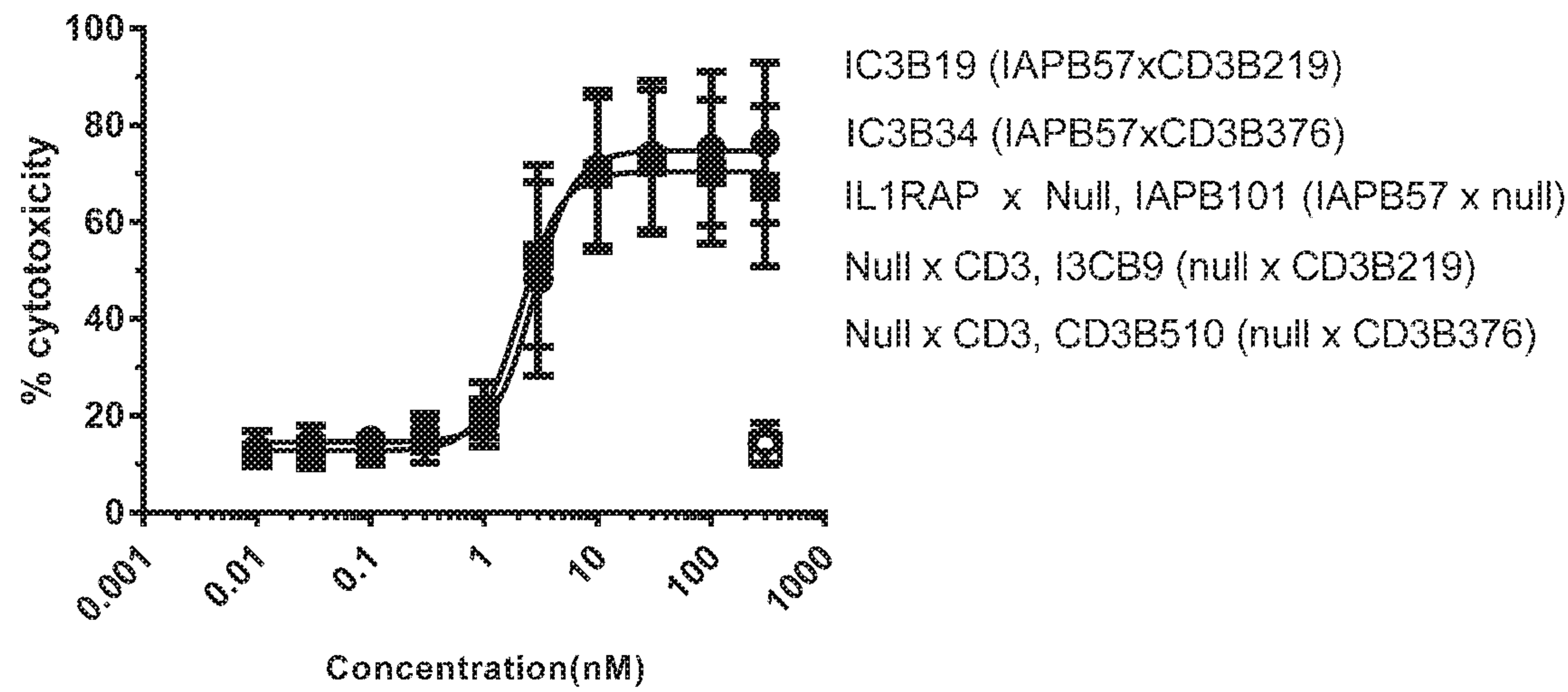
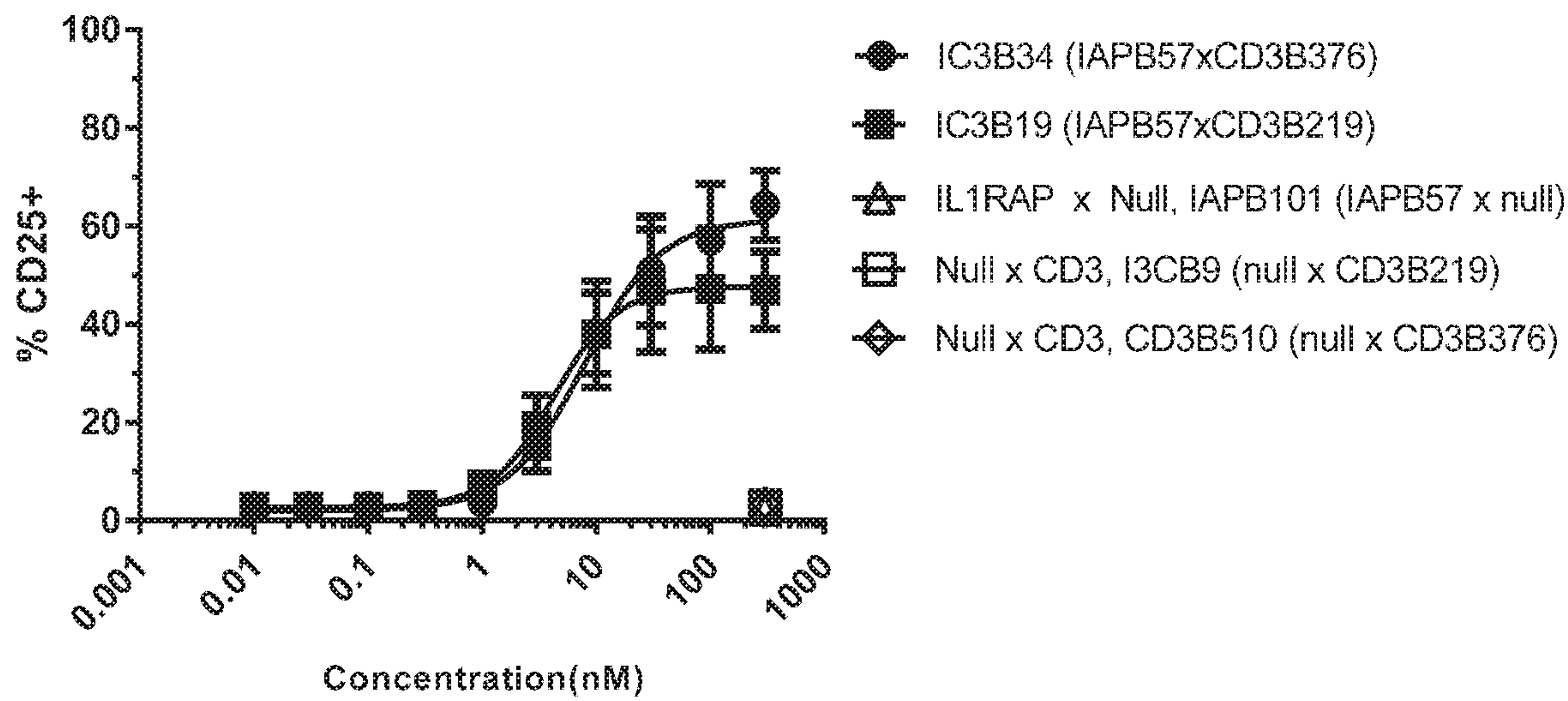


Fig. 35



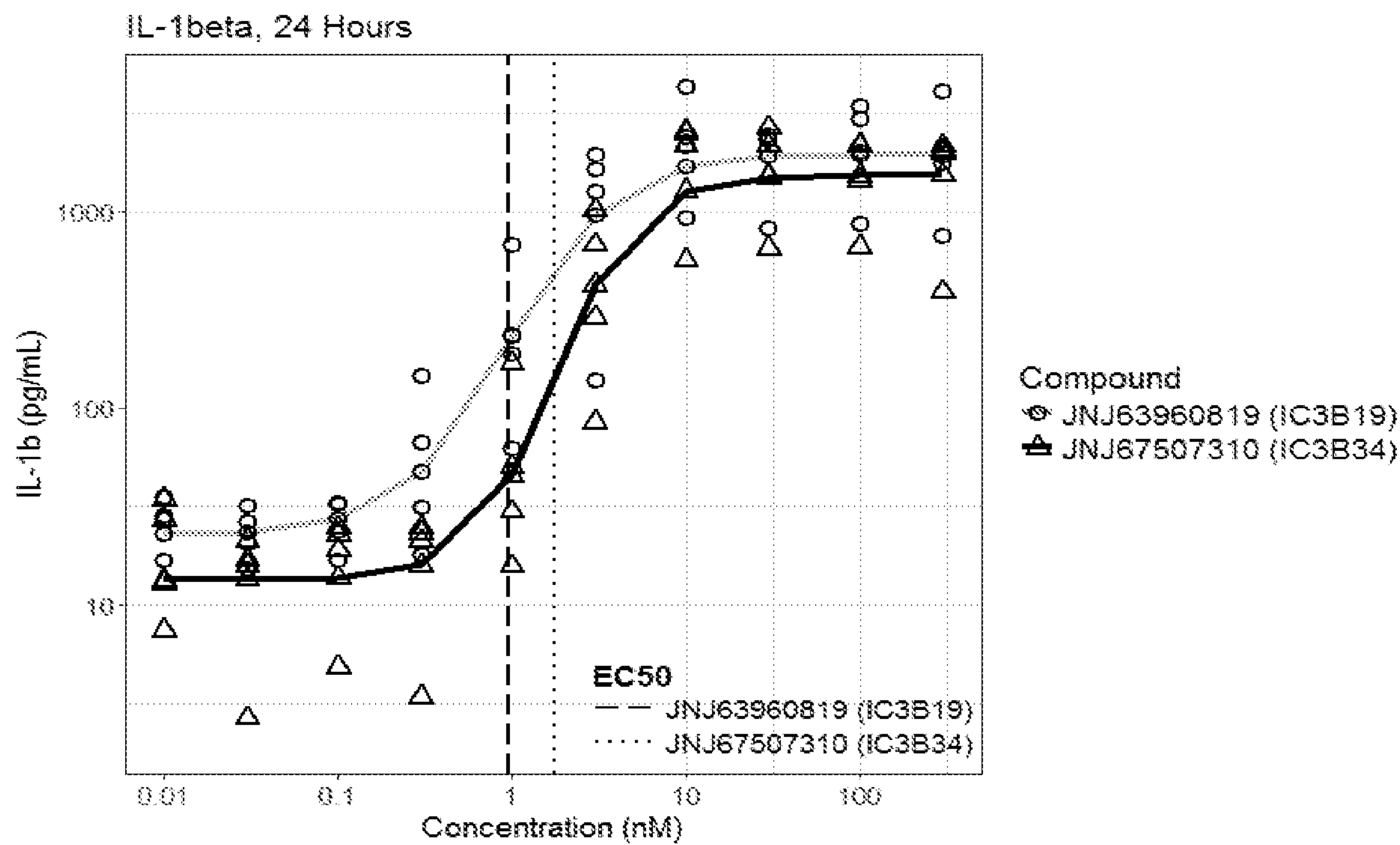
uM	0.0100	0.0300	0.1000	0.3000	1.0000	3.0000	10.0000	30.0000	100.0000	300.0000
ug/mL	0.0015	0.0045	0.0150	0.0450	0.1500	0.4500	1.5000	4.5000	15.0000	45.0000

Fig. 36



uM	0.0100	0.0300	0.1000	0.3000	1.0000	3.0000	10.0000	30.0000	100.0000	300.0000
ug/mL	0.0015	0.0045	0.0150	0.0450	0.1500	0.4500	1.5000	4.5000	15.0000	45.0000

Fig. 37A



	Difference	Sigma	p-value
Difference at 0.01	-0.414	0.553	0.9439
Difference at 0.03	-0.718	0.553	0.5723
Difference at 0.1	-0.537	0.553	0.8182
Difference at 0.3	-1.227	0.553	0.1172
Difference at 1	-1.547	0.553	0.0281
Difference at 3	-0.875	0.553	0.3817
Difference at 10	-0.248	0.553	0.9983
Difference at 30	-0.164	0.553	0.9999
Difference at 100	-0.348	0.553	0.9797
Difference at 300	-0.281	0.553	0.9955

Fig. 37B

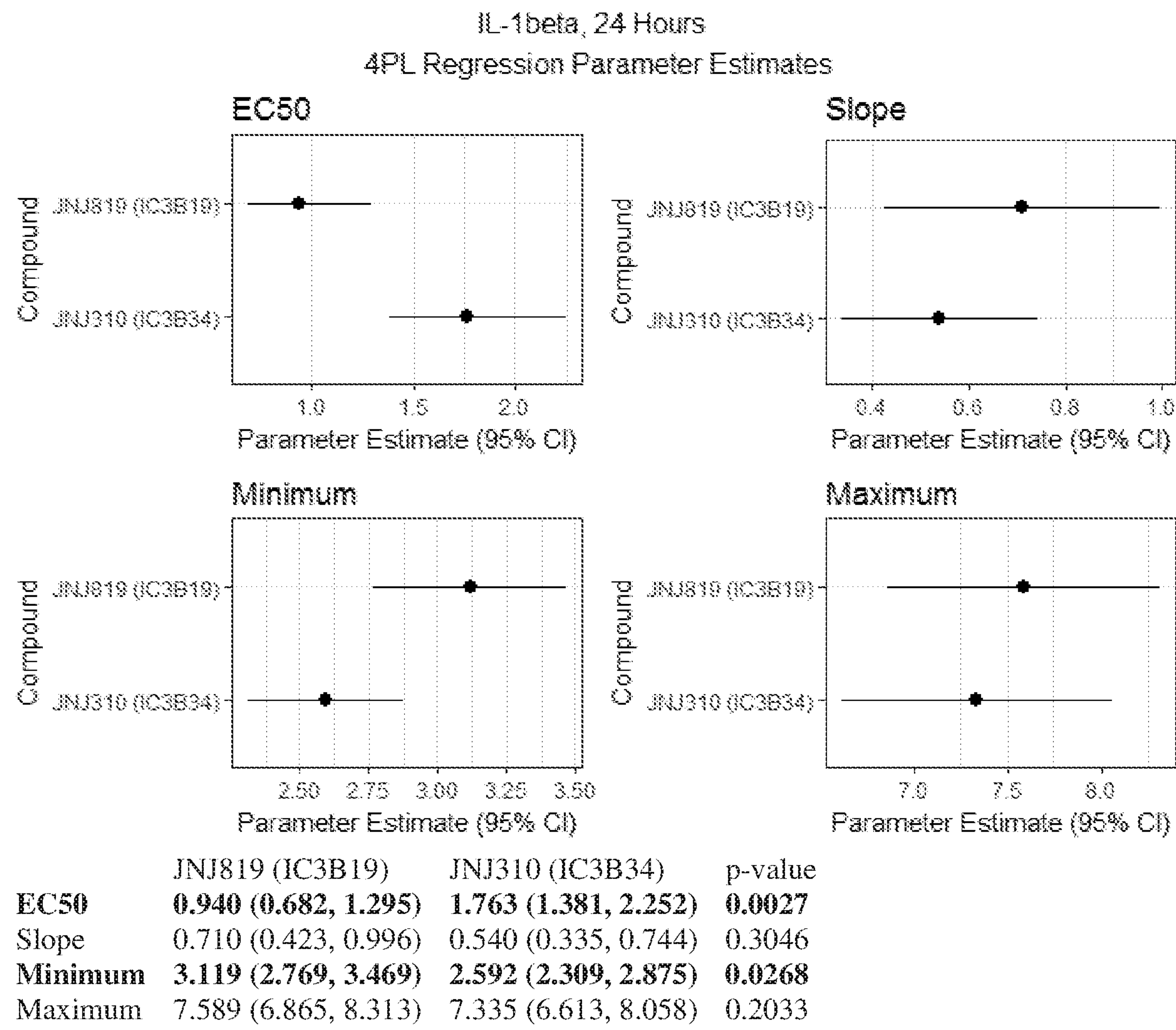
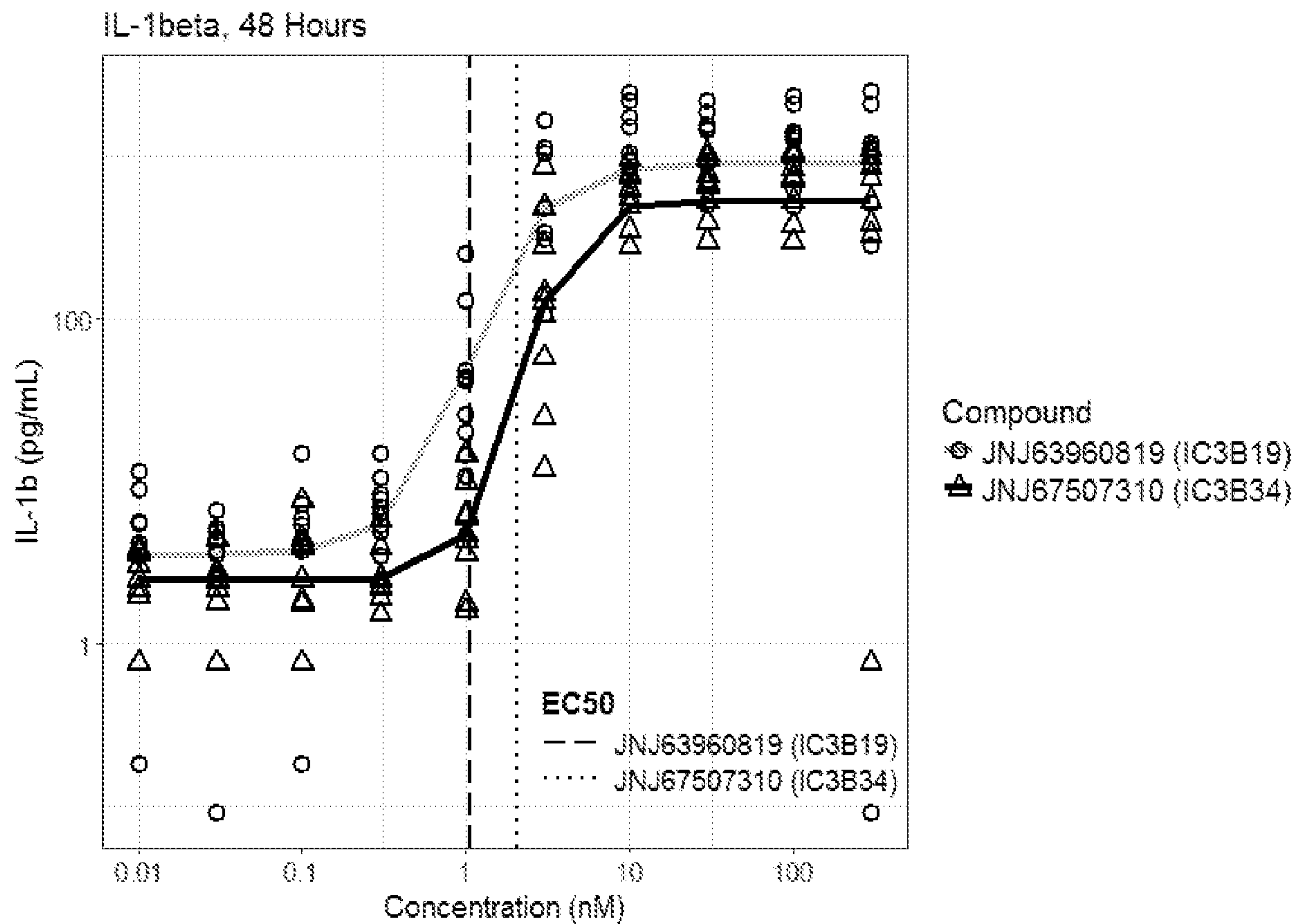
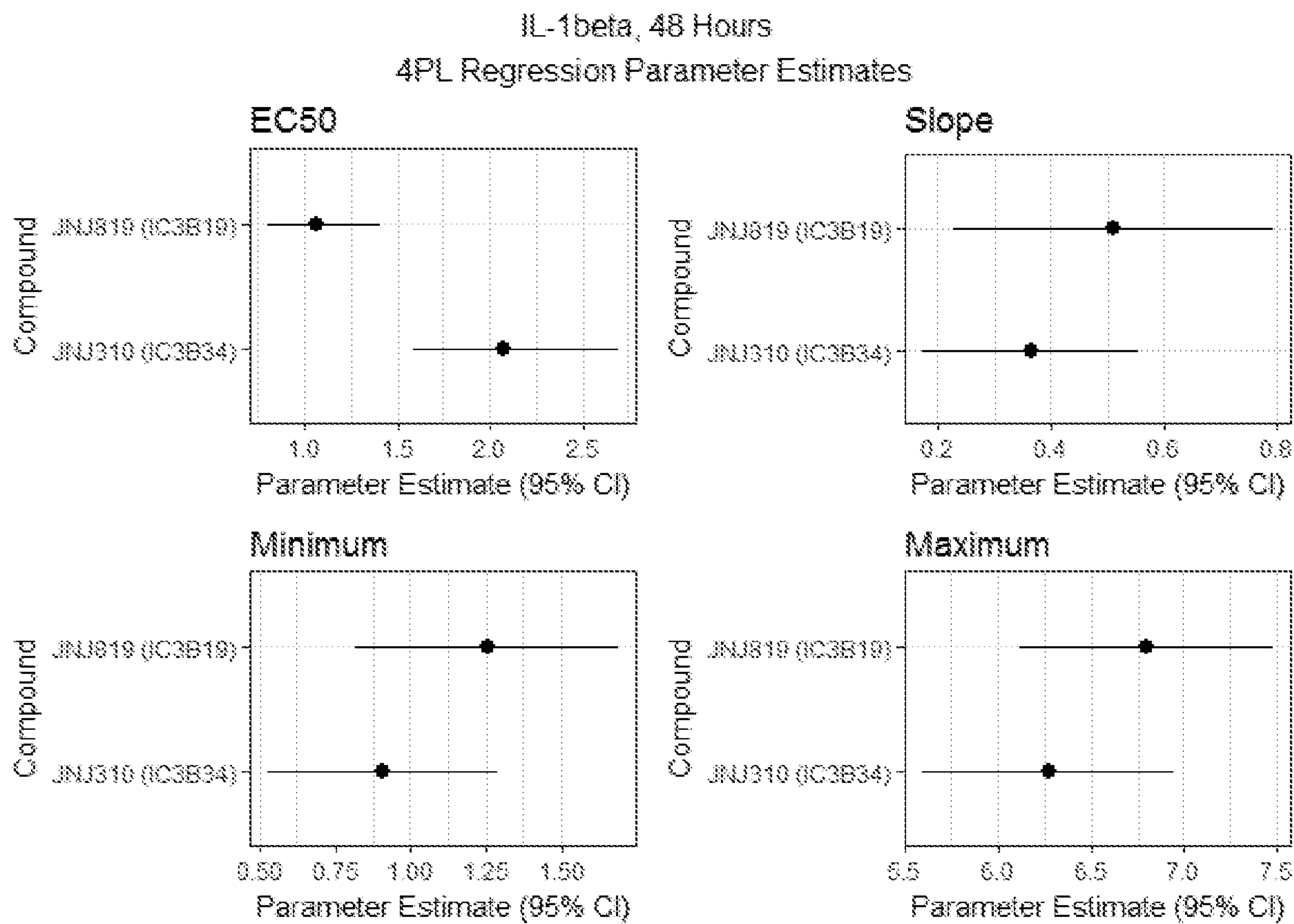


Fig. 38A



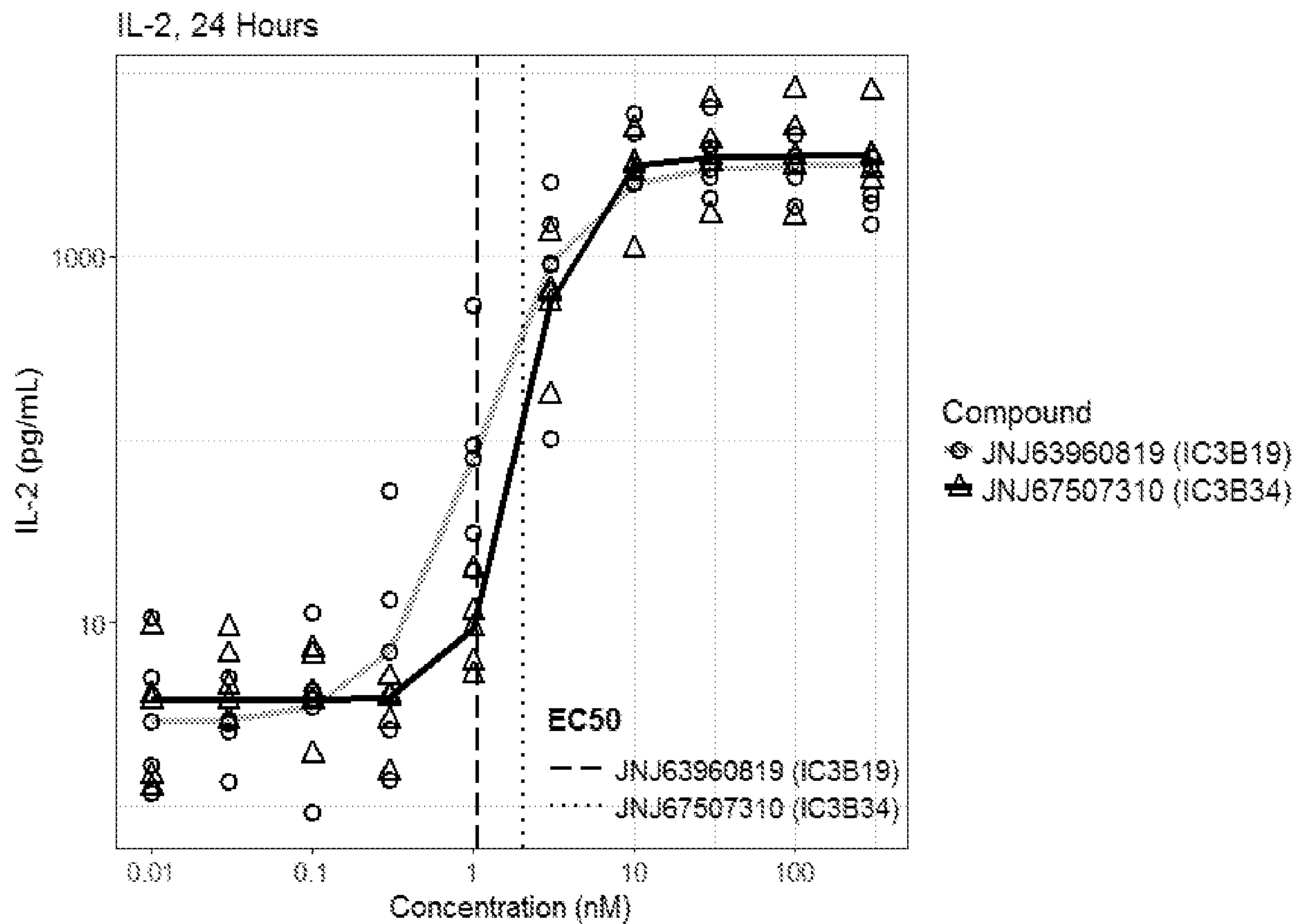
	Difference	Sigma	p-value
Difference at 0.01	-0.431	0.618	0.9976
Difference at 0.03	-0.183	0.618	1.0000
Difference at 0.1	-0.321	0.618	0.9998
Difference at 0.3	-1.020	0.618	0.5913
Difference at 1	-2.105	0.618	0.0064
Difference at 3	-1.508	0.618	0.1255
Difference at 10	-0.806	0.618	0.8424
Difference at 30	-0.624	0.618	0.9635
Difference at 100	-0.556	0.618	0.9834
Difference at 300	-0.049	0.618	1.0000

Fig. 38B



	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	1.060 (0.798, 1.408)	2.068 (1.587, 2.695)	0.0010
Slope	0.512 (0.230, 0.794)	0.365 (0.173, 0.557)	0.3951
Minimum	1.254 (0.818, 1.690)	0.905 (0.525, 1.286)	0.2543
Maximum	6.798 (6.117, 7.478)	6.268 (5.589, 6.947)	0.0528

Fig. 39A



	Difference	Sigma	p-value
Difference at 0.01	-0.105	0.599	1.0000
Difference at 0.03	0.704	0.599	0.8315
Difference at 0.1	0.198	0.599	1.0000
Difference at 0.3	-0.841	0.599	0.6679
Difference at 1	-2.095	0.599	0.0041
Difference at 3	-0.330	0.599	0.9989
Difference at 10	-0.382	0.599	0.9963
Difference at 30	0.026	0.599	1.0000
Difference at 100	0.222	0.599	1.0000
Difference at 300	0.568	0.599	0.9440

Fig. 39B

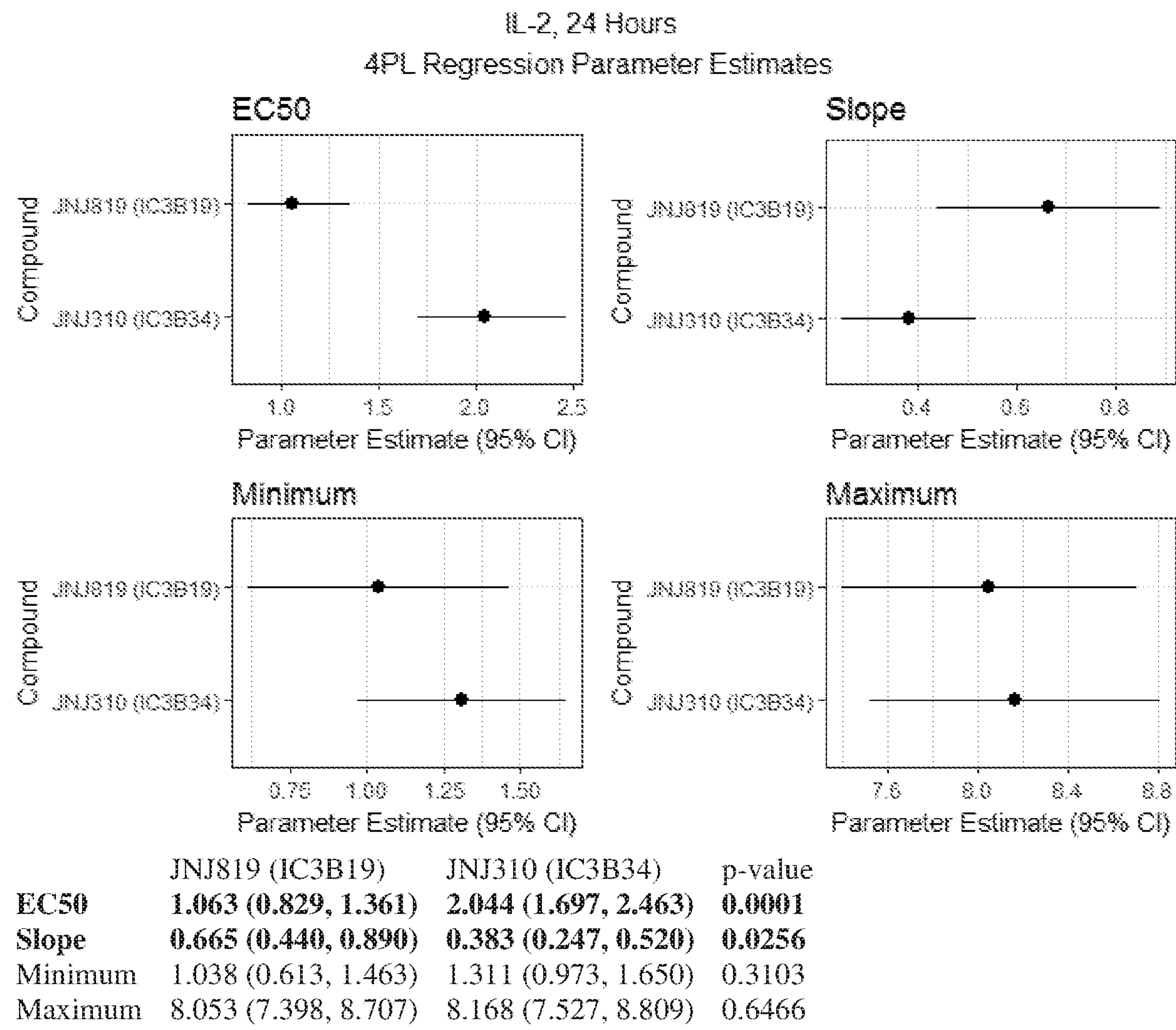
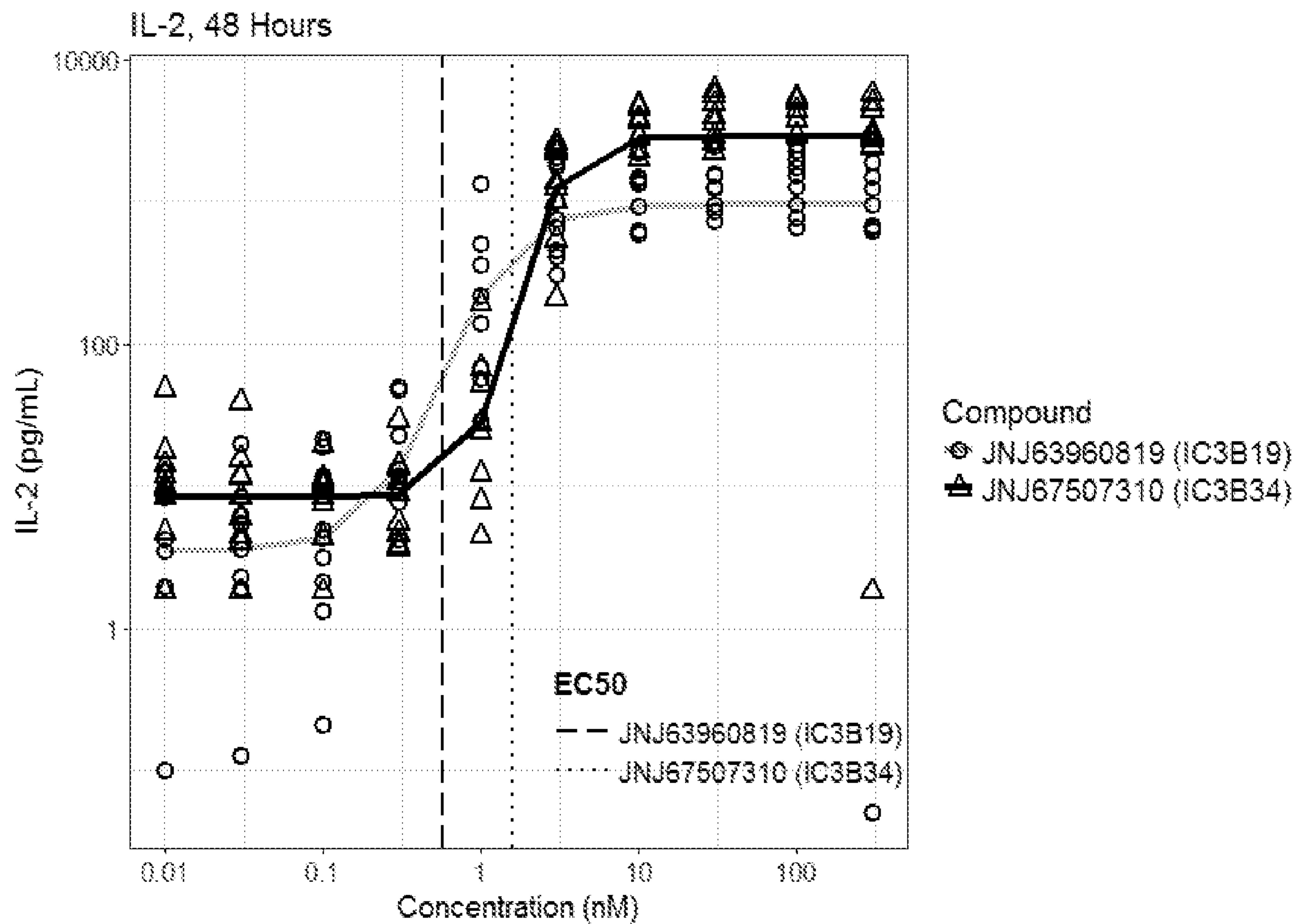
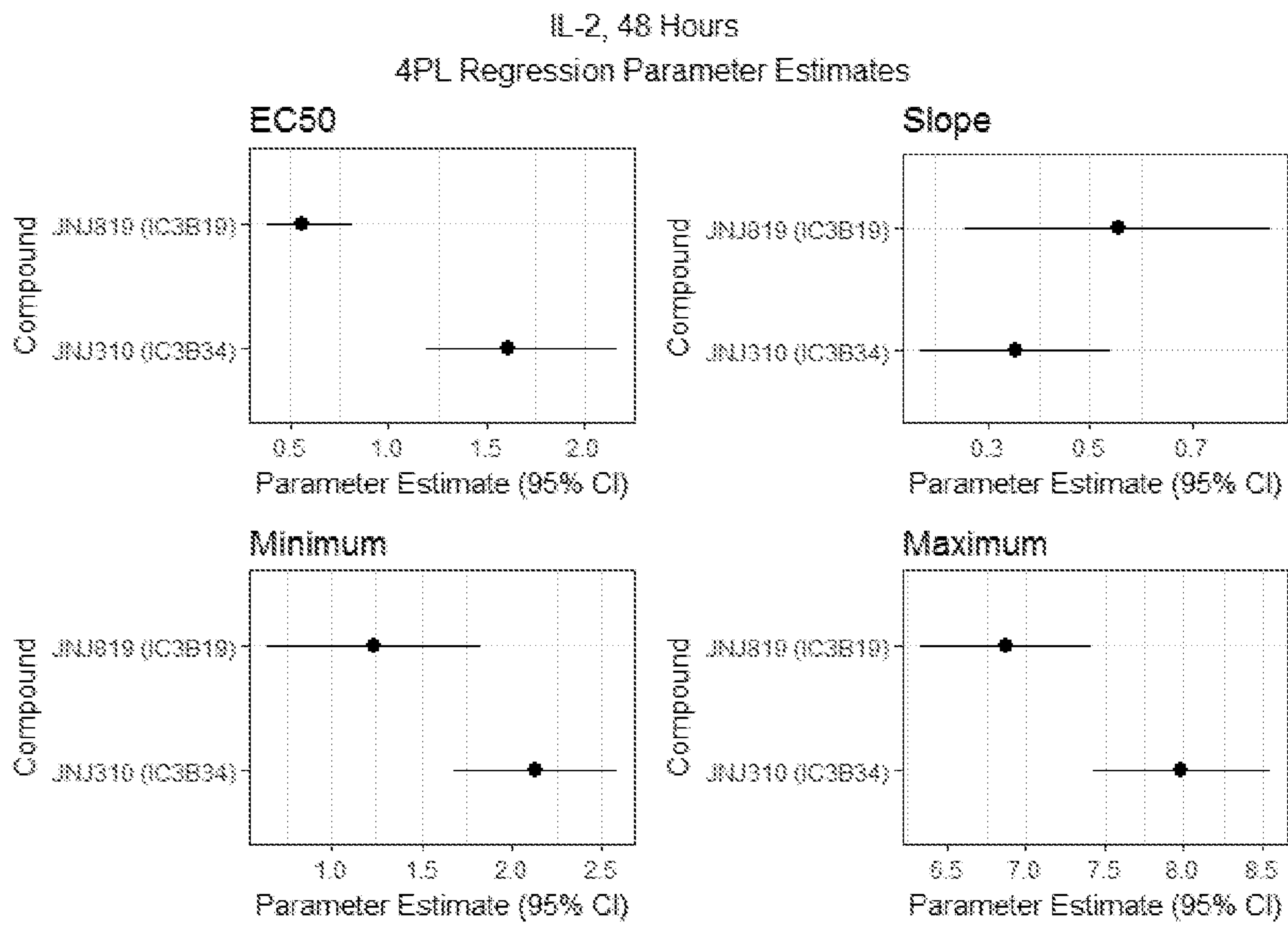


Fig. 40A



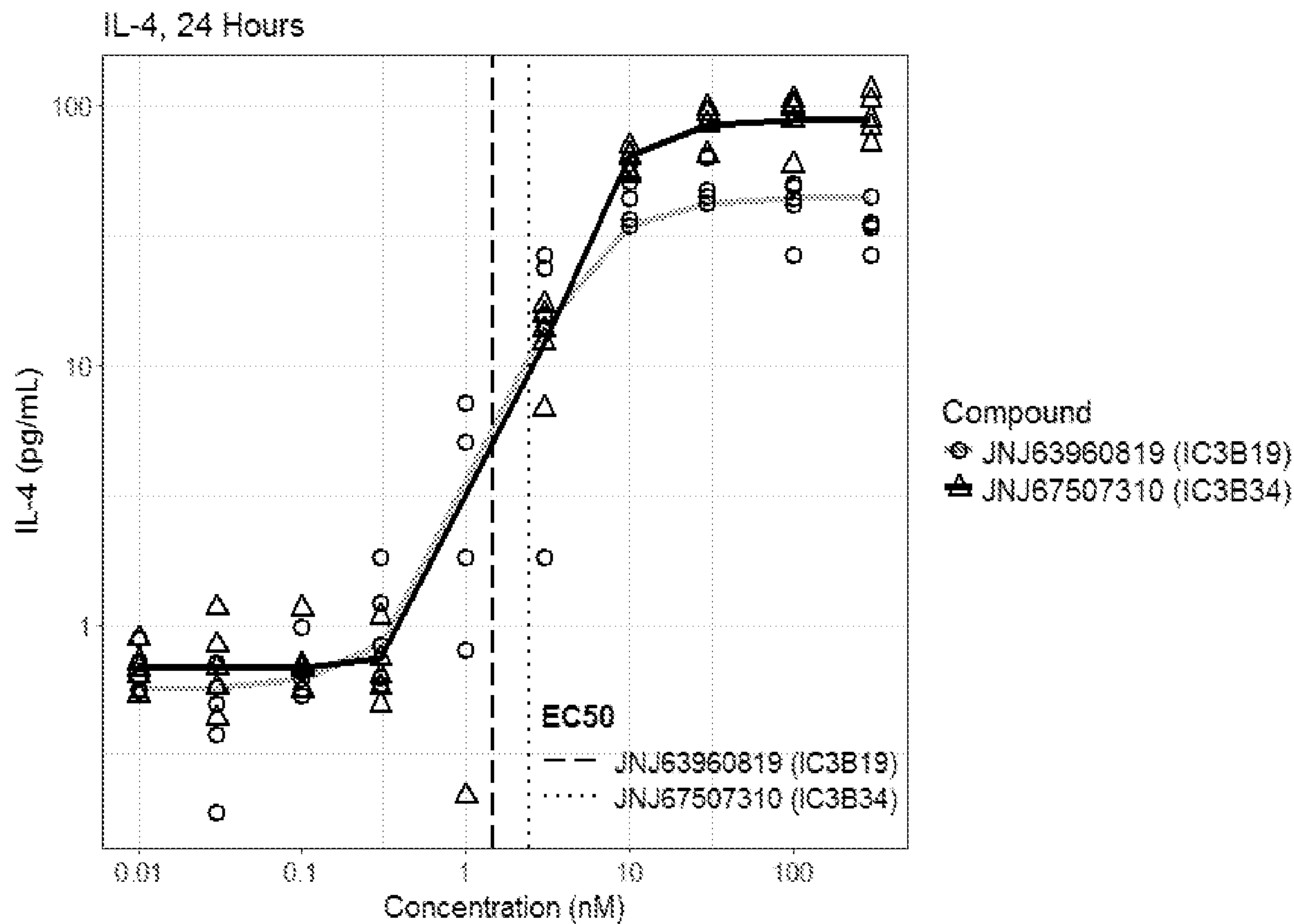
	Difference	Sigma	p-value
Difference at 0.01	0.928	0.676	0.8169
Difference at 0.03	0.859	0.676	0.8755
Difference at 0.1	0.737	0.676	0.9485
Difference at 0.3	-0.567	0.676	0.9917
Difference at 1	-1.950	0.676	0.0370
Difference at 3	0.372	0.676	0.9998
Difference at 10	0.954	0.676	0.7914
Difference at 30	0.987	0.676	0.7576
Difference at 100	1.066	0.676	0.6693
Difference at 300	1.488	0.676	0.2289

Fig. 40B



	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.558 (0.380, 0.821)	1.611 (1.199, 2.166)	Sig.
Slope	0.554 (0.256, 0.851)	0.353 (0.168, 0.539)	0.2079
Minimum	1.231 (0.638, 1.824)	2.129 (1.674, 2.584)	0.0158
Maximum	6.874 (6.327, 7.421)	7.988 (7.425, 8.551)	0.0008

Fig. 41A



	Difference	Sigma	p-value
Difference at 0.01	-0.010	0.301	1.0000
Difference at 0.03	0.563	0.301	0.3761
Difference at 0.1	0.110	0.301	1.0000
Difference at 0.3	-0.361	0.301	0.8592
Difference at 3	0.081	0.301	1.0000
Difference at 10	0.253	0.301	0.9815
Difference at 30	0.439	0.301	0.6850
Difference at 100	0.780	0.301	0.0749
Difference at 300	1.031	0.301	0.0054

Fig. 41B

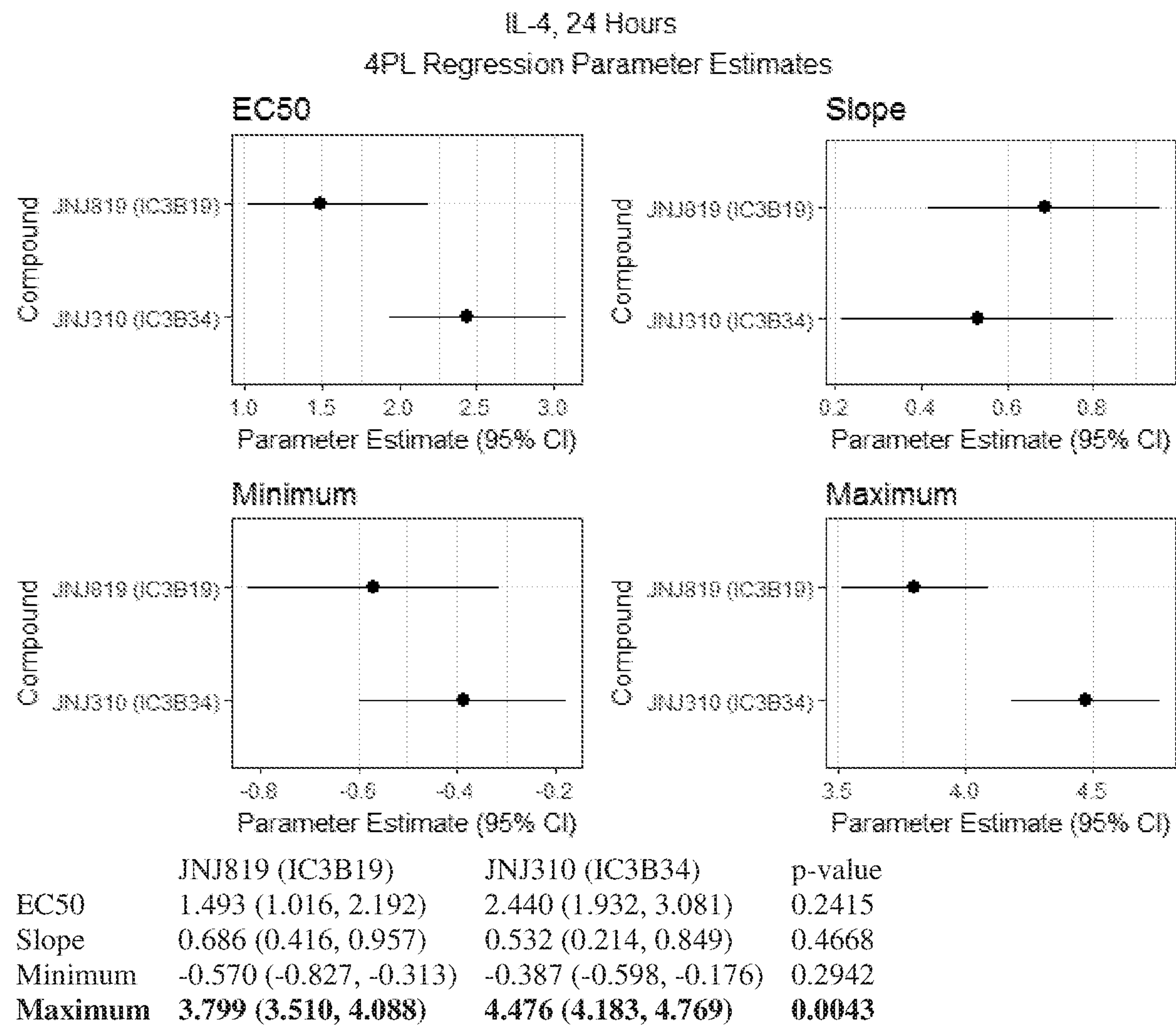
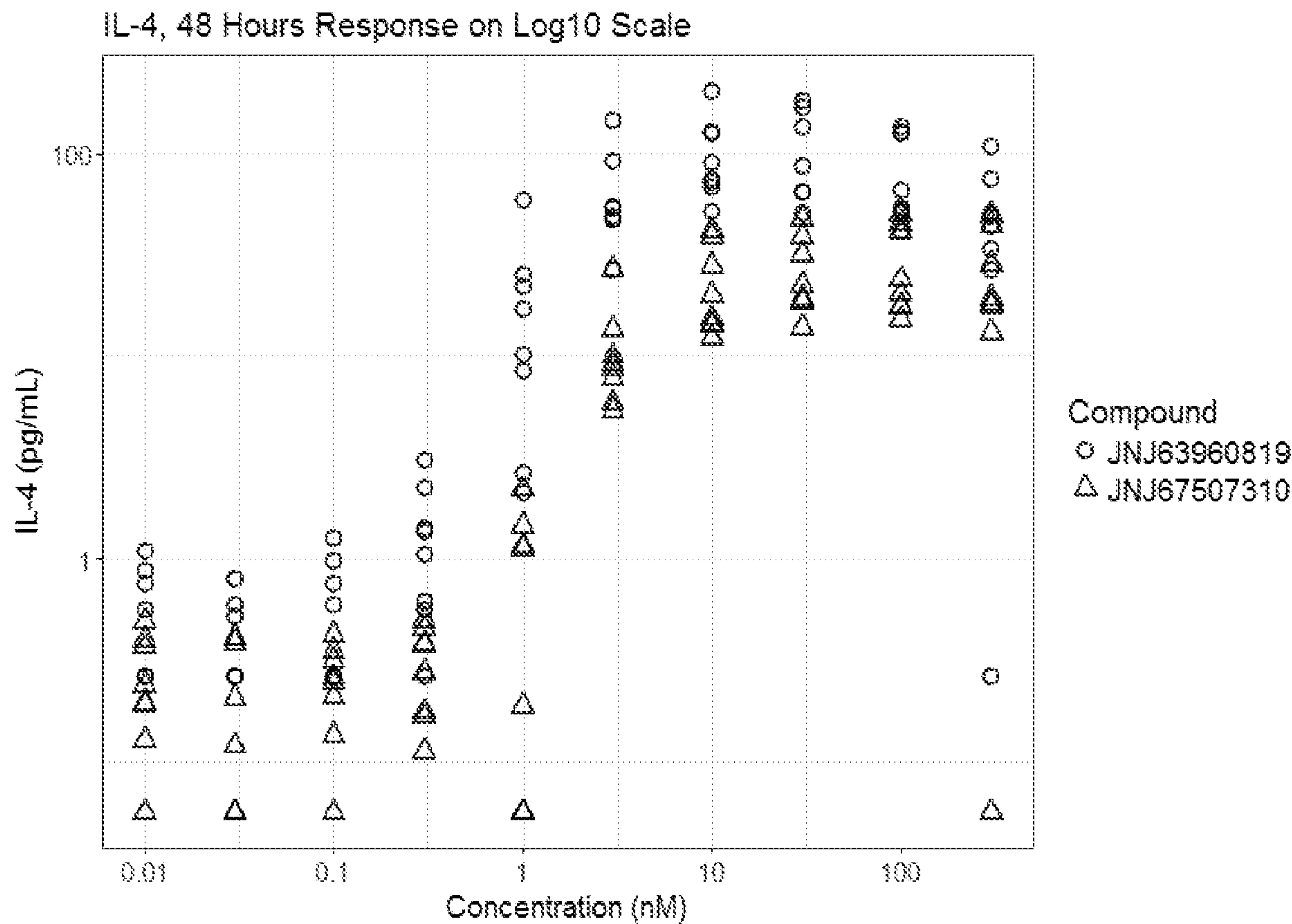
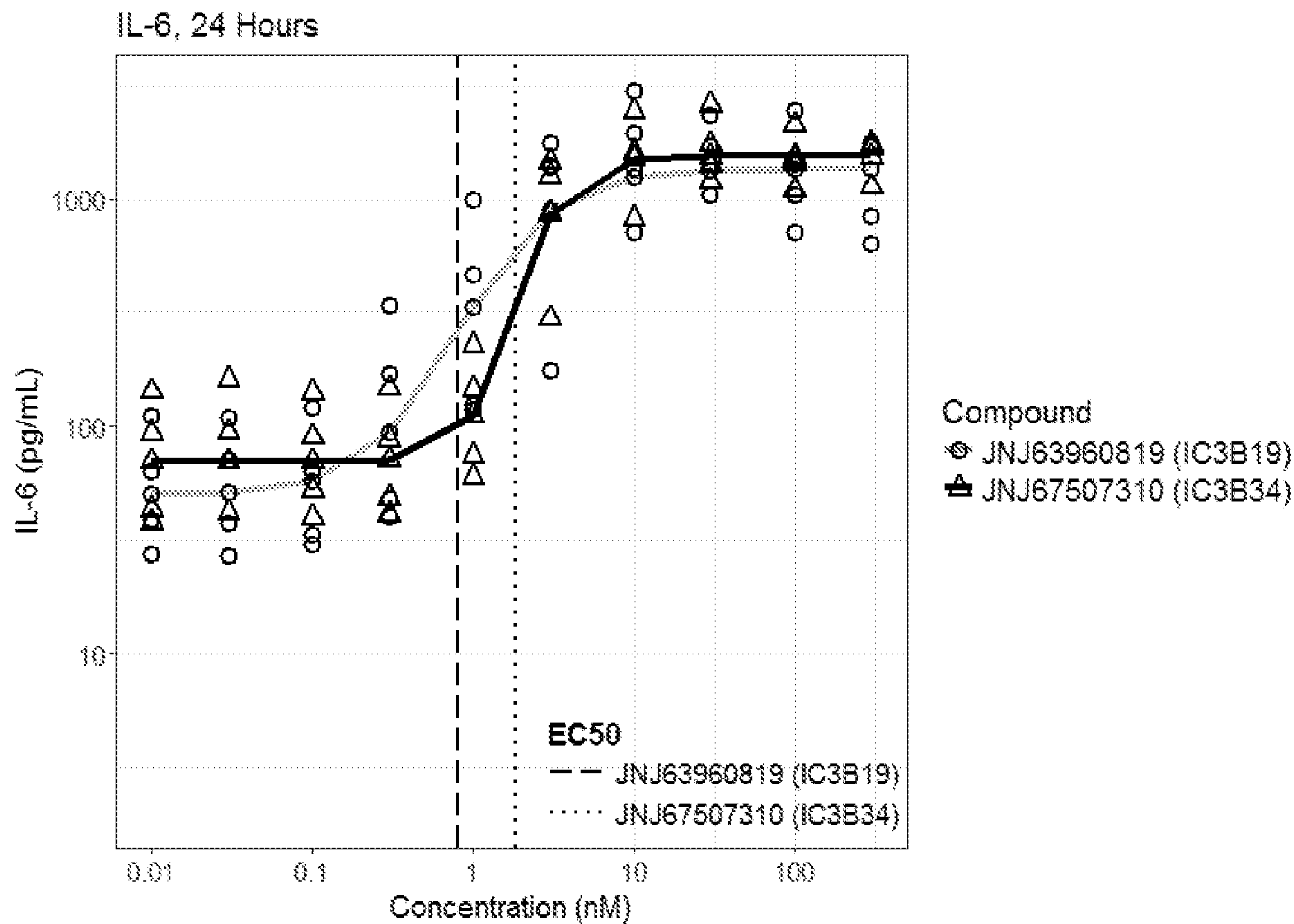


Fig. 42



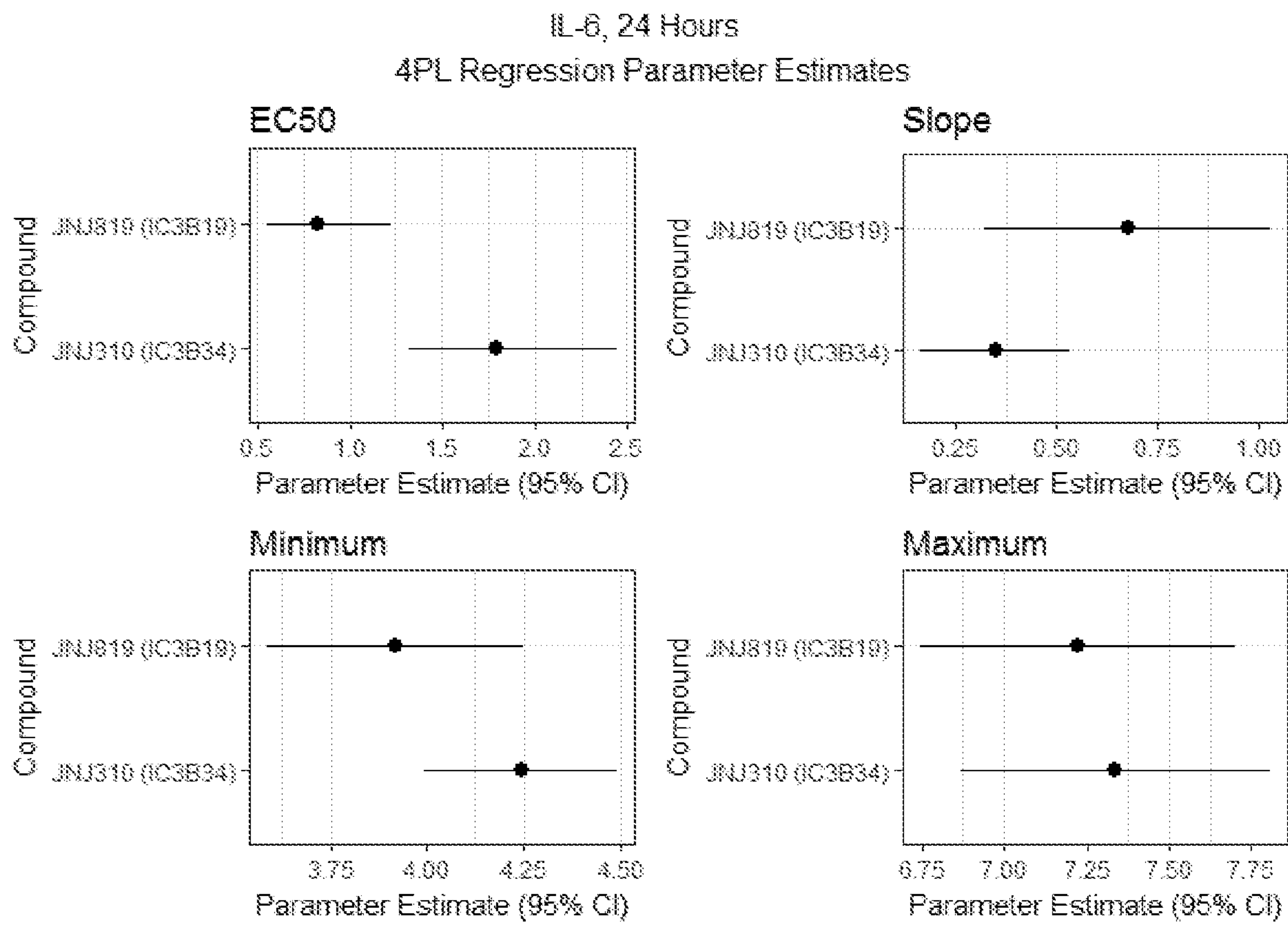
	Difference	Sigma	p-value
Difference at 0.01	-0.756	0.474	0.6568
Difference at 0.03	-0.882	0.474	0.4482
Difference at 0.1	-0.795	0.474	0.5915
Difference at 0.3	-1.337	0.474	0.0454
Difference at 1	-3.54	0.474	<0.0001
Difference at 3	-1.786	0.474	0.0016
Difference at 10	-1.504	0.474	0.0146
Difference at 30	-1.329	0.474	0.0475
Difference at 100	-1.043	0.474	0.2301
Difference at 300	-0.831	0.474	0.5305

Fig. 43A



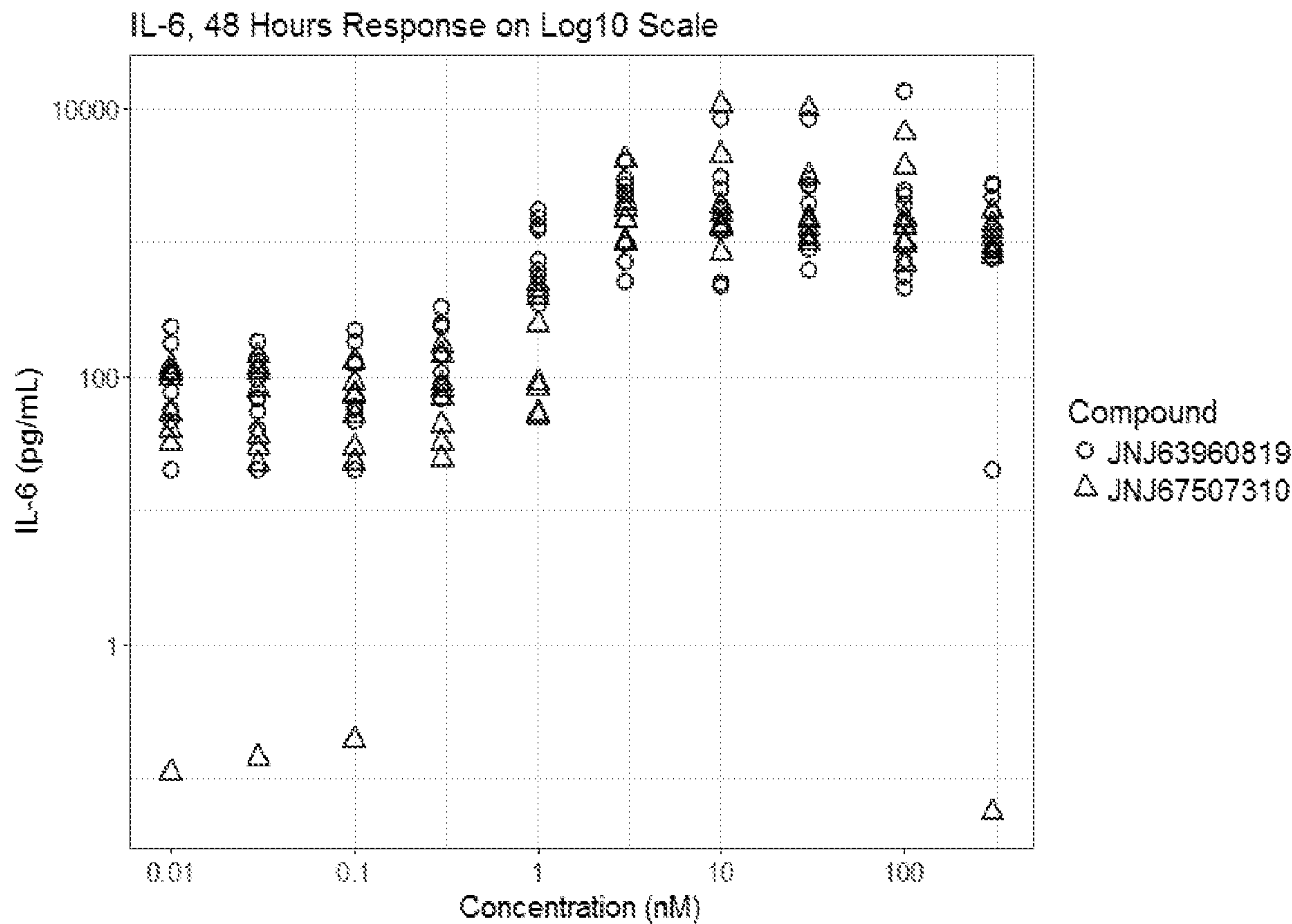
	Difference	Sigma	p-value
Difference at 0.01	0.263	0.456	0.9990
Difference at 0.03	0.302	0.456	0.9970
Difference at 0.1	0.304	0.456	0.9968
Difference at 0.3	-0.367	0.456	0.9866
Difference at 1	-0.962	0.456	0.2340
Difference at 3	-0.059	0.456	1.0000
Difference at 10	-0.037	0.456	1.0000
Difference at 30	0.056	0.456	1.0000
Difference at 100	0.156	0.456	1.0000
Difference at 300	0.314	0.456	0.9958

Fig. 43B



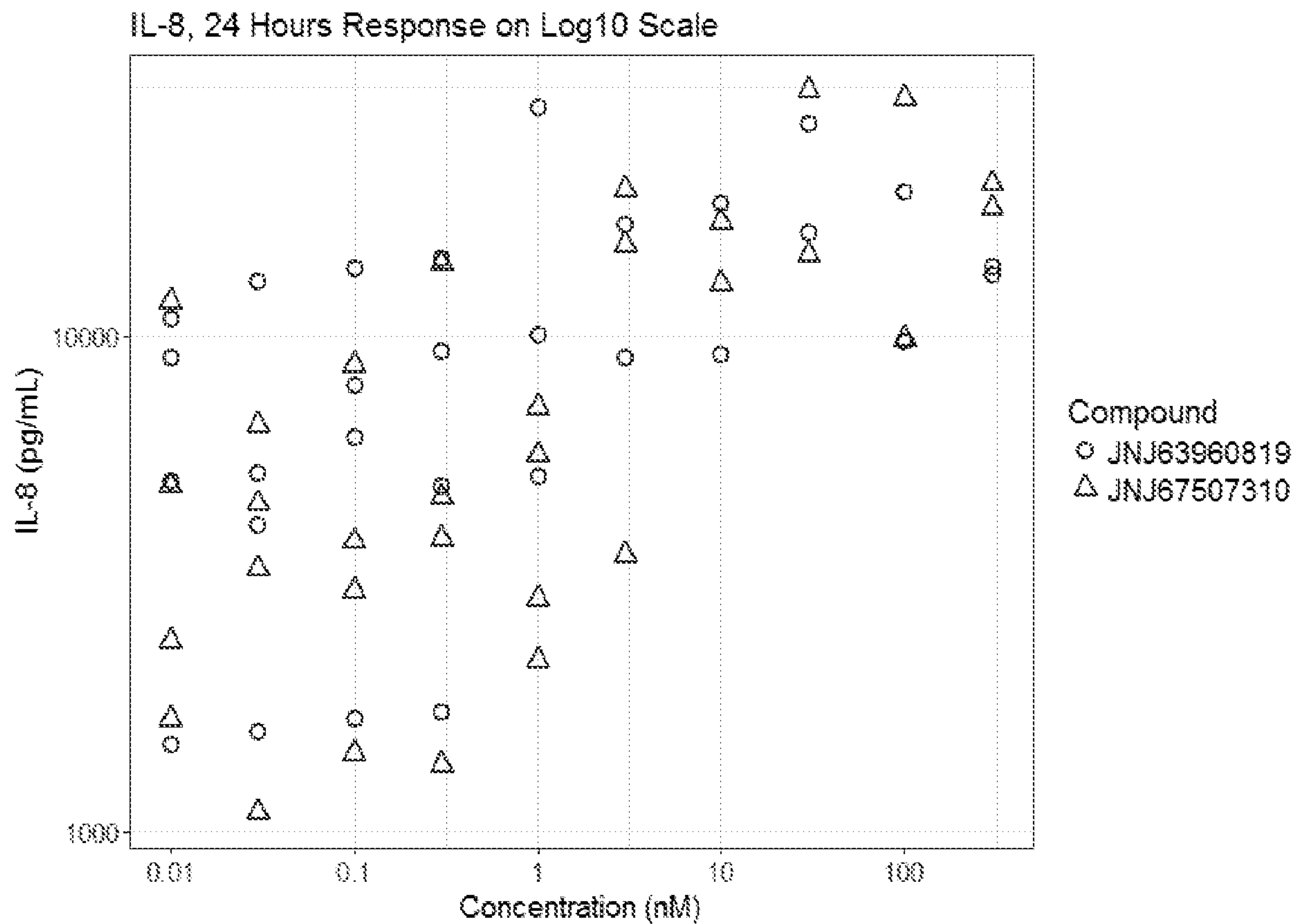
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.821 (0.549, 1.229)	1.796 (1.320, 2.444)	Sig.
Slope	0.678 (0.324, 1.031)	0.349 (0.162, 0.536)	0.0819
Minimum	3.917 (3.582, 4.252)	4.243 (3.993, 4.493)	0.1151
Maximum	7.221 (6.742, 7.700)	7.337 (6.865, 7.808)	0.5224

Fig. 44



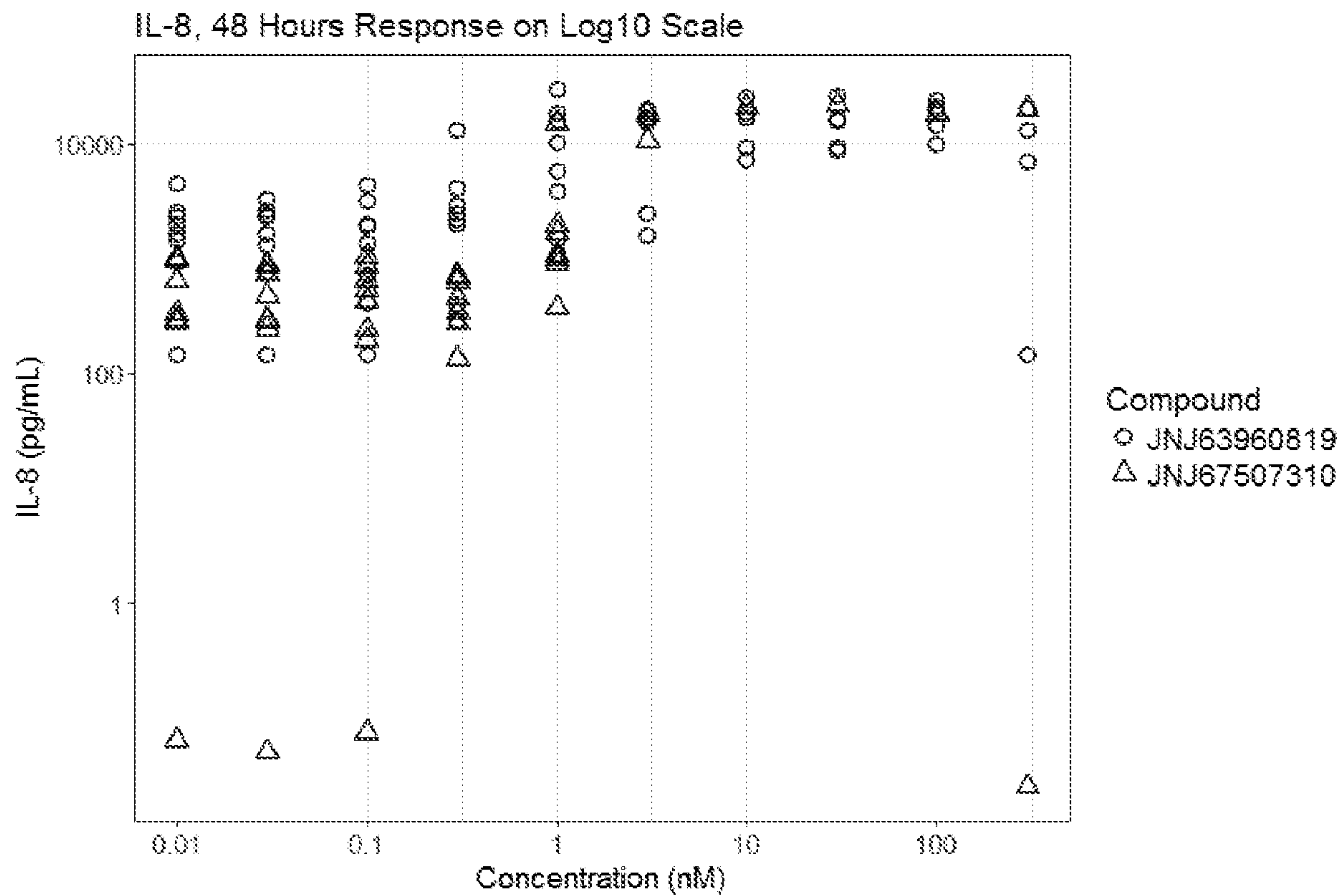
	Difference	Sigma	p-value
Difference at 0.01	-0.948	0.698	0.8438
Difference at 0.03	-0.875	0.698	0.8982
Difference at 0.1	-1.071	0.698	0.7261
Difference at 0.3	-0.811	0.698	0.9349
Difference at 1	-1.724	0.698	0.1254
Difference at 3	-0.090	0.698	1.0000
Difference at 10	0.207	0.698	1.0000
Difference at 30	-0.061	0.698	1.0000
Difference at 100	-0.001	0.698	1.0000
Difference at 300	-1.001	0.698	0.7966

Fig. 45



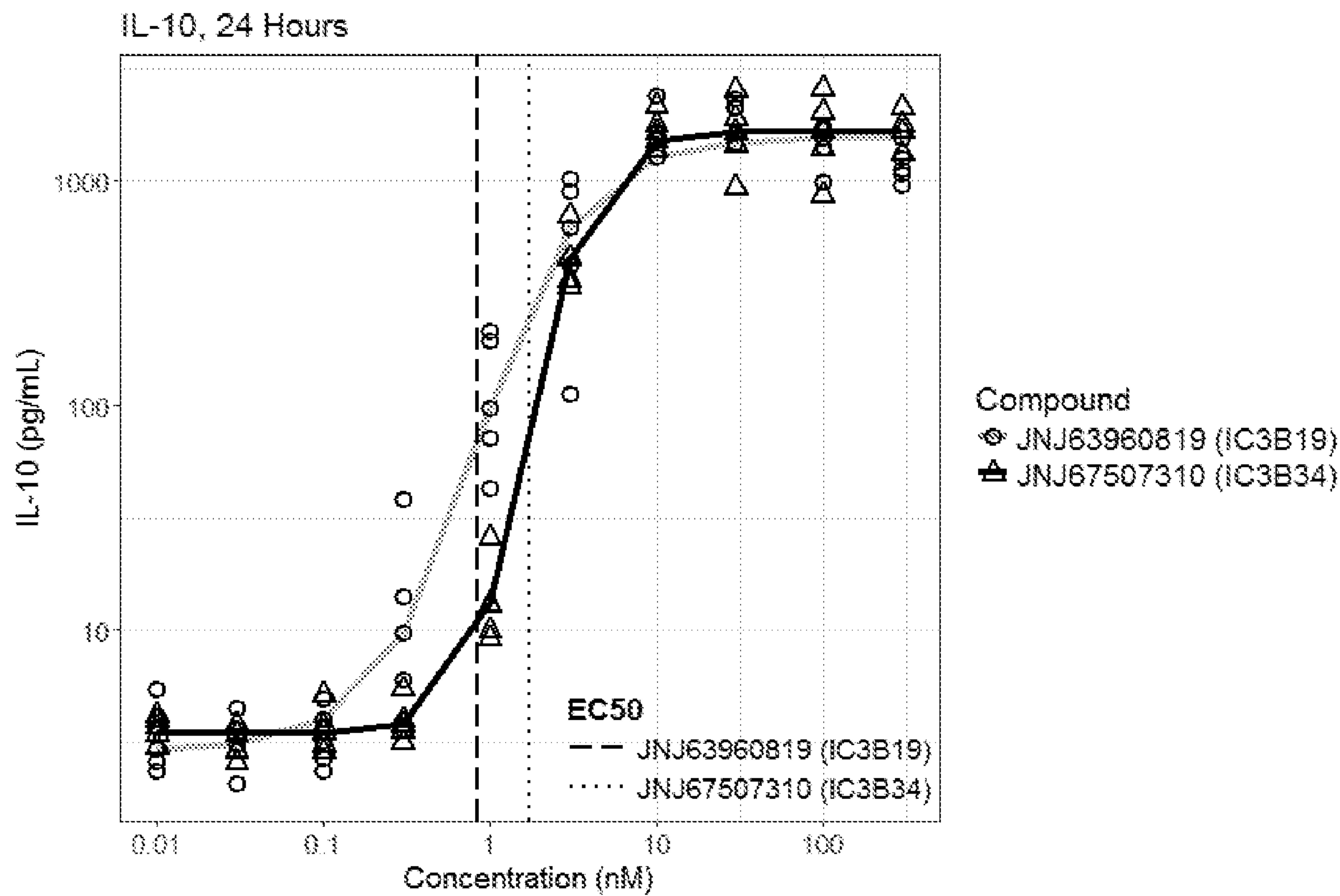
	Difference	Sigma	p-value
Difference at 0.01	-0.285	0.560	0.9985
Difference at 0.03	-0.349	0.560	0.9927
Difference at 0.1	-0.512	0.560	0.9192
Difference at 0.3	-0.299	0.560	0.9977
Difference at 1	-1.276	0.576	0.1433
Difference at 3	-0.311	0.621	0.9986
Difference at 10	0.158	0.649	1.0000
Difference at 30	0.062	0.649	1.0000
Difference at 100	0.259	0.649	0.9998
Difference at 300	0.386	0.649	0.9948

Fig. 46



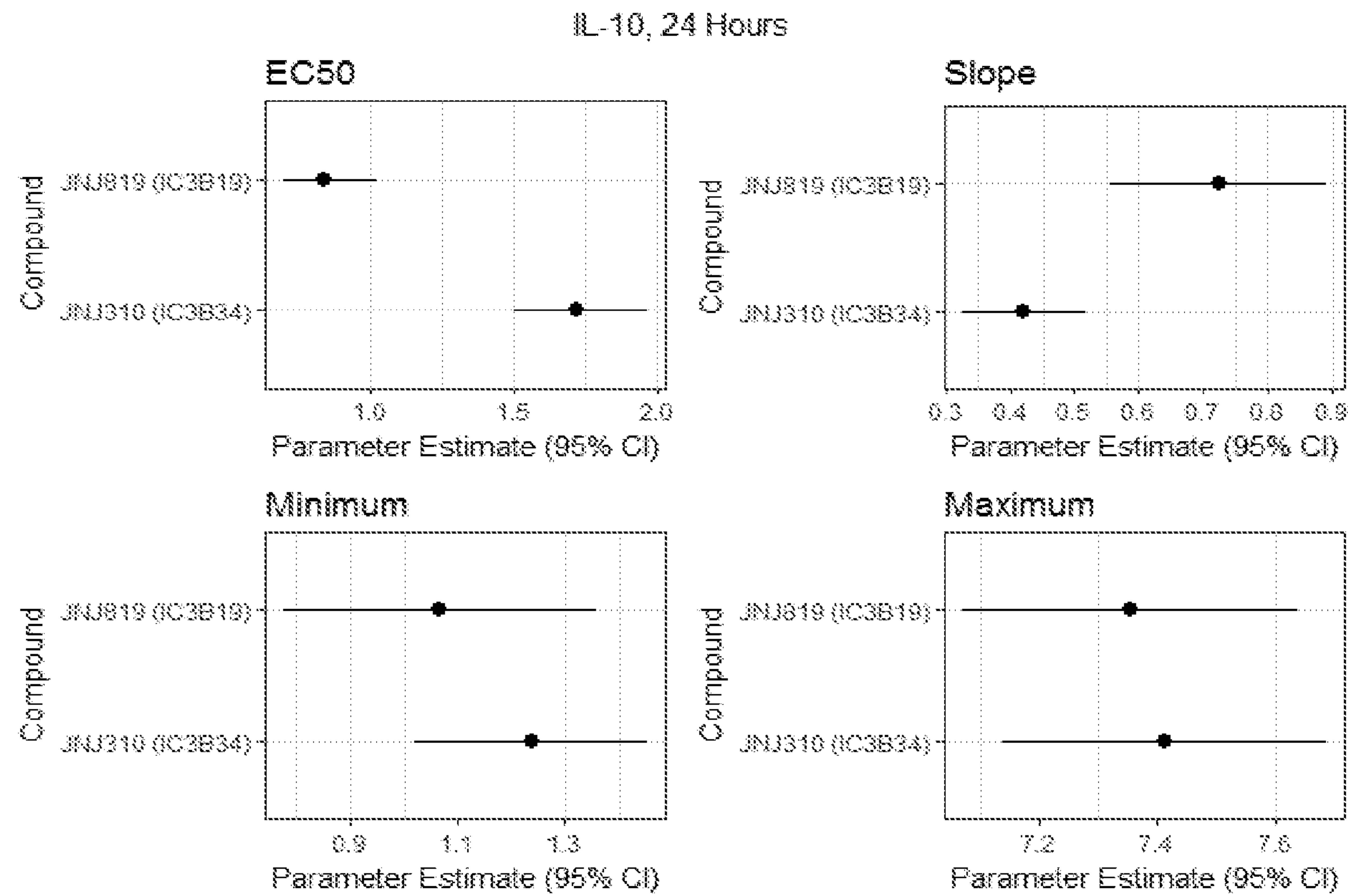
	Difference	Sigma	p-value
Difference at 0.01	-2.073	1.303	0.3365
Difference at 0.03	-2.198	1.303	0.2873
Difference at 0.1	-1.972	1.303	0.3811
Difference at 0.3	-2.753	1.309	0.1302
Difference at 1	-2.650	1.309	0.1533
Difference at 3	-0.834	1.419	0.9715
Difference at 10	-0.880	1.551	0.9766
Difference at 30	-0.819	1.551	0.9847
Difference at 100	-1.189	1.551	0.8961
Difference at 300	-1.909	1.445	0.5029

Fig. 47A



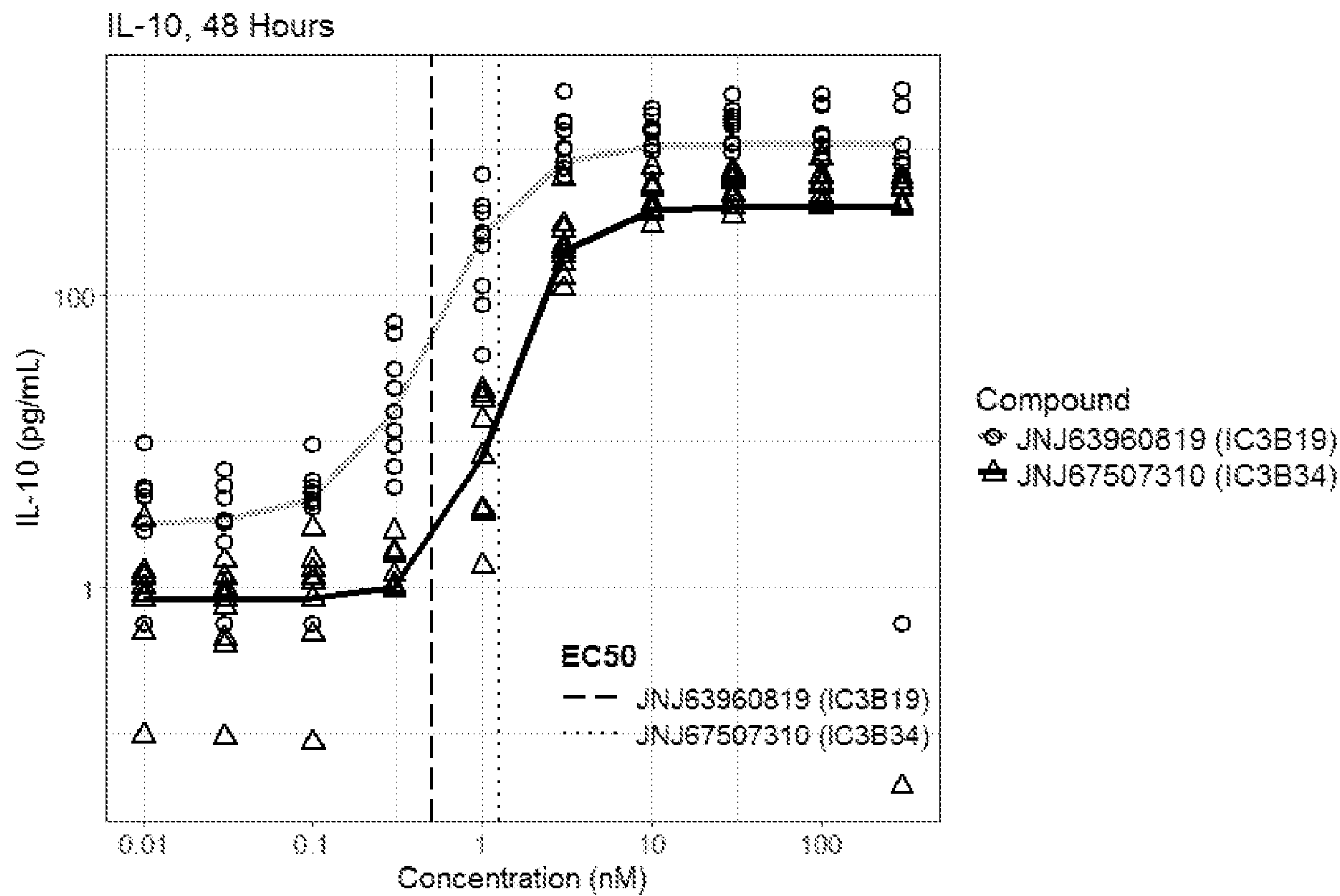
	Difference	Sigma	p-value
Difference at 0.01	0.098	0.325	1.0000
Difference at 0.03	-0.077	0.325	1.0000
Difference at 0.1	0.127	0.325	1.0000
Difference at 0.3	-0.963	0.325	0.0293
Difference at 1	-2.09	0.325	<0.0001
Difference at 3	-0.026	0.325	1.0000
Difference at 10	-0.037	0.325	1.0000
Difference at 30	-0.245	0.325	0.9967
Difference at 100	0.098	0.325	1.0000
Difference at 300	0.375	0.325	0.9308

Fig. 47B



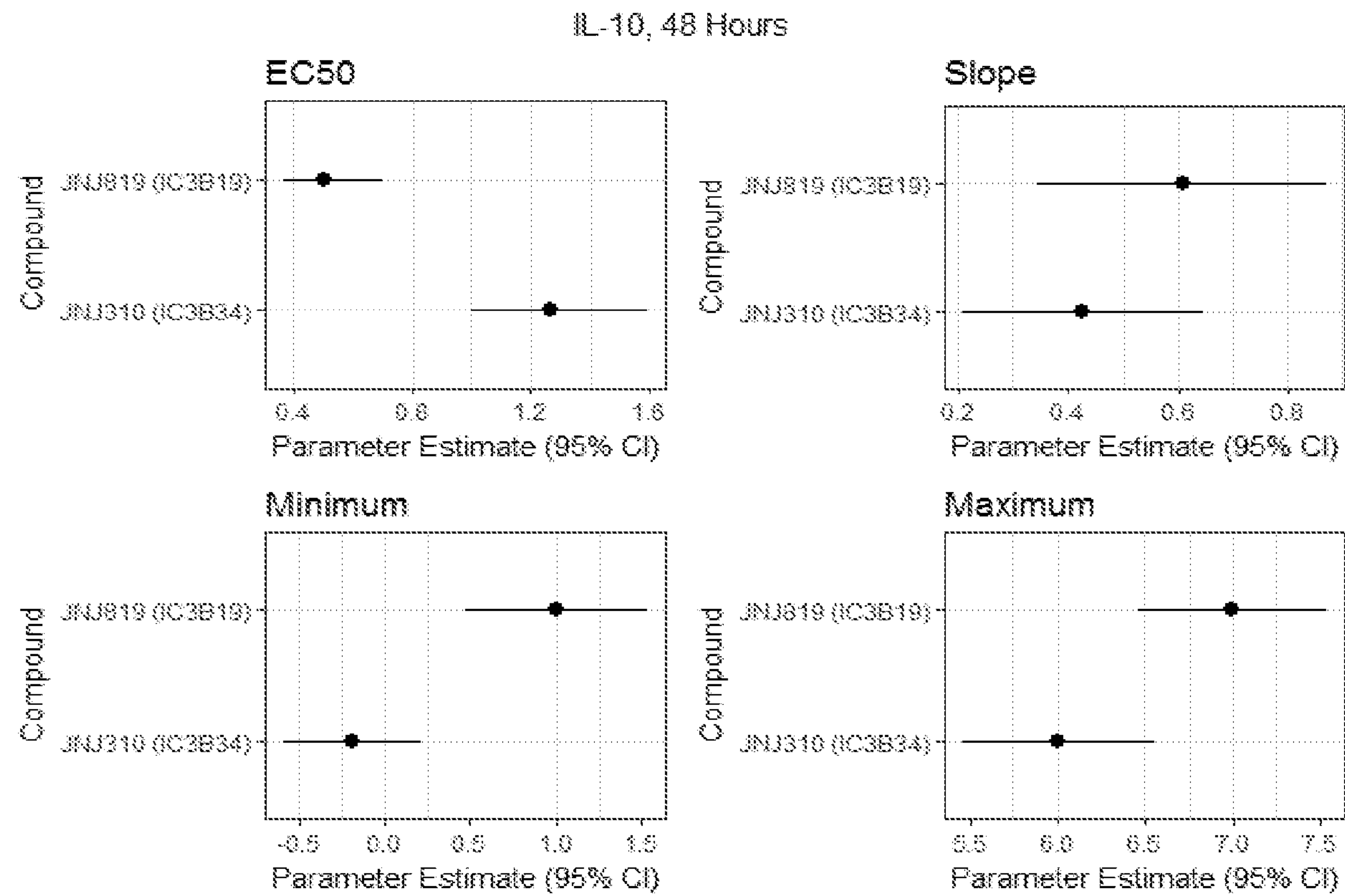
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.844 (0.698, 1.021)	1.718 (1.500, 1.968)	<0.0001
Slope	0.724 (0.557, 0.892)	0.421 (0.325, 0.517)	0.0010
Minimum	1.067 (0.775, 1.359)	1.237 (1.020, 1.453)	0.3406
Maximum	7.353 (7.070, 7.636)	7.413 (7.140, 7.686)	0.7036

Fig. 48A



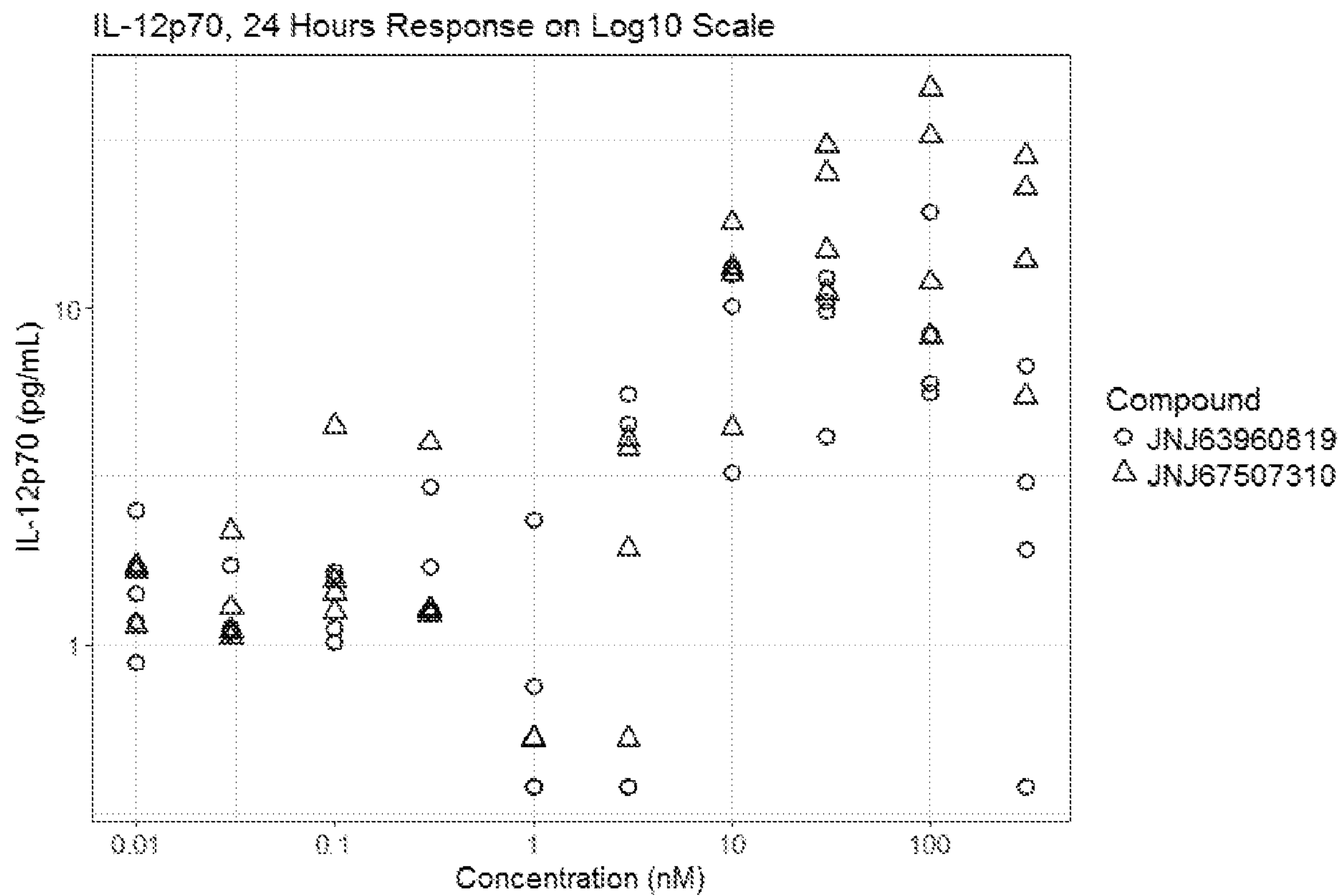
	Difference	Sigma	p-value
Difference at 0.01	-1.404	0.583	0.1405
Difference at 0.03	-1.391	0.583	0.1484
Difference at 0.1	-1.472	0.583	0.1043
Difference at 0.3	-2.546	0.583	1e-04
Difference at 1	-3.33	0.583	<0.0001
Difference at 3	-1.693	0.583	0.0352
Difference at 10	-0.98	0.583	0.5852
Difference at 30	-1.011	0.583	0.5434
Difference at 100	-0.898	0.583	0.6952
Difference at 300	-0.956	0.583	0.6178

Fig. 48B



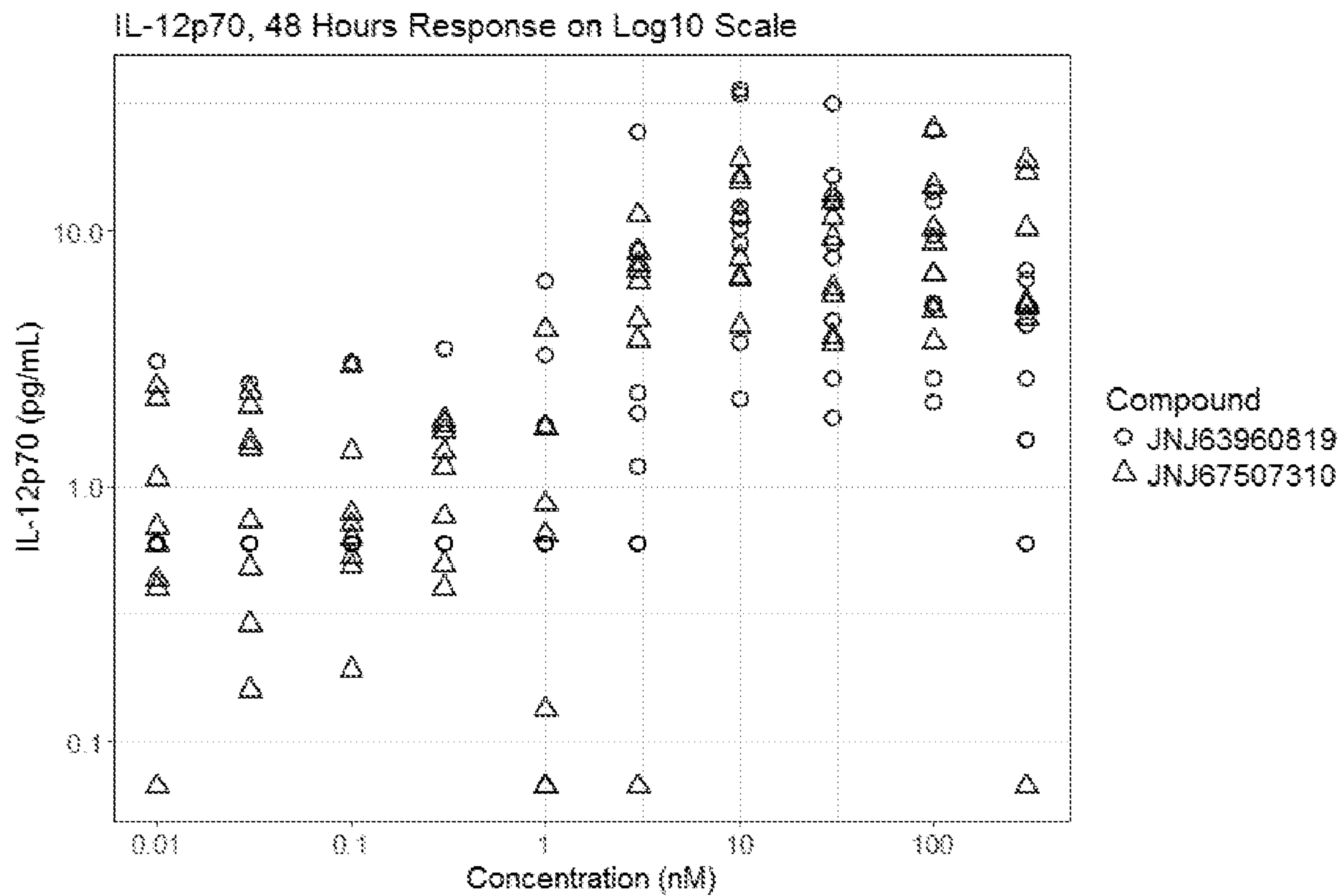
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.503 (0.362, 0.697)	1.263 (1.000, 1.595)	<0.0001
Slope	0.607 (0.344, 0.870)	0.425 (0.206, 0.644)	0.2702
Minimum	1.006 (0.471, 1.540)	-0.192 (-0.599, 0.214)	0.0011
Maximum	6.999 (6.459, 7.539)	6.004 (5.453, 6.554)	0.0004

Fig. 49



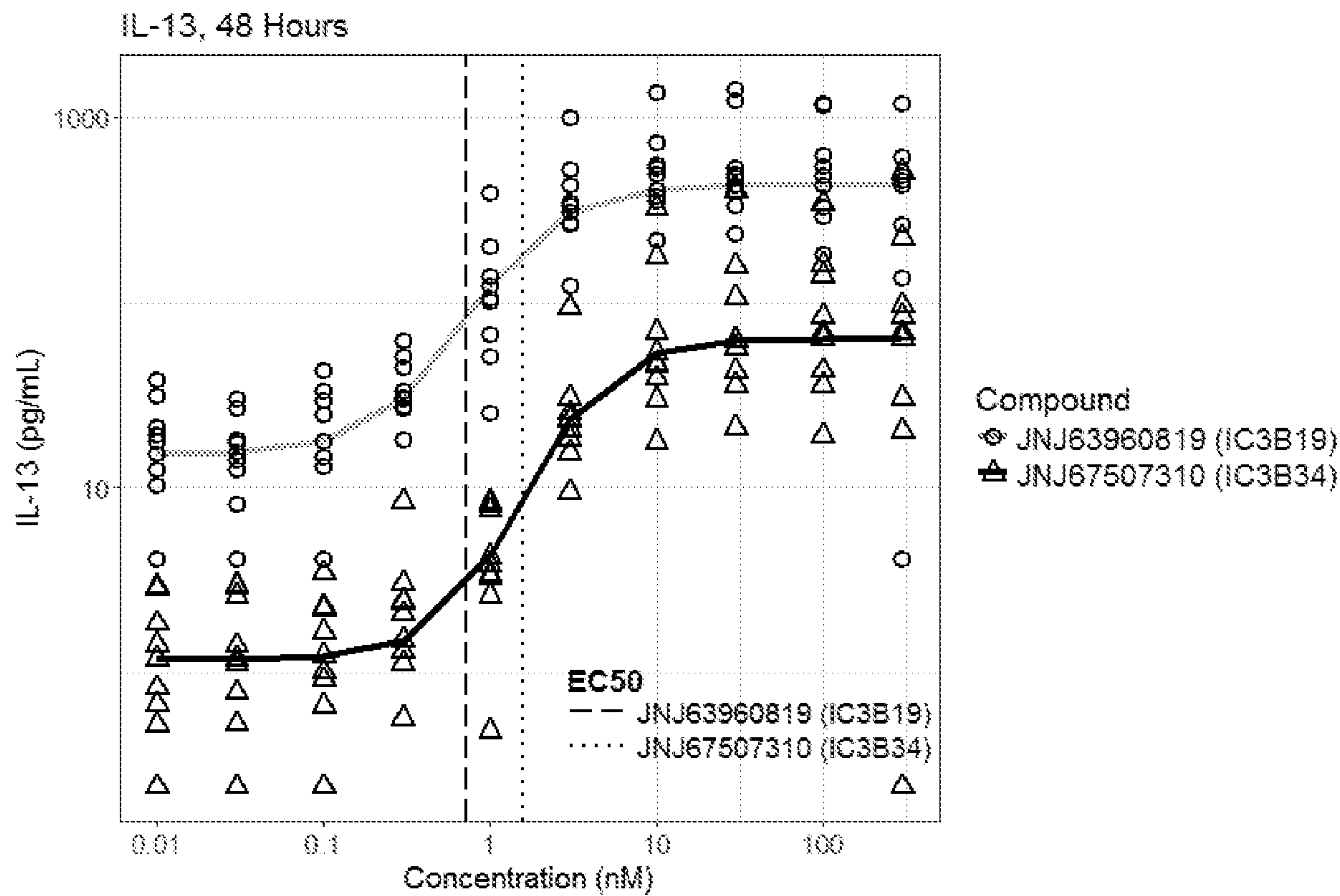
	Difference	Sigma	p-value
Difference at 0.01	0.096	0.485	1.0000
Difference at 0.03	0.081	0.485	1.0000
Difference at 0.1	0.351	0.485	0.9953
Difference at 0.3	0.002	0.485	1.0000
Difference at 1	-0.302	0.485	0.9986
Difference at 3	0.369	0.485	0.9931
Difference at 10	0.216	0.485	0.9999
Difference at 30	0.792	0.485	0.5672
Difference at 100	0.814	0.485	0.5321
Difference at 300	2.024	0.485	0.0003

Fig. 50



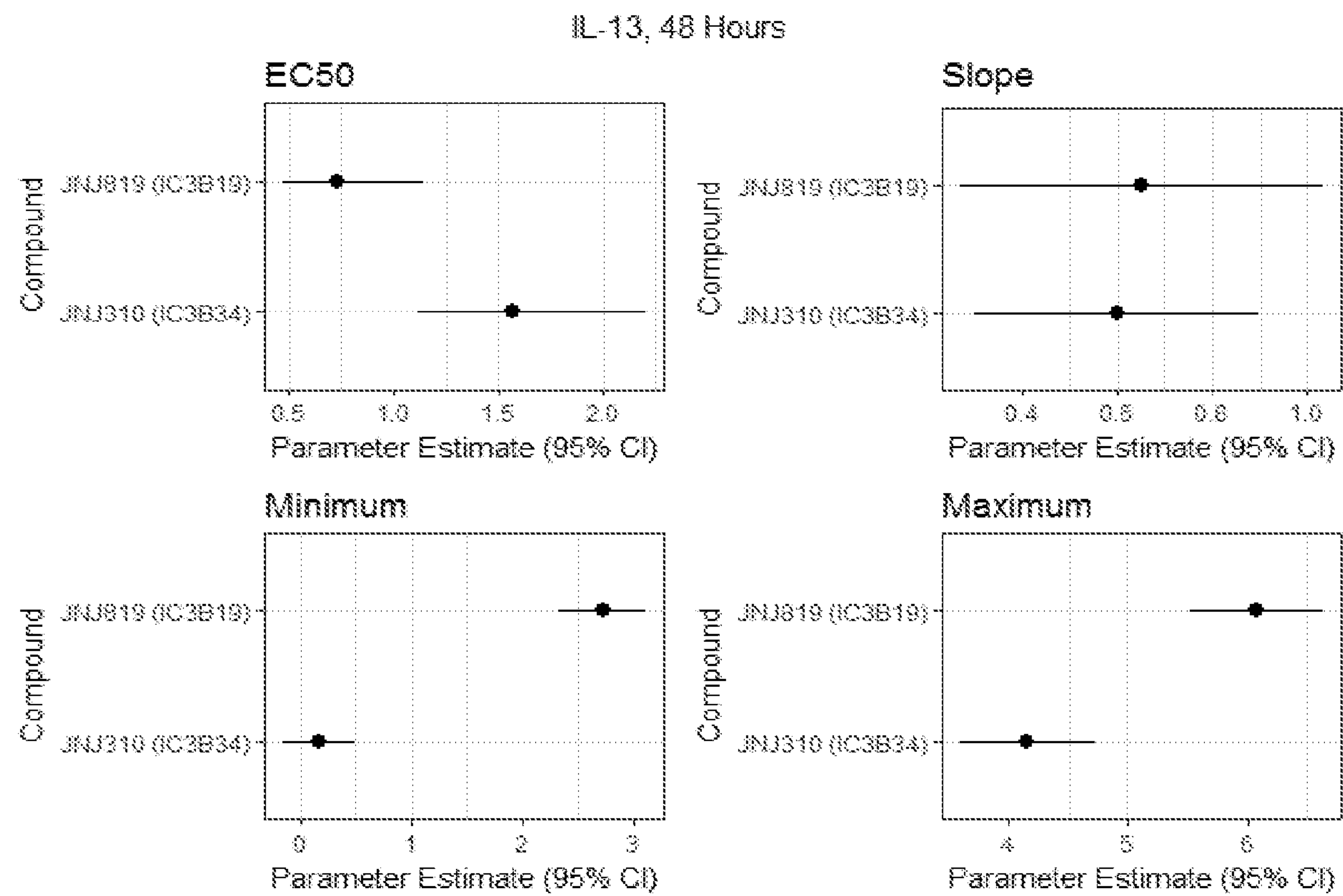
	Difference	Sigma	p-value
Difference at 0.01	-0.140	0.503	1.0000
Difference at 0.03	0.108	0.503	1.0000
Difference at 0.1	-0.022	0.503	1.0000
Difference at 0.3	0.324	0.503	0.9988
Difference at 1	-0.822	0.503	0.6083
Difference at 3	0.623	0.503	0.8814
Difference at 10	-0.059	0.503	1.0000
Difference at 30	-0.022	0.503	1.0000
Difference at 100	0.178	0.503	1.0000
Difference at 300	0.718	0.503	0.7659

Fig. 52A



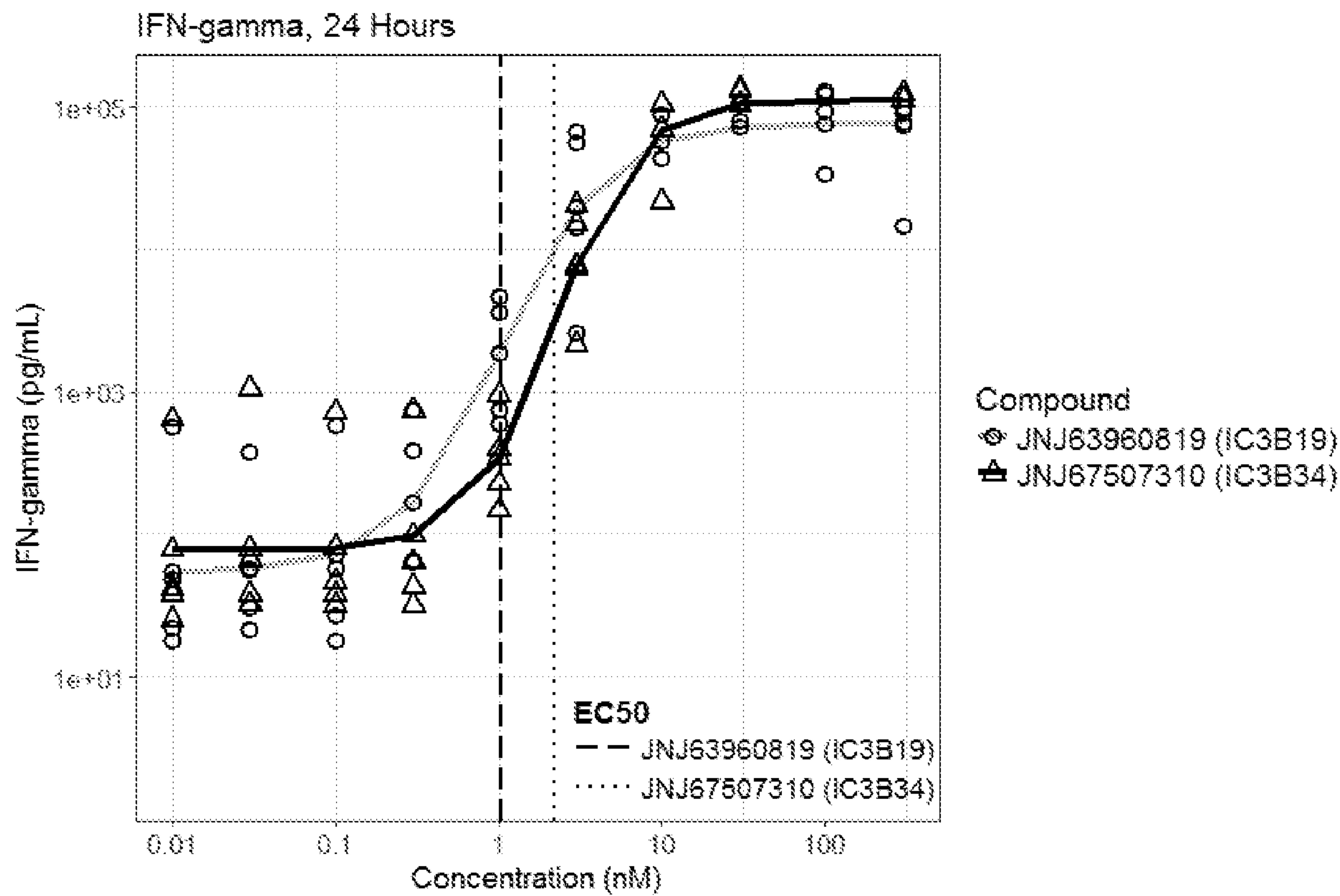
	Difference	Sigma	p-value
Difference at 0.01	-2.735	0.49	<0.0001
Difference at 0.03	-2.489	0.49	<0.0001
Difference at 0.1	-2.726	0.49	<0.0001
Difference at 0.3	-2.846	0.49	<0.0001
Difference at 1	-3.337	0.49	<0.0001
Difference at 3	-2.707	0.49	<0.0001
Difference at 10	-2.132	0.49	1e-04
Difference at 30	-2.005	0.49	4e-04
Difference at 100	-1.869	0.49	0.0014
Difference at 300	-1.753	0.49	0.0034

Fig. 52B



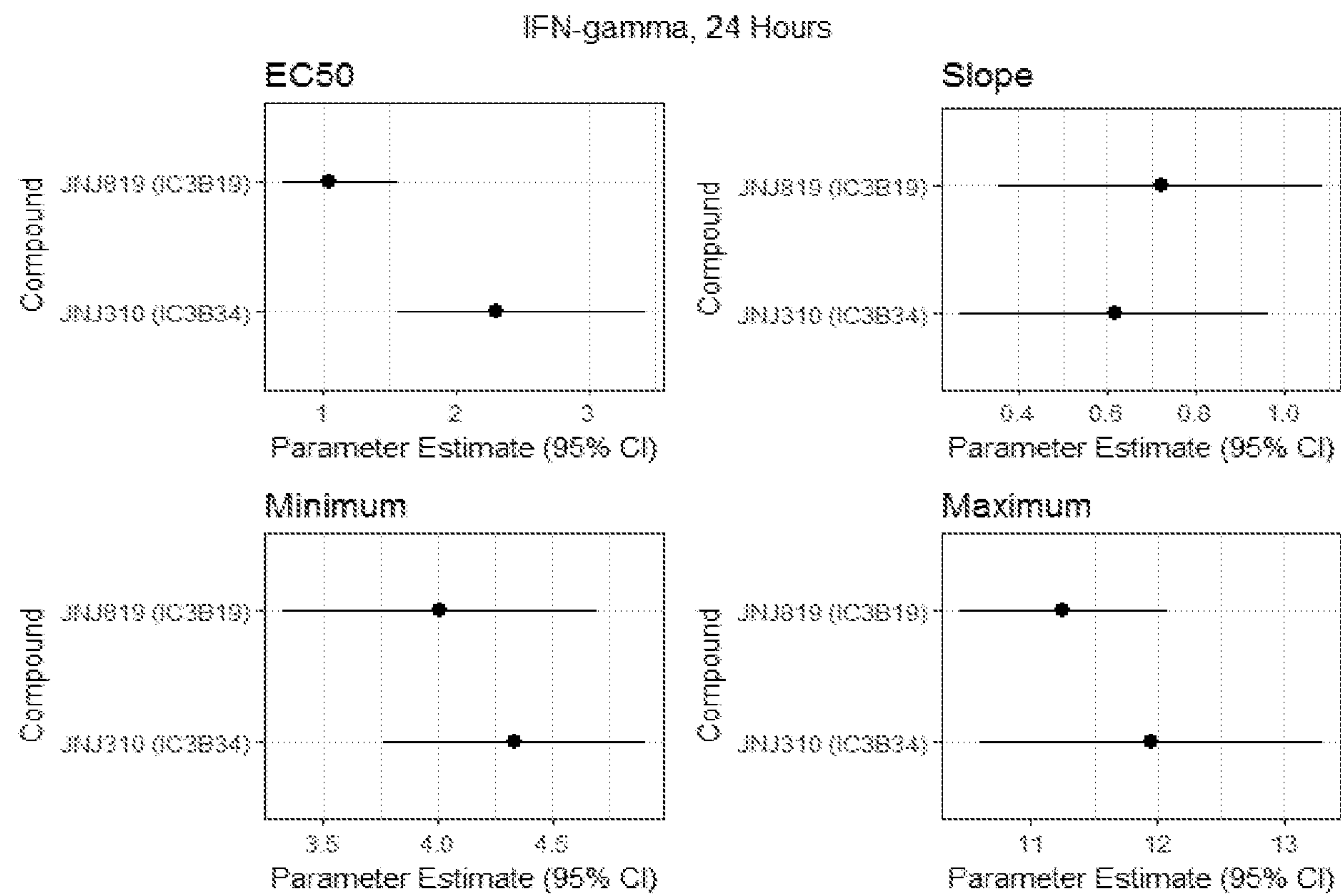
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.731 (0.467, 1.143)	1.564 (1.111, 2.202)	0.0106
Slope	0.651 (0.270, 1.033)	0.599 (0.300, 0.899)	0.8268
Minimum	2.729 (2.341, 3.118)	0.162 (-0.165, 0.490)	<0.0001
Maximum	6.077 (5.523, 6.630)	4.155 (3.590, 4.721)	<0.0001

Fig. 53A



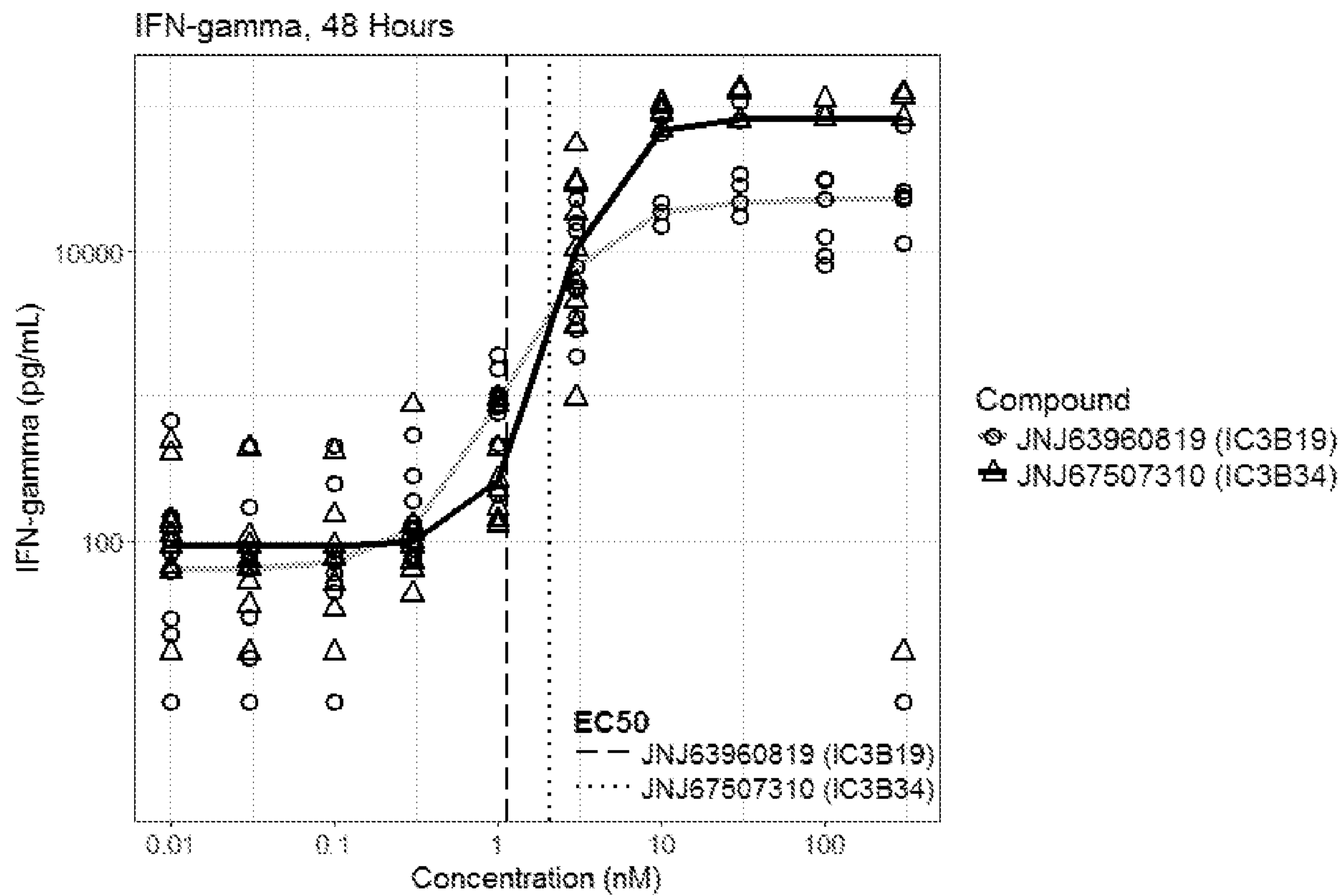
	Difference	Sigma	p-value
Difference at 0.01	0.220	0.927	1.0000
Difference at 0.03	0.448	0.927	0.9991
Difference at 0.1	0.225	0.927	1.0000
Difference at 0.3	-0.735	0.927	0.9718
Difference at 1	-1.596	0.927	0.4007
Difference at 3	-0.836	0.927	0.9413
Difference at 10	-0.060	1.123	1.0000
Difference at 30	0.538	1.123	0.9992
Difference at 300	1.510	1.206	0.7439

Fig. 53B



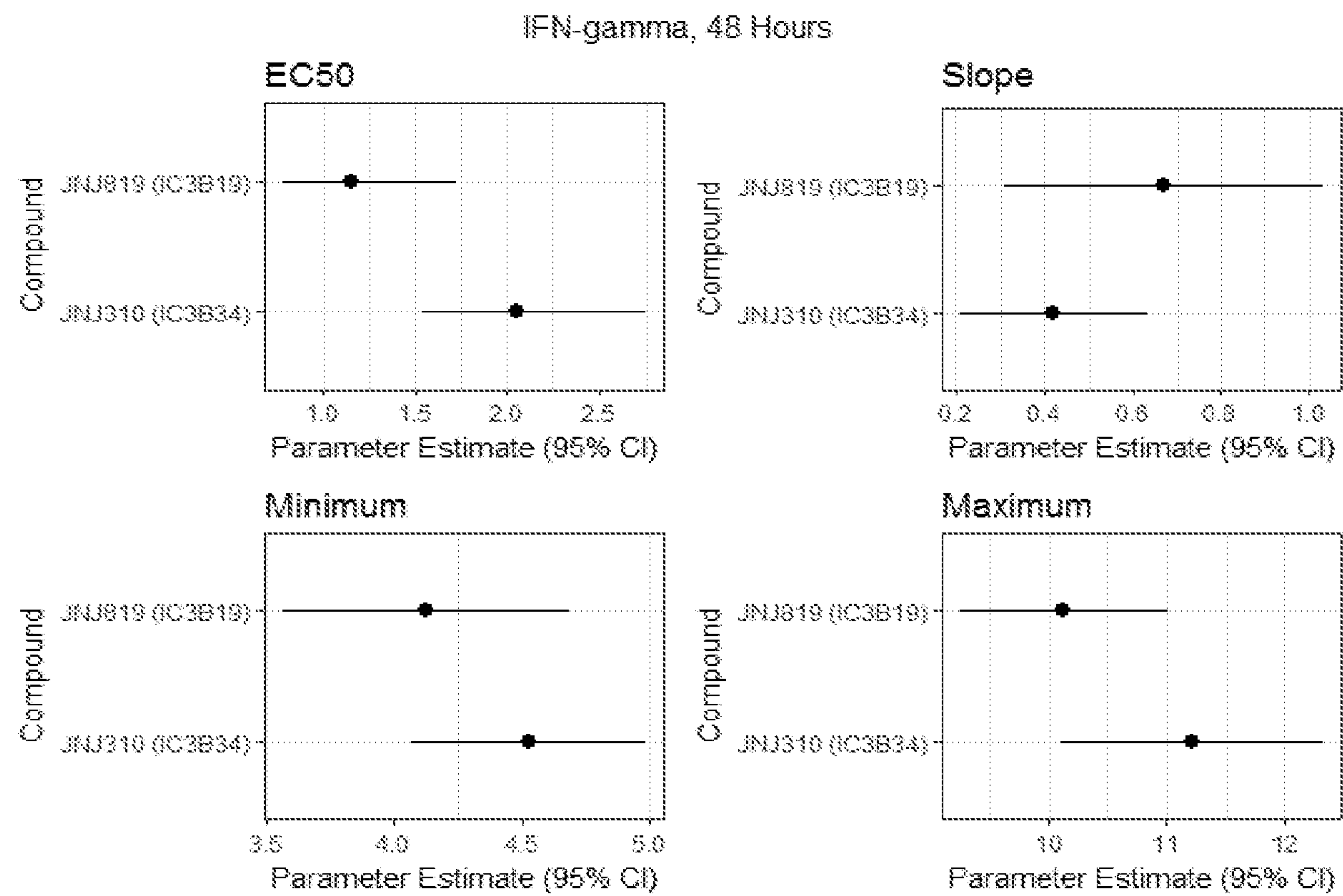
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	1.037 (0.693, 1.553)	2.304 (1.552, 3.420)	0.0065
Slope	0.722 (0.358, 1.087)	0.617 (0.268, 0.966)	0.6920
Minimum	4.007 (3.317, 4.697)	4.335 (3.760, 4.909)	0.4644
Maximum	11.258 (10.434, 12.083)	11.952 (10.597, 13.307)	0.3179

Fig. 54A



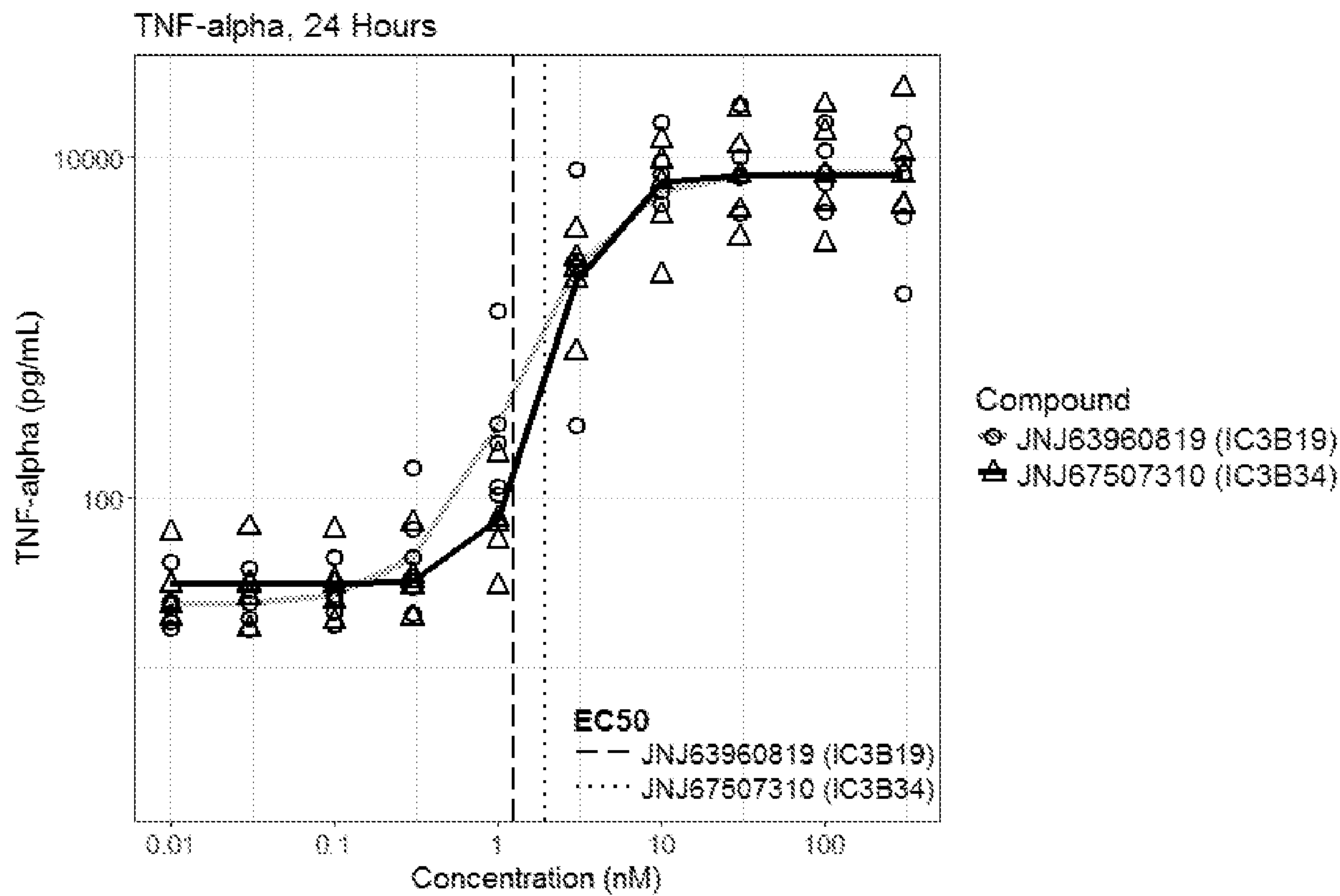
	Difference	Sigma	p-value
Difference at 0.01	0.576	0.699	0.9926
Difference at 0.03	0.406	0.699	0.9996
Difference at 0.1	0.034	0.699	1.0000
Difference at 0.3	-0.329	0.699	0.9999
Difference at 1	-1.084	0.699	0.6880
Difference at 3	0.401	0.699	0.9996
Difference at 10	1.056	0.869	0.9007
Difference at 30	0.804	0.942	0.9903
Difference at 100	1.253	1.389	0.9854
Difference at 300	-0.082	0.922	1.0000

Fig. 54B



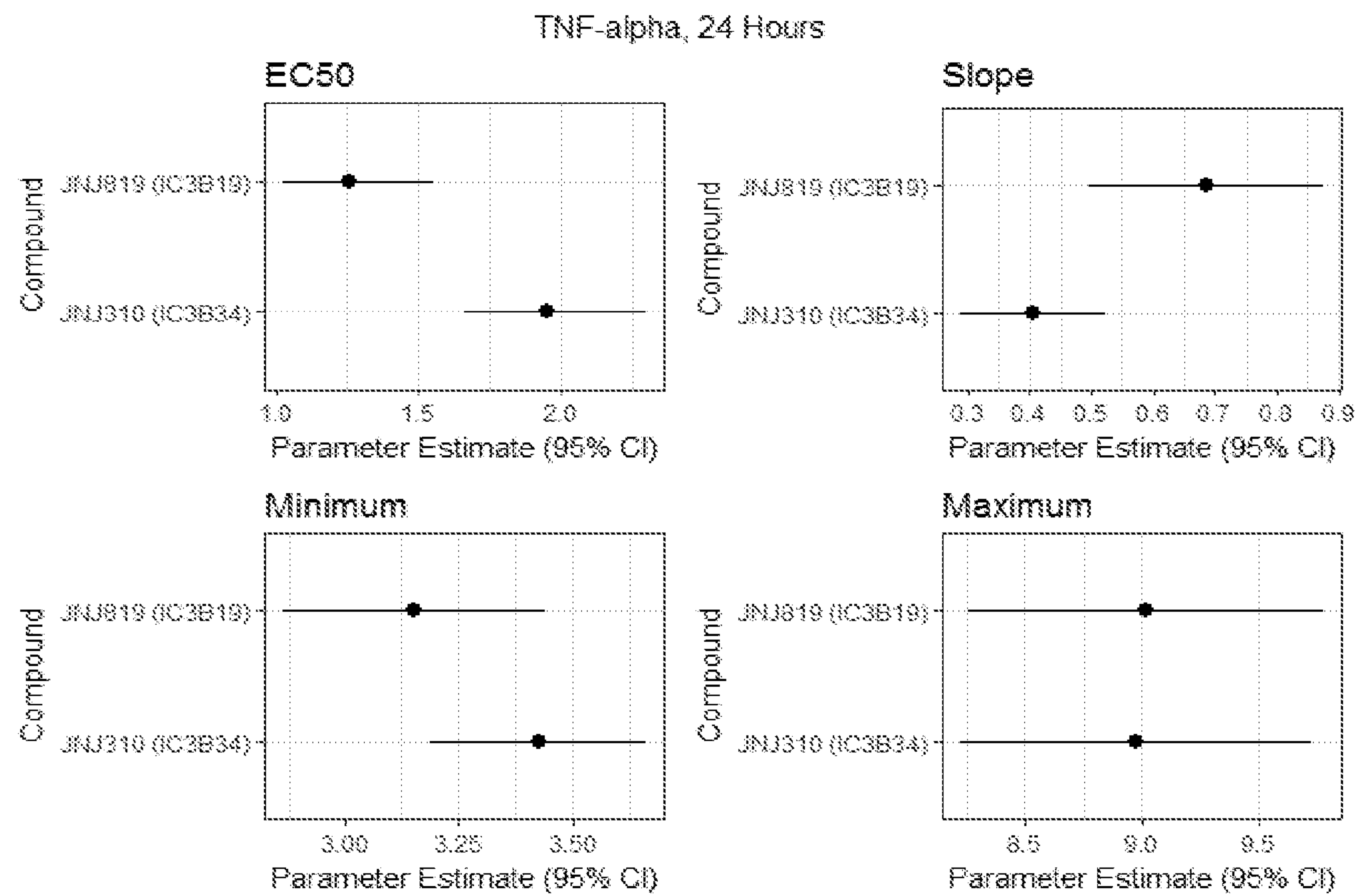
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	1.159 (0.779, 1.726)	2.056 (1.535, 2.753)	0.0266
Slope	0.671 (0.310, 1.031)	0.420 (0.208, 0.633)	0.1678
Minimum	4.123 (3.559, 4.687)	4.527 (4.067, 4.988)	0.2695
Maximum	10.118 (9.235, 11.001)	11.218 (10.102, 12.335)	0.0319

Fig. 55A



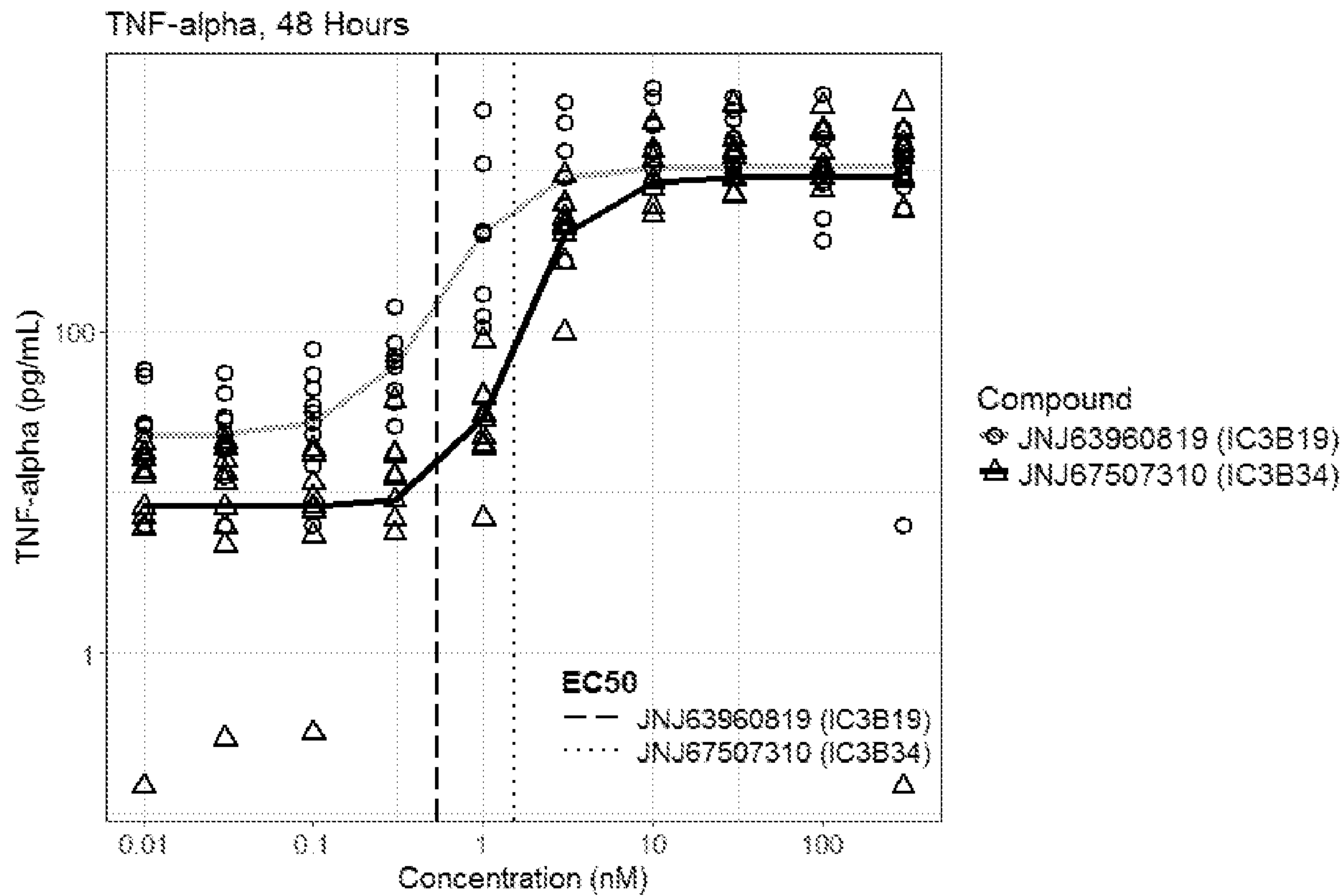
	Difference	Sigma	p-value
Difference at 0.01	0.242	0.53	0.9997
Difference at 0.03	0.233	0.53	0.9998
Difference at 0.1	0.203	0.53	0.9999
Difference at 0.3	-0.362	0.53	0.9918
Difference at 1	-1.258	0.53	0.1120
Difference at 3	0.035	0.53	1.0000
Difference at 10	-0.446	0.53	0.9660
Difference at 30	-0.175	0.53	1.0000
Difference at 100	-0.058	0.53	1.0000
Difference at 300	0.521	0.53	0.9172

Fig. 55B



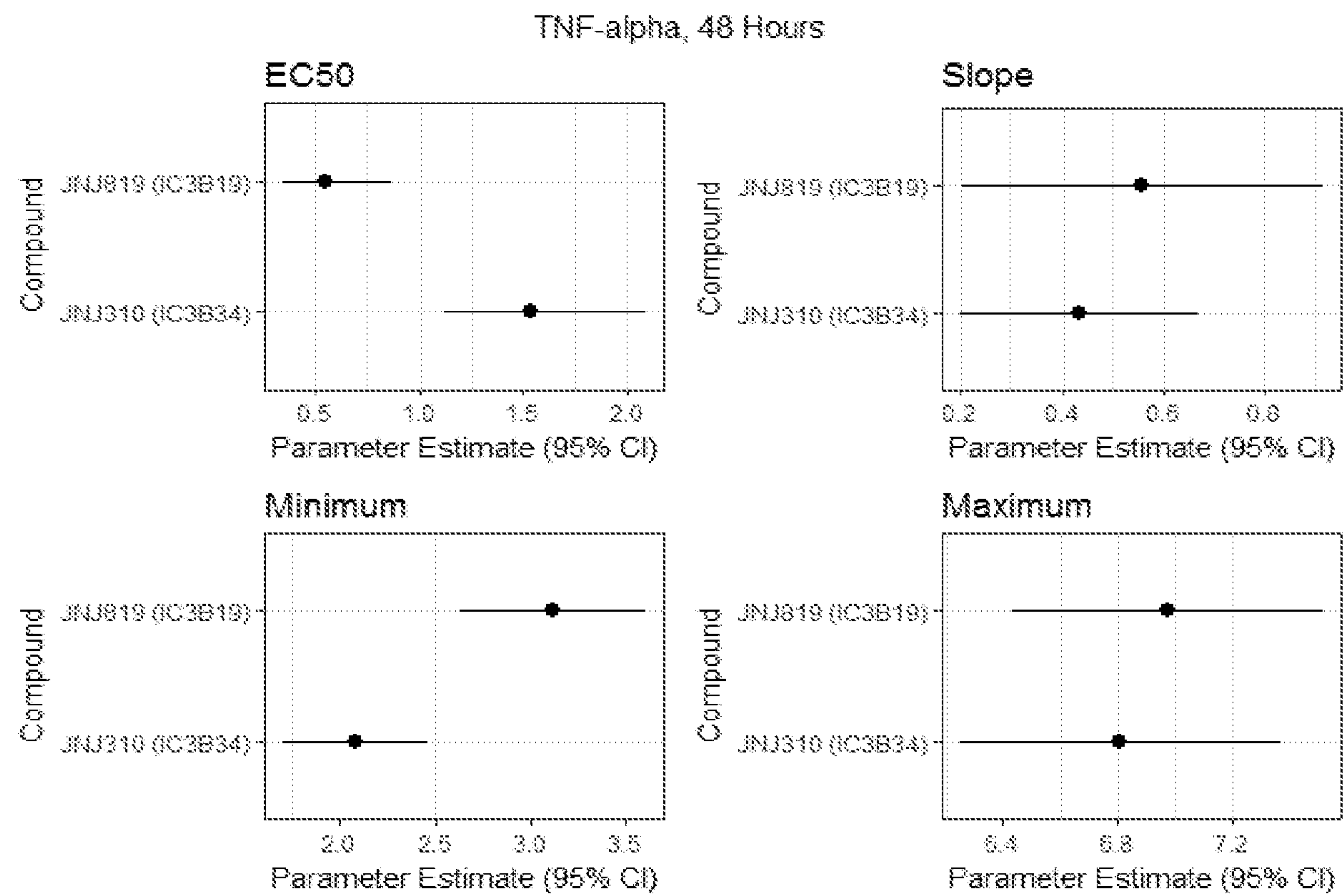
	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	1.260 (1.022, 1.555)	1.952 (1.658, 2.298)	0.0016
Slope	0.686 (0.495, 0.876)	0.405 (0.287, 0.523)	0.0128
Minimum	3.151 (2.860, 3.441)	3.425 (3.187, 3.663)	0.1443
Maximum	9.019 (8.263, 9.775)	8.973 (8.226, 9.720)	0.7895

Fig. 56A



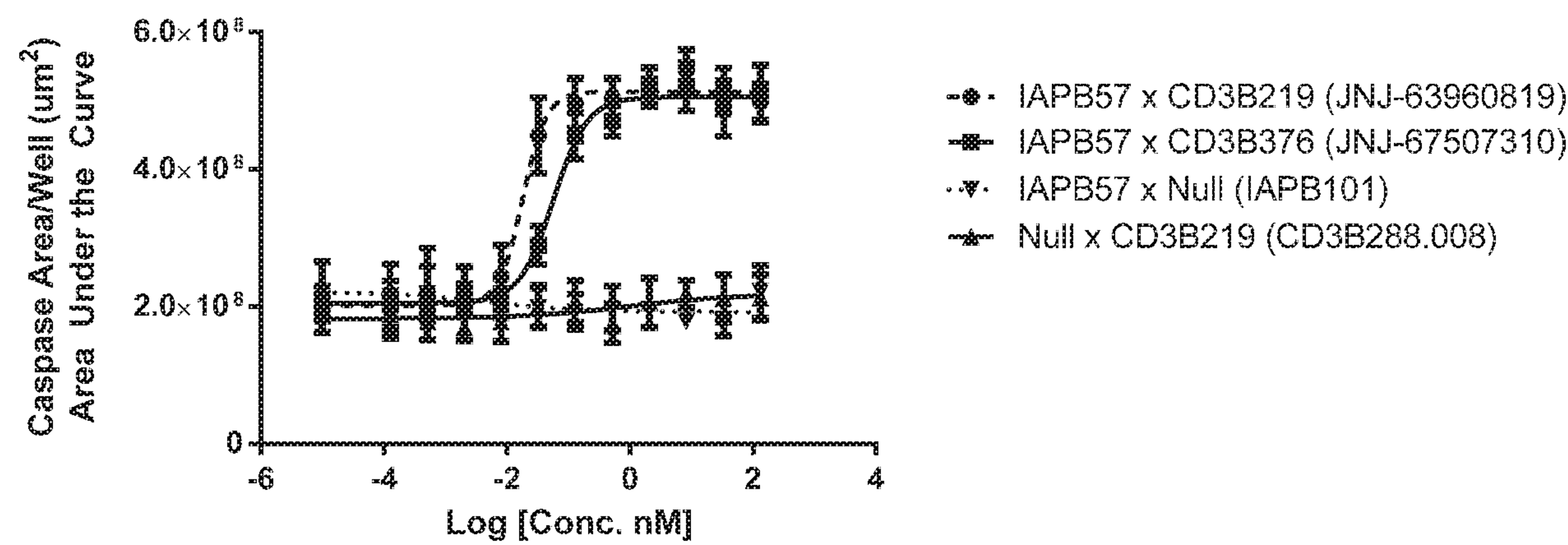
	Difference	Sigma	p-value
Difference at 0.01	-1.21	0.579	0.2840
Difference at 0.03	-1.099	0.579	0.4088
Difference at 0.1	-1.365	0.579	0.1560
Difference at 0.3	-1.471	0.579	0.0982
Difference at 1	-2.66	0.579	<0.0001
Difference at 3	-0.718	0.579	0.8826
Difference at 10	-0.497	0.579	0.9889
Difference at 30	-0.245	0.579	1.0000
Difference at 100	0.243	0.579	1.0000
Difference at 300	-0.33	0.579	0.9996

Fig. 56B



	JNJ819 (IC3B19)	JNJ310 (IC3B34)	p-value
EC50	0.546 (0.344, 0.866)	1.530 (1.122, 2.087)	0.0004
Slope	0.558 (0.202, 0.915)	0.433 (0.197, 0.668)	0.5553
Minimum	3.116 (2.628, 3.604)	2.083 (1.699, 2.467)	0.0043
Maximum	6.973 (6.431, 7.515)	6.807 (6.248, 7.365)	0.5216

Fig. 57



	IL1RAP Affinity (nM)	Cytotox EC ₅₀ (nM)
JNJ-63960819	0.04	0.018
JNJ-67507310	0.02	0.057

Fig. 58

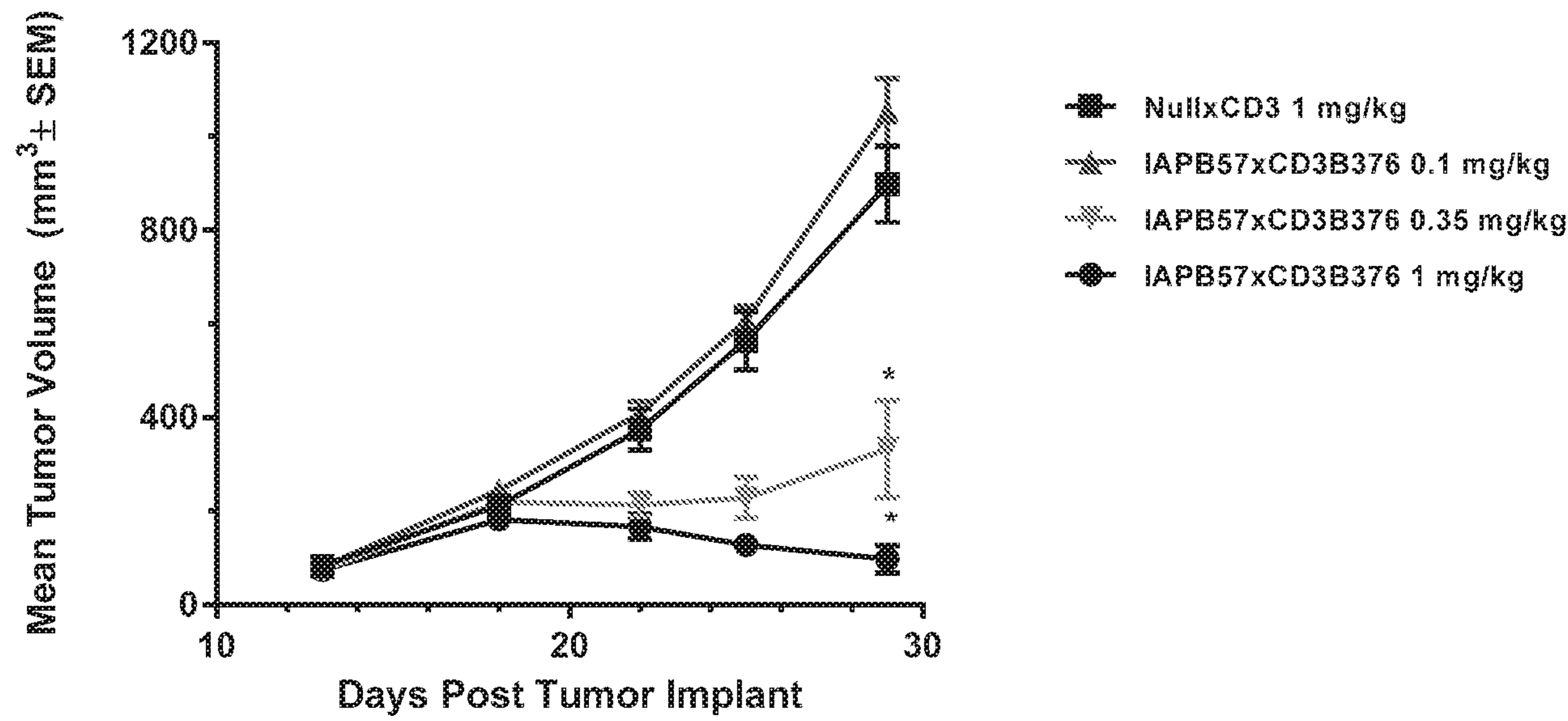


Fig. 59

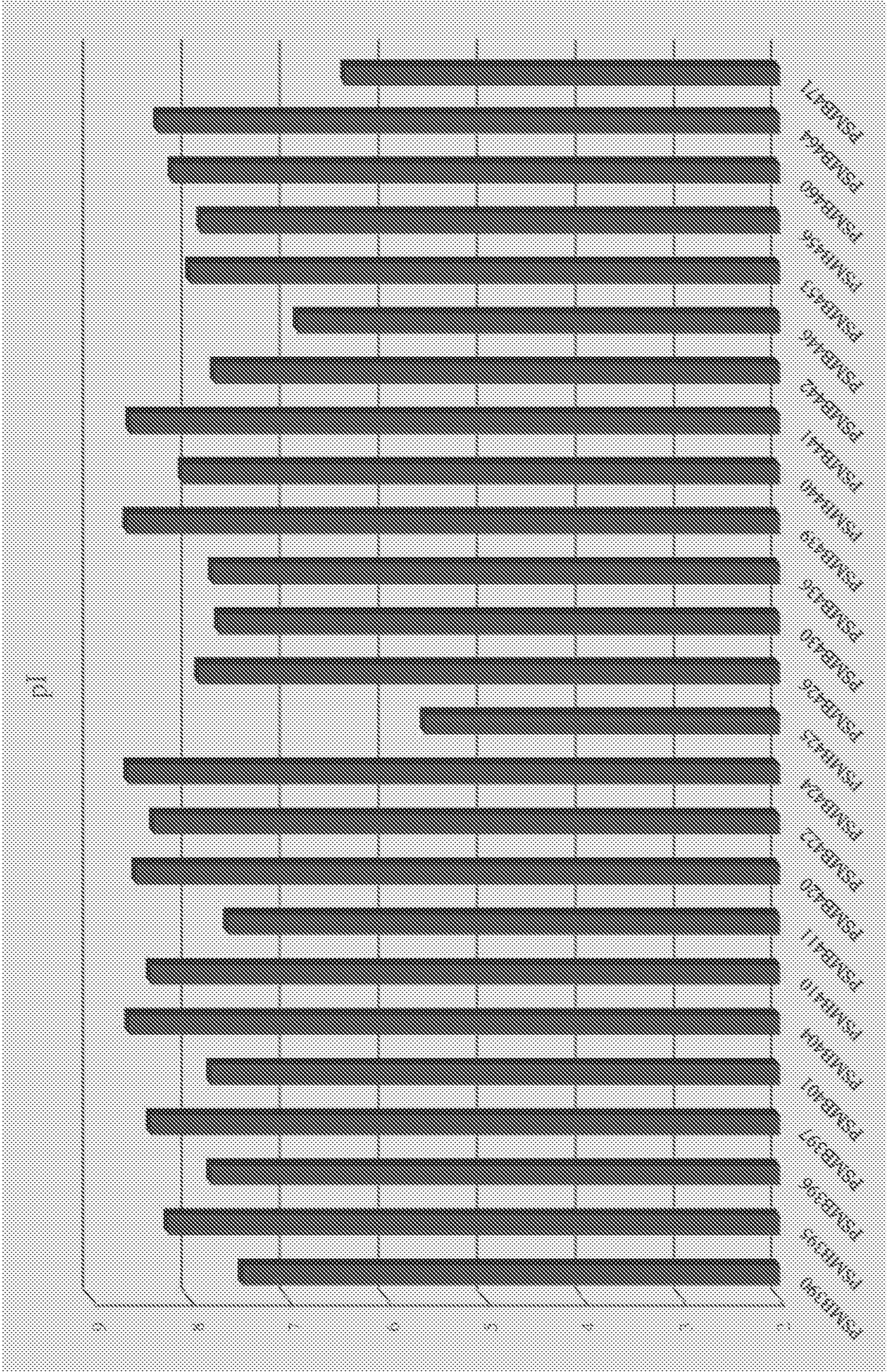
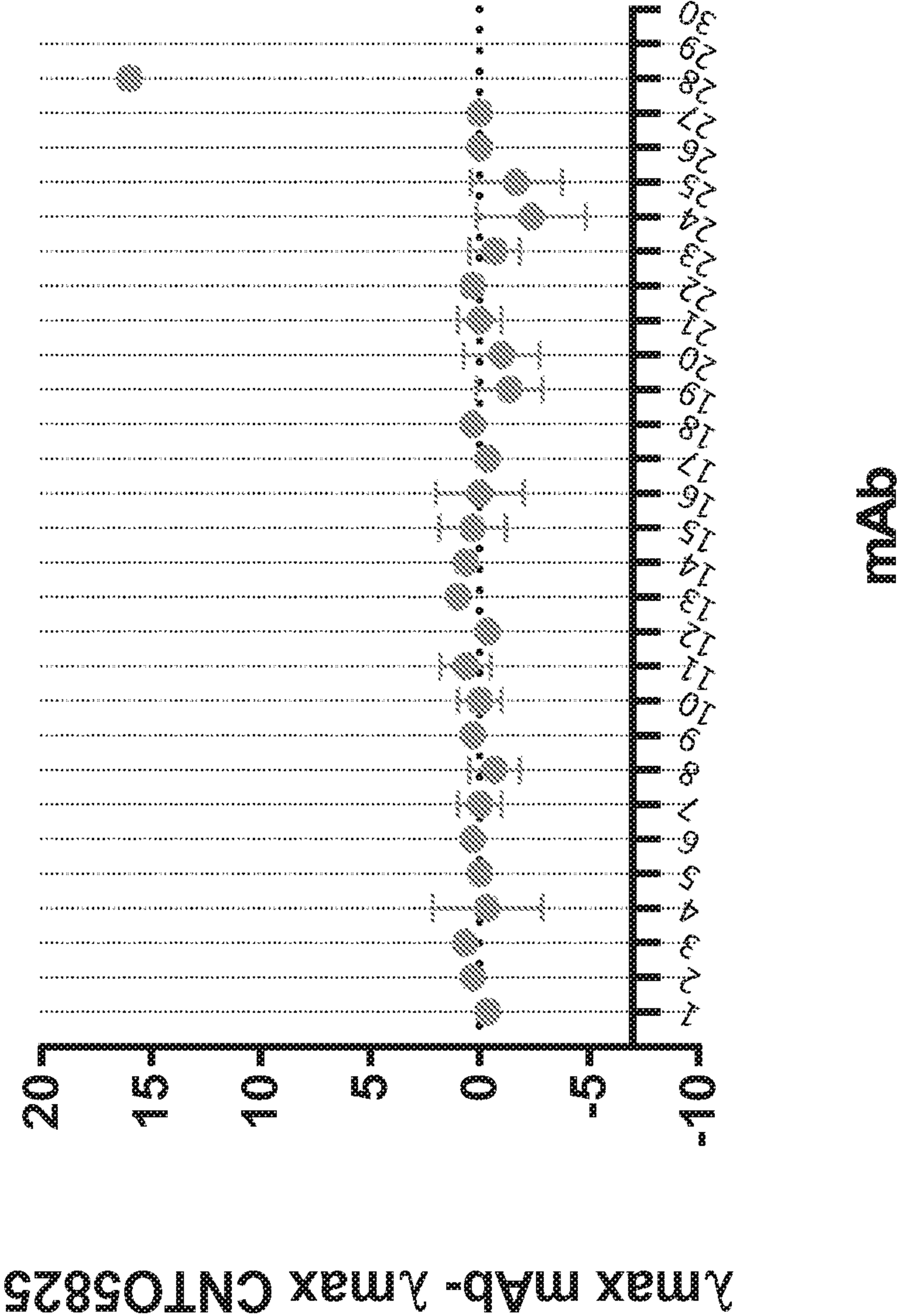


Fig. 60

Self-association propensity of PSMA mAbs
(against CNT05825)



1934

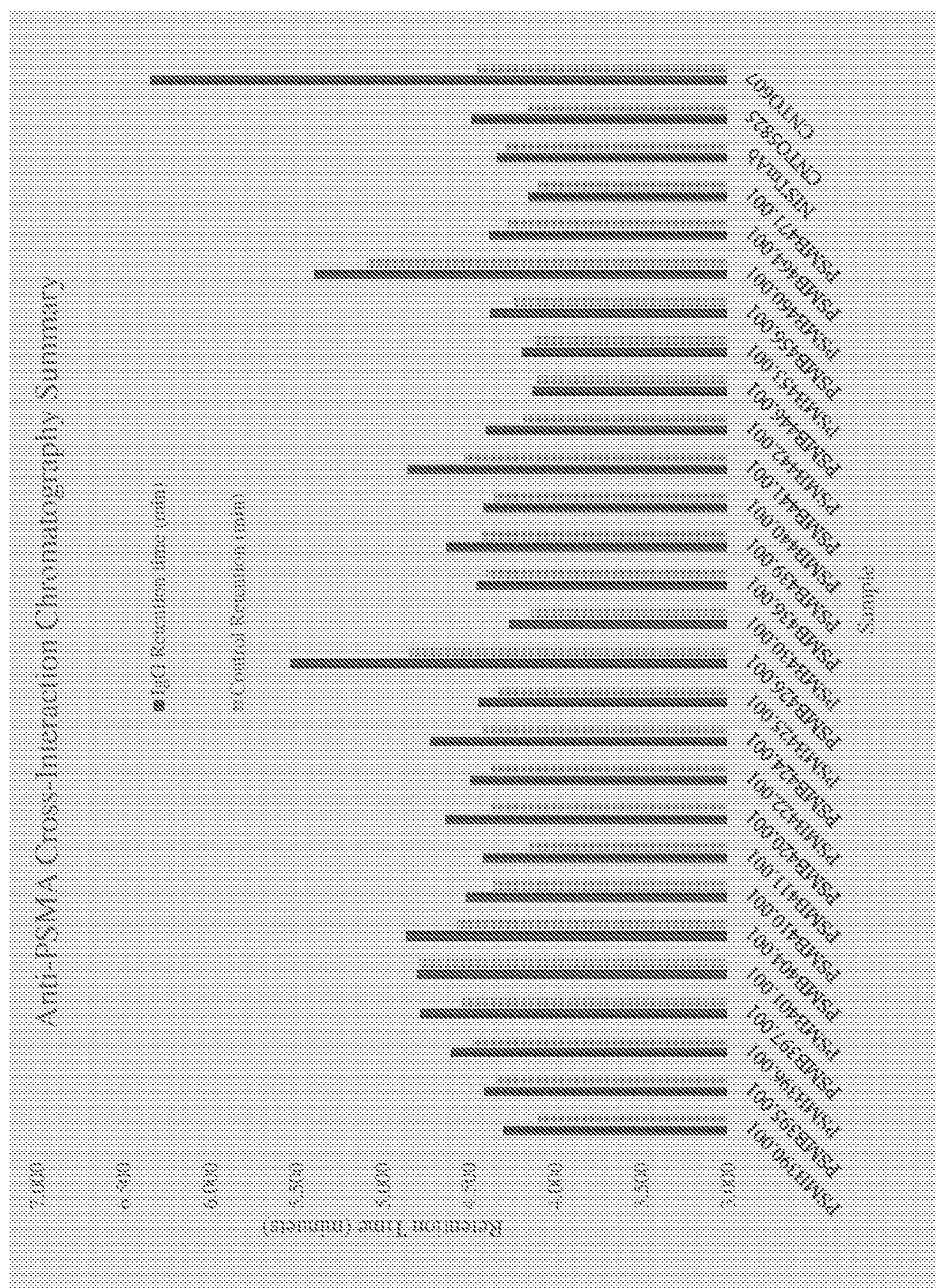


Fig. 62

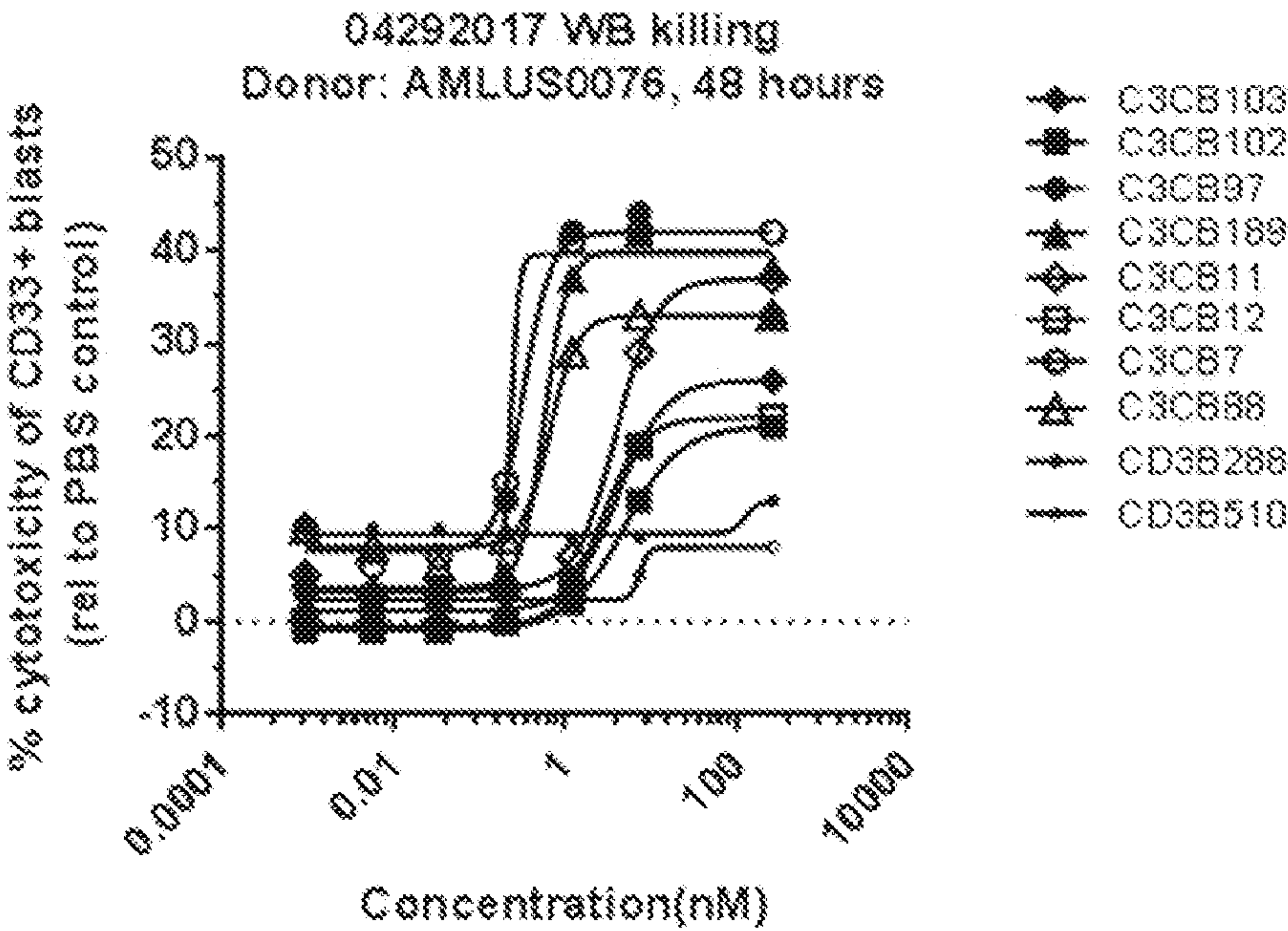


FIG. 62A

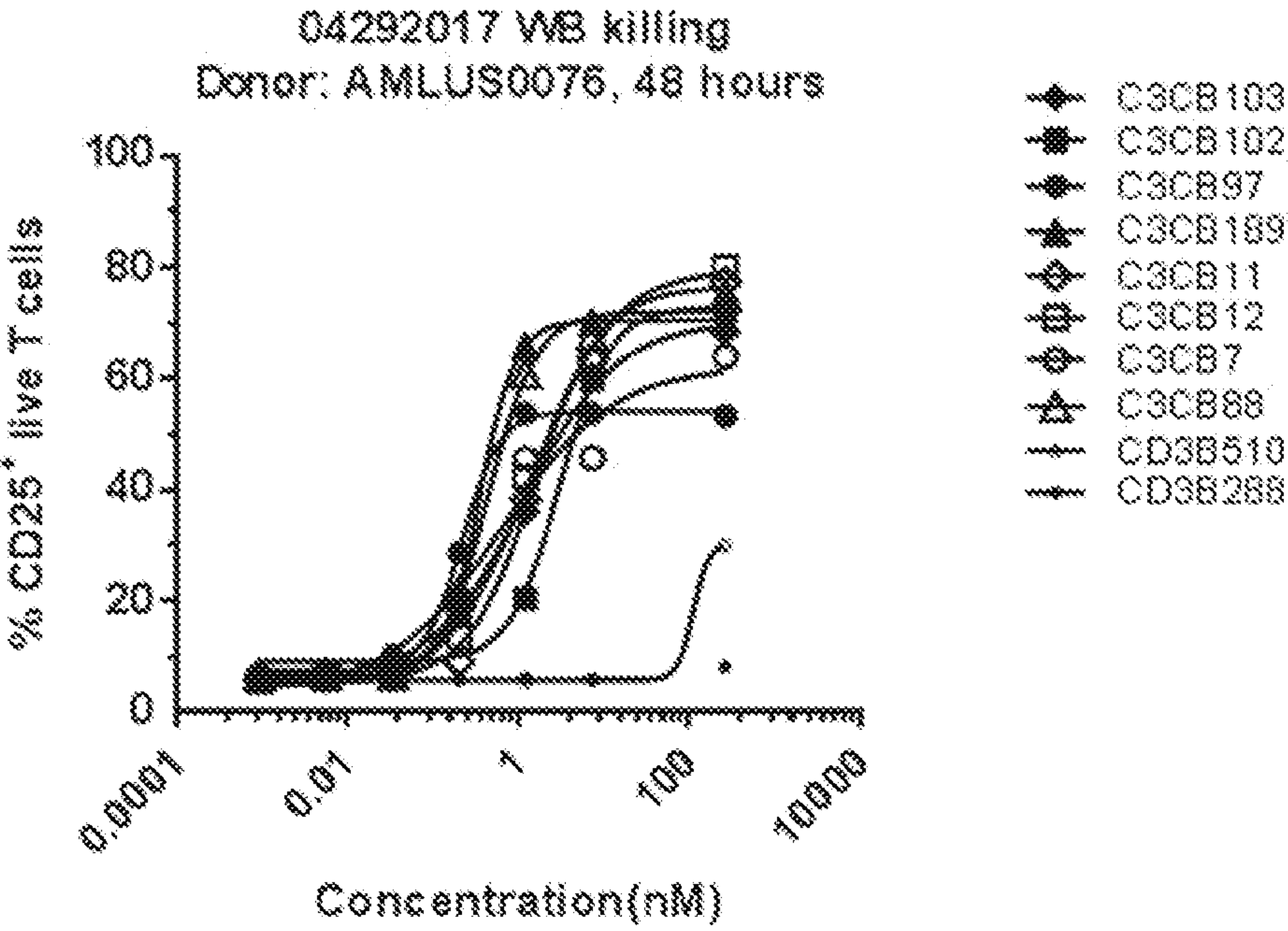


FIG. 62B

Fig. 63

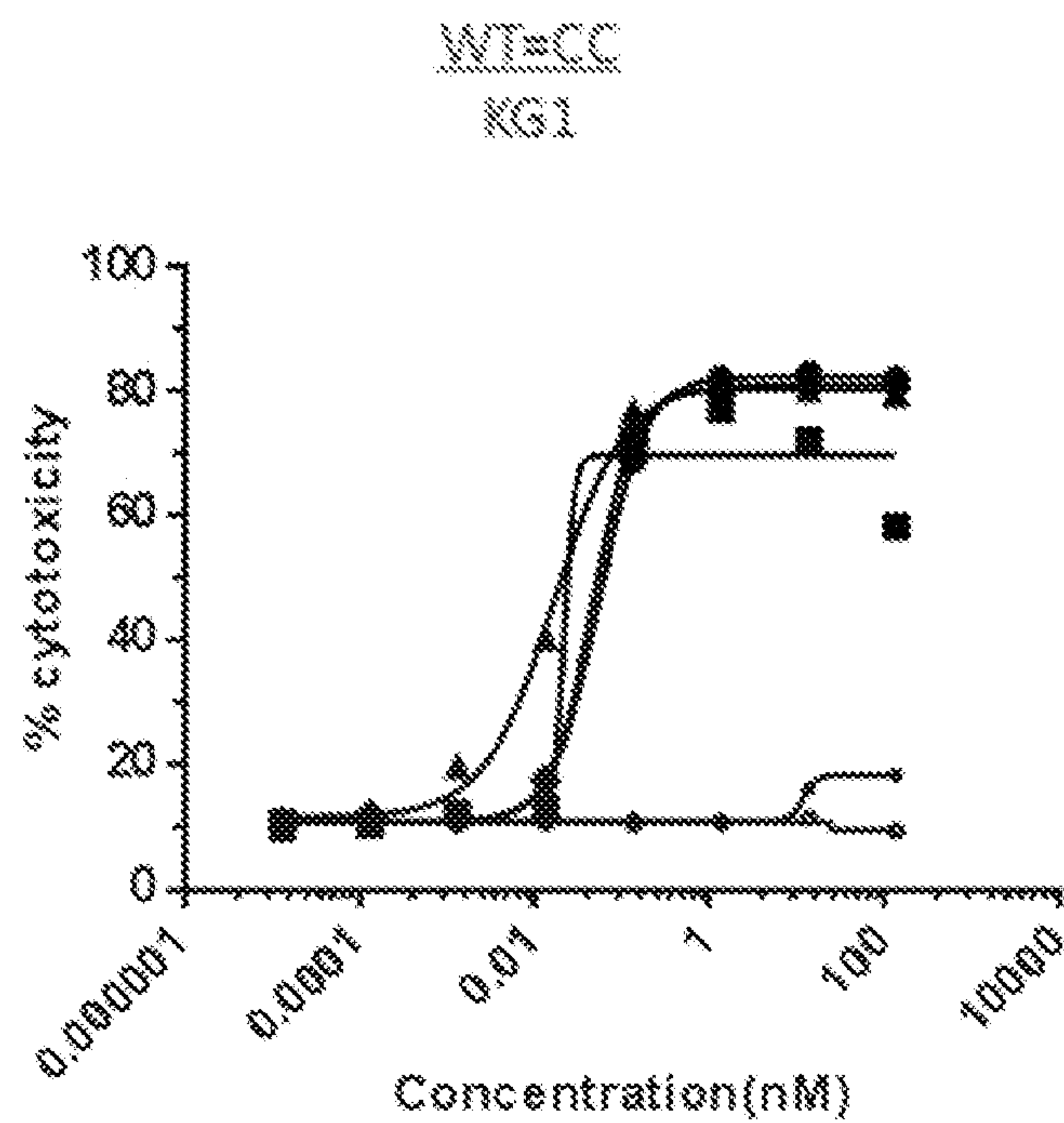


FIG. 63A

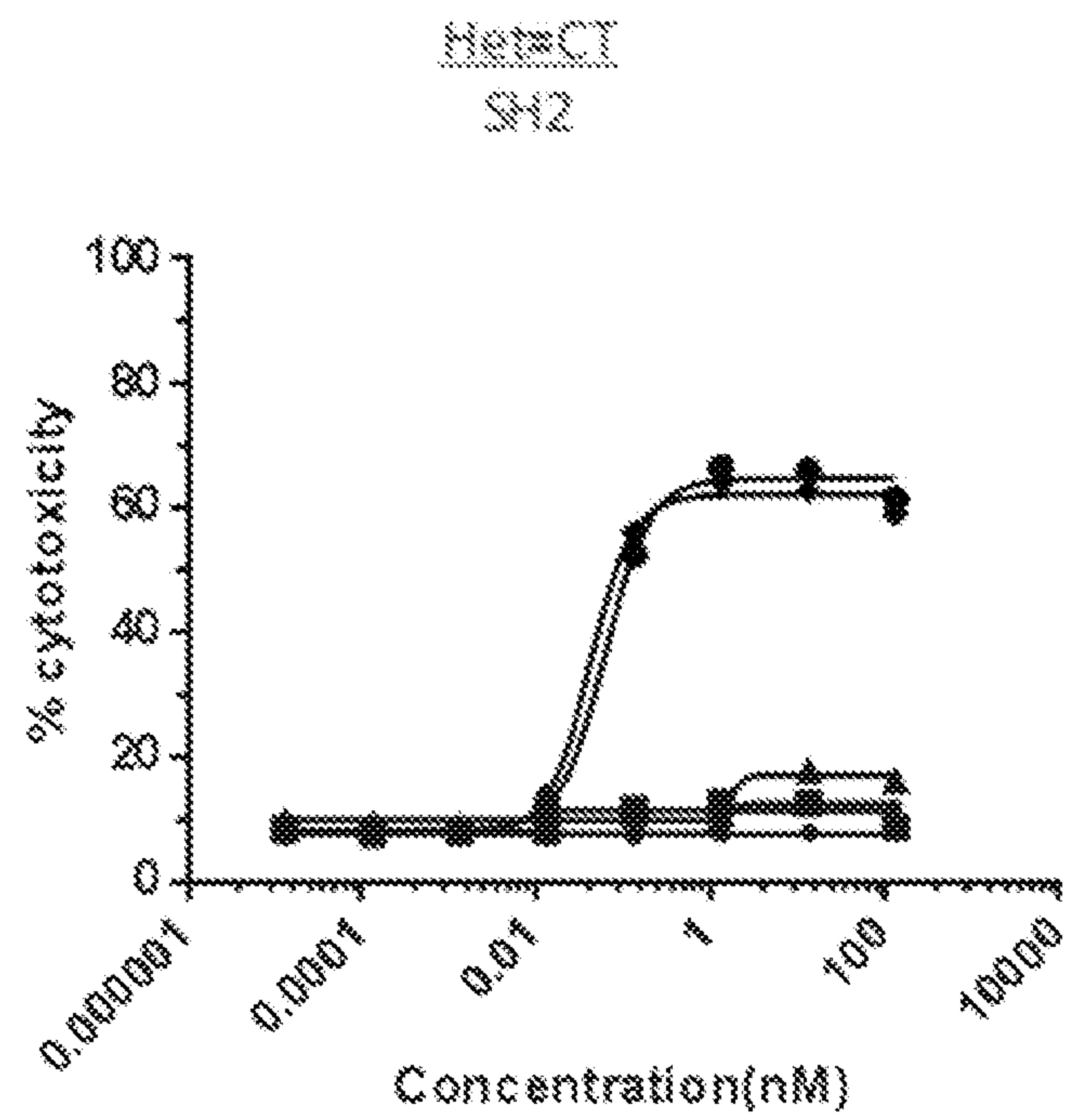


FIG. 63B

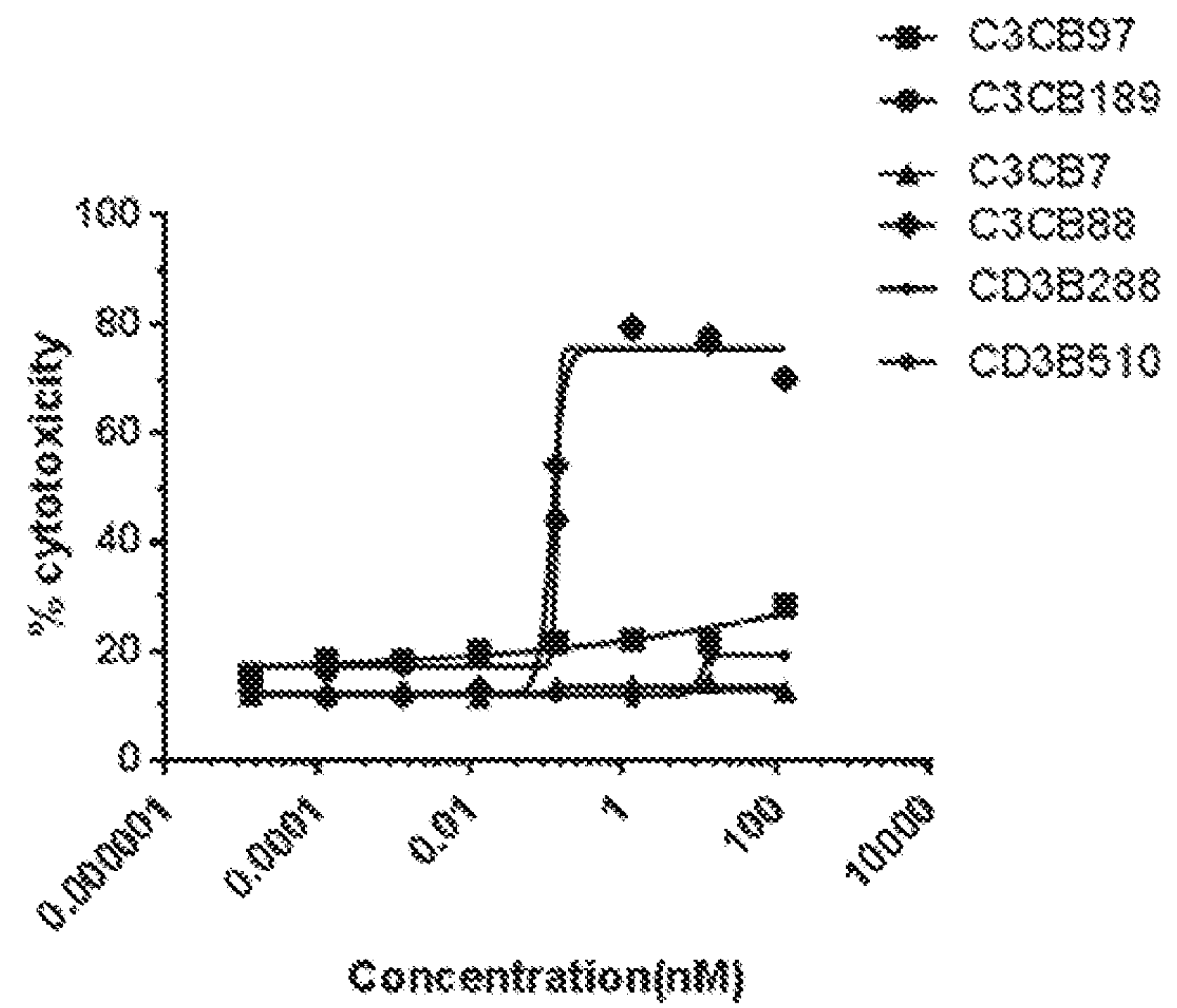


FIG. 63C

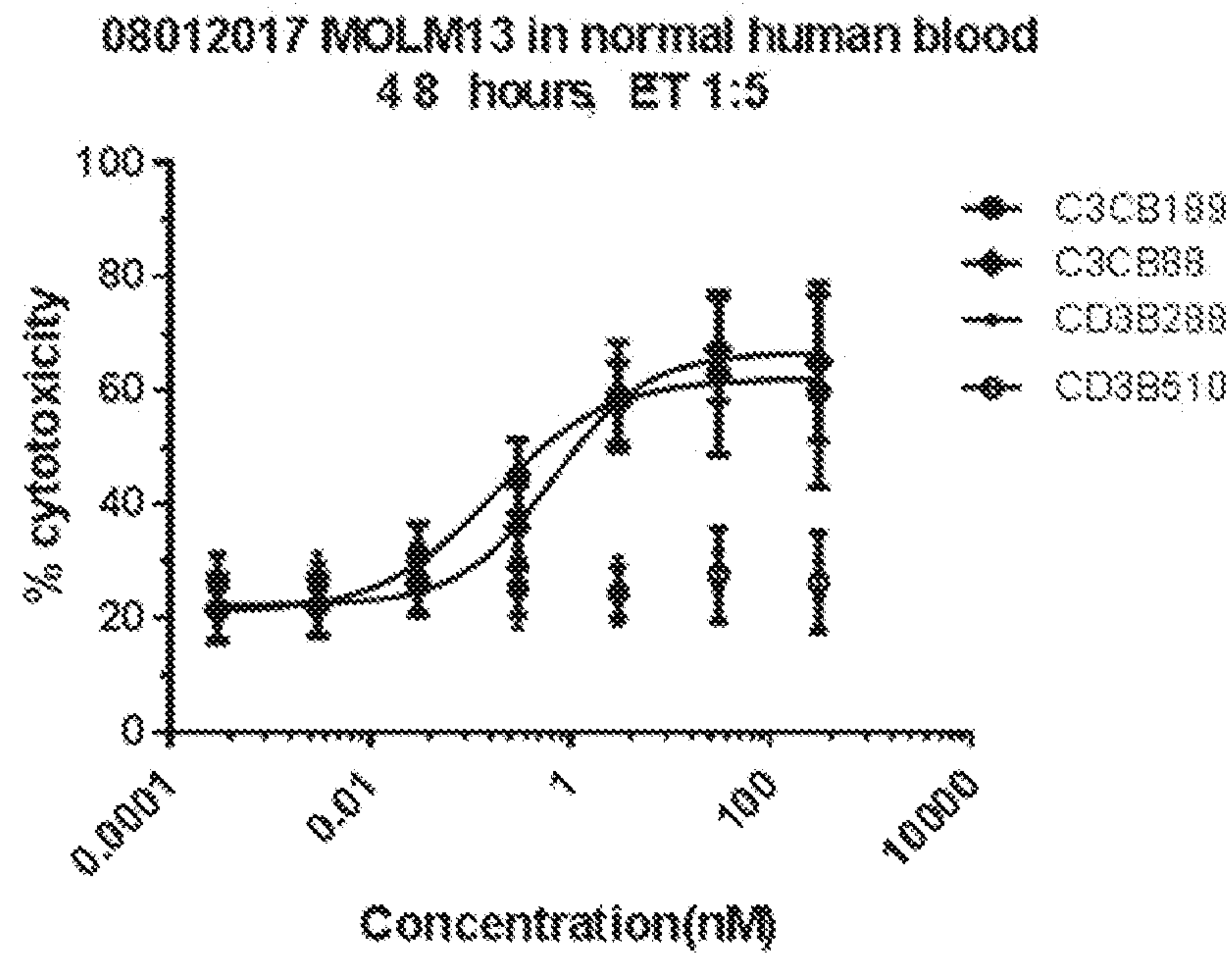


FIG. 64A

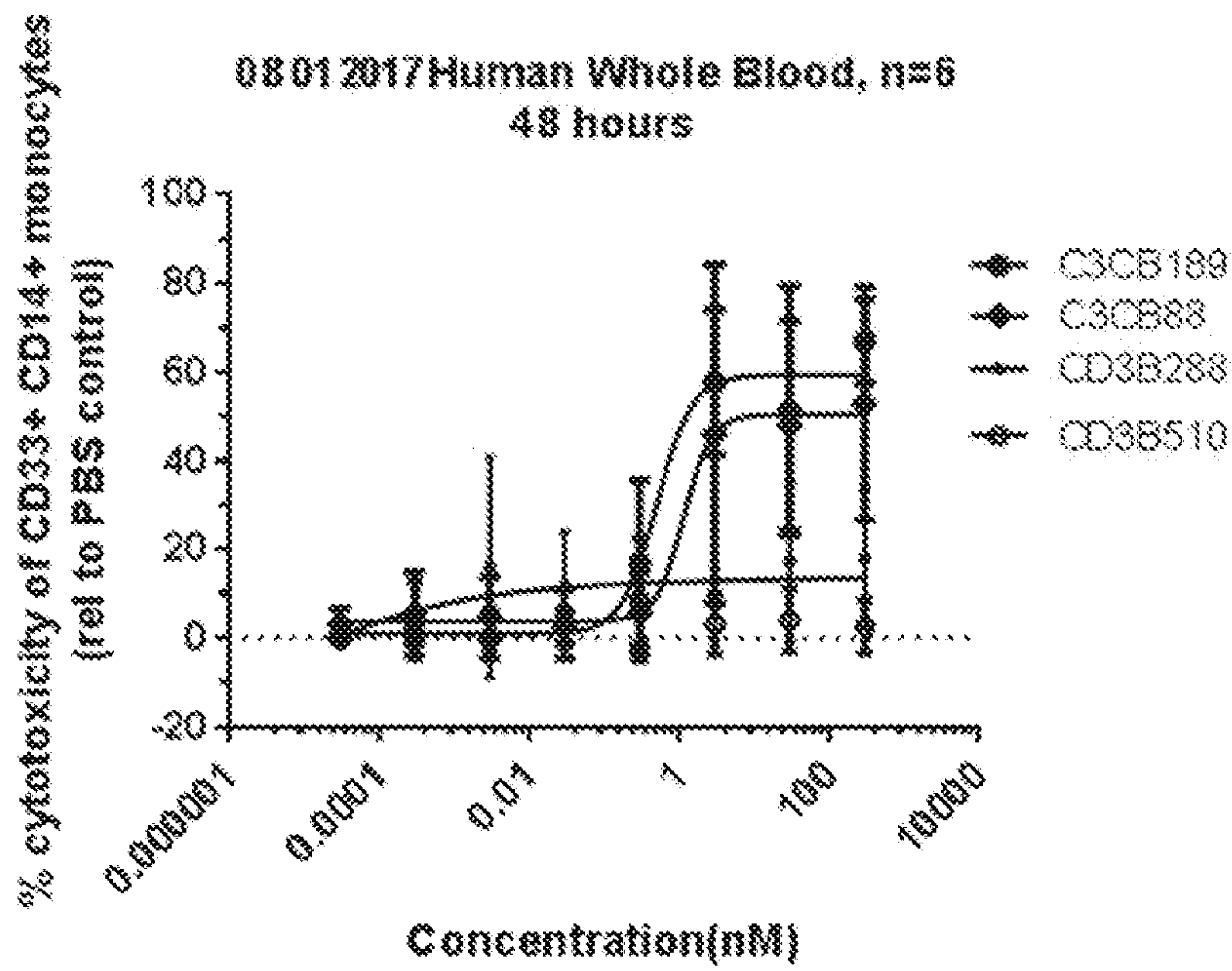


FIG. 64B

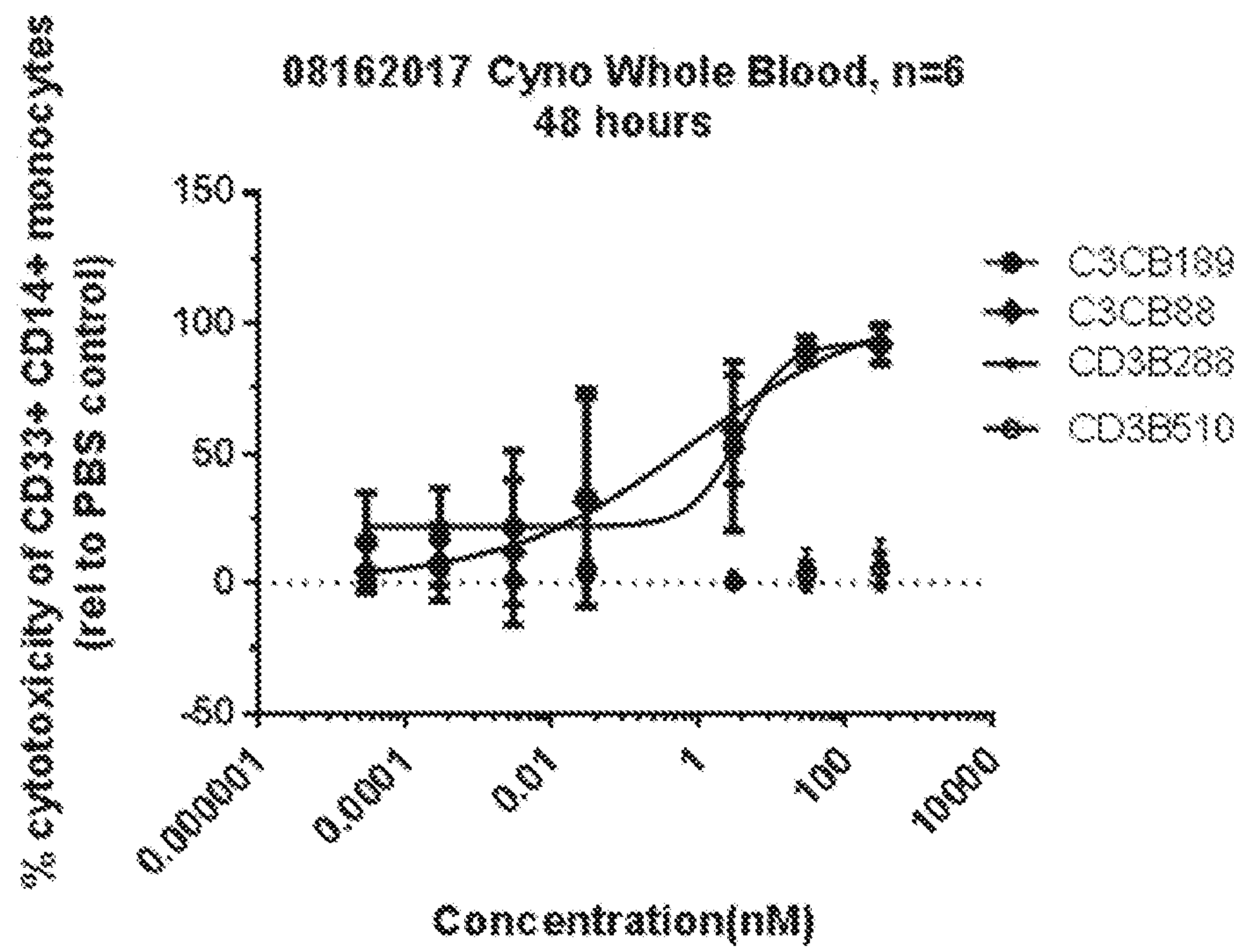


FIG. 65A

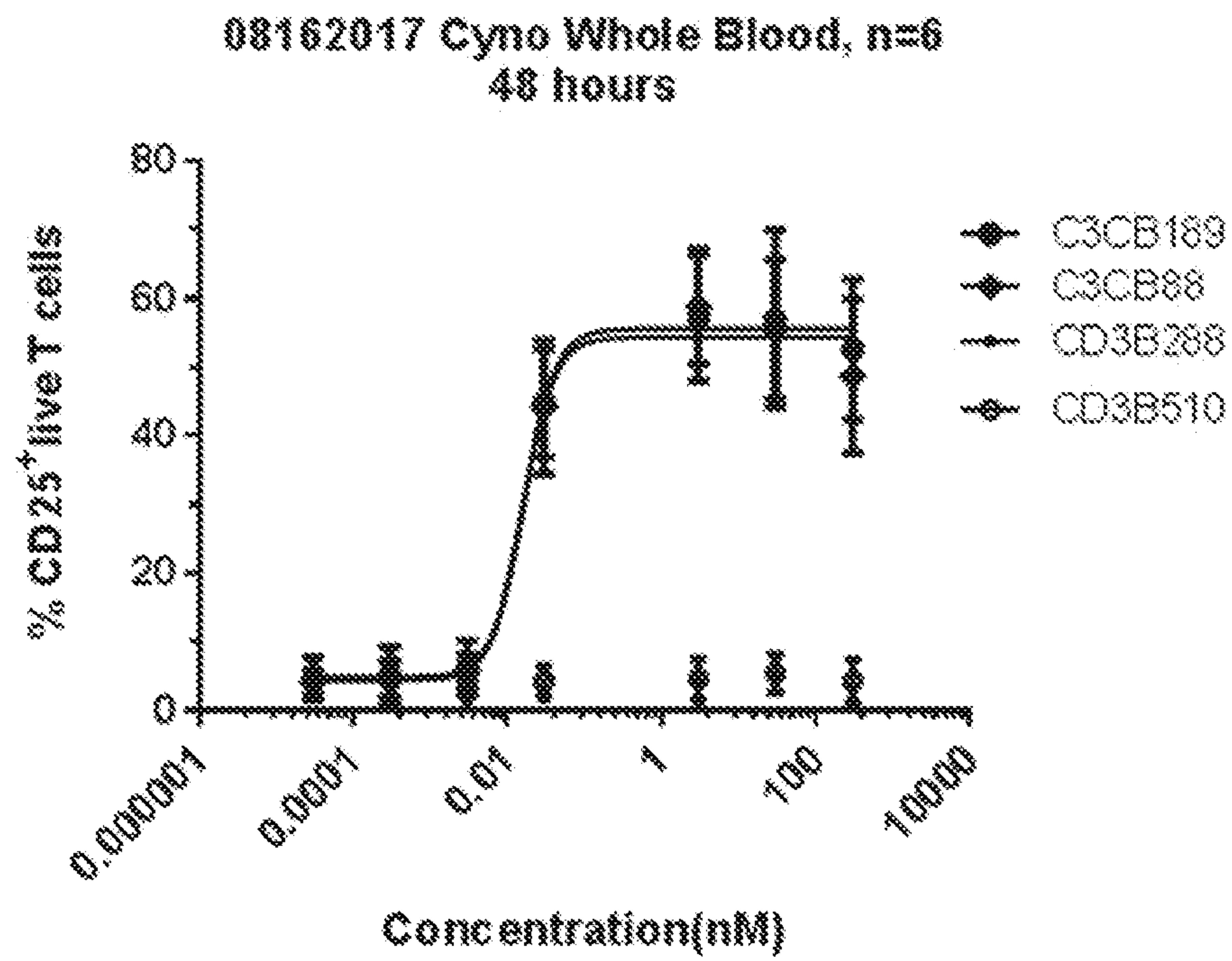


FIG. 65B

Fig. 66

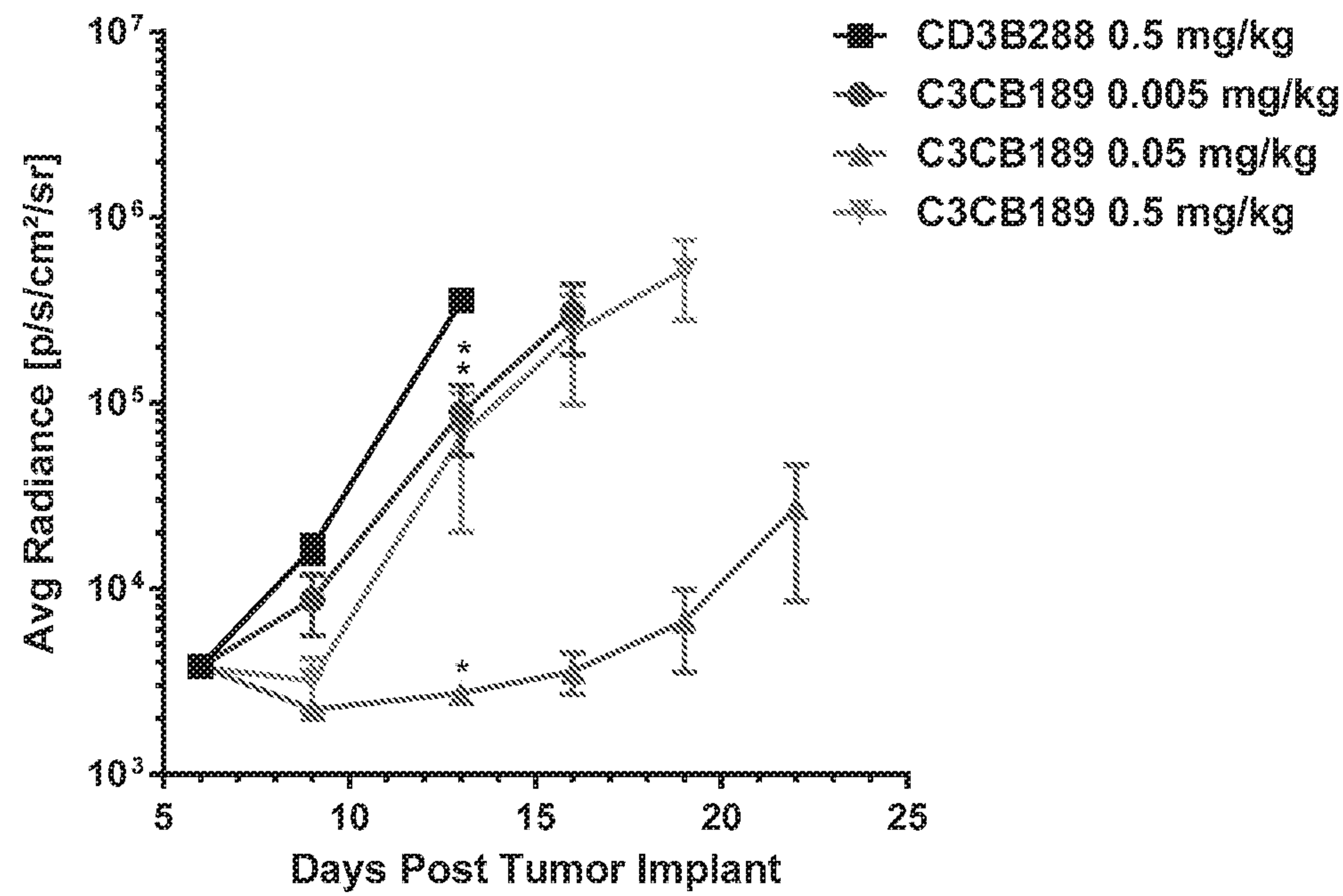


Fig. 67

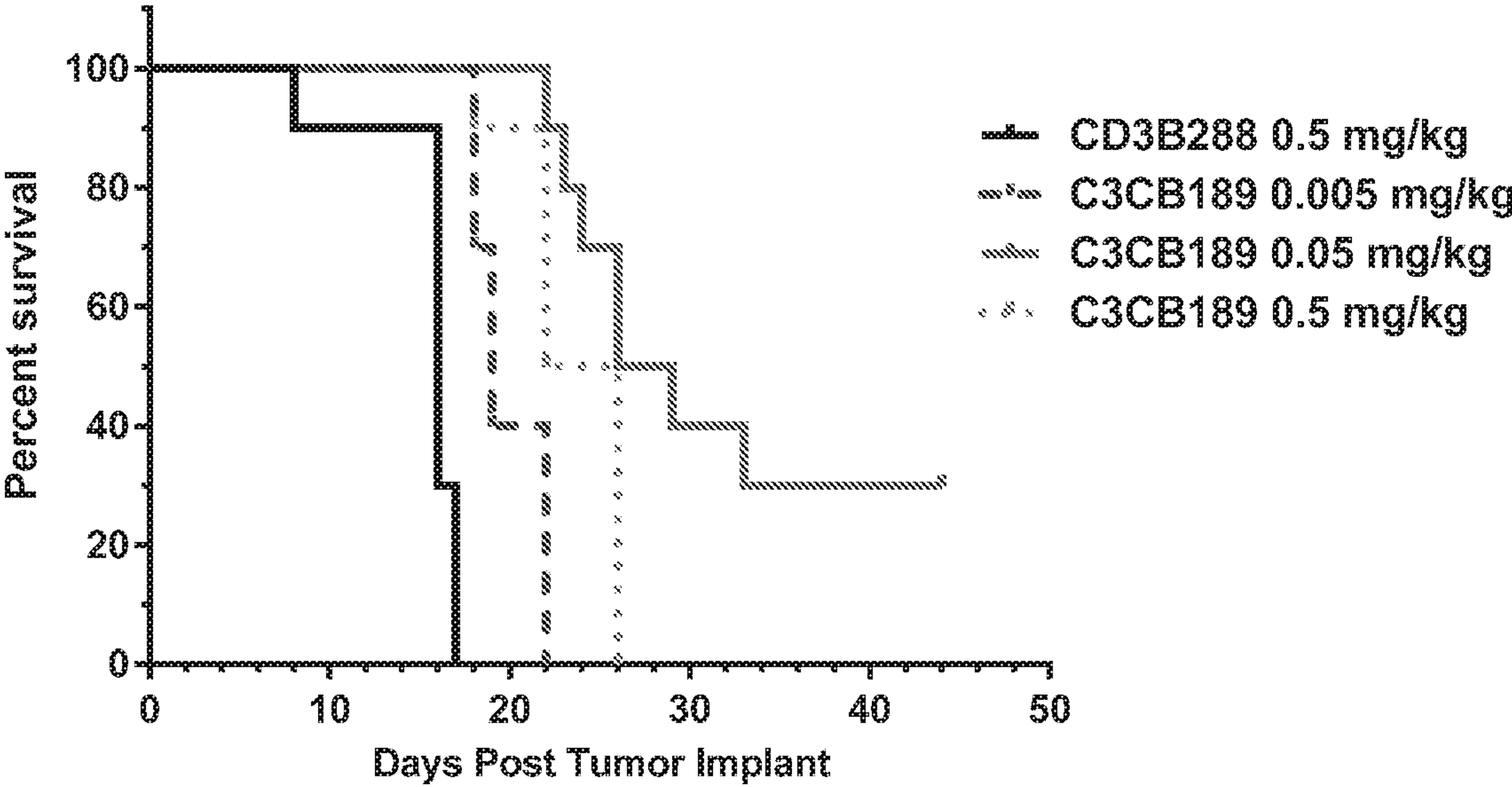


Fig. 68

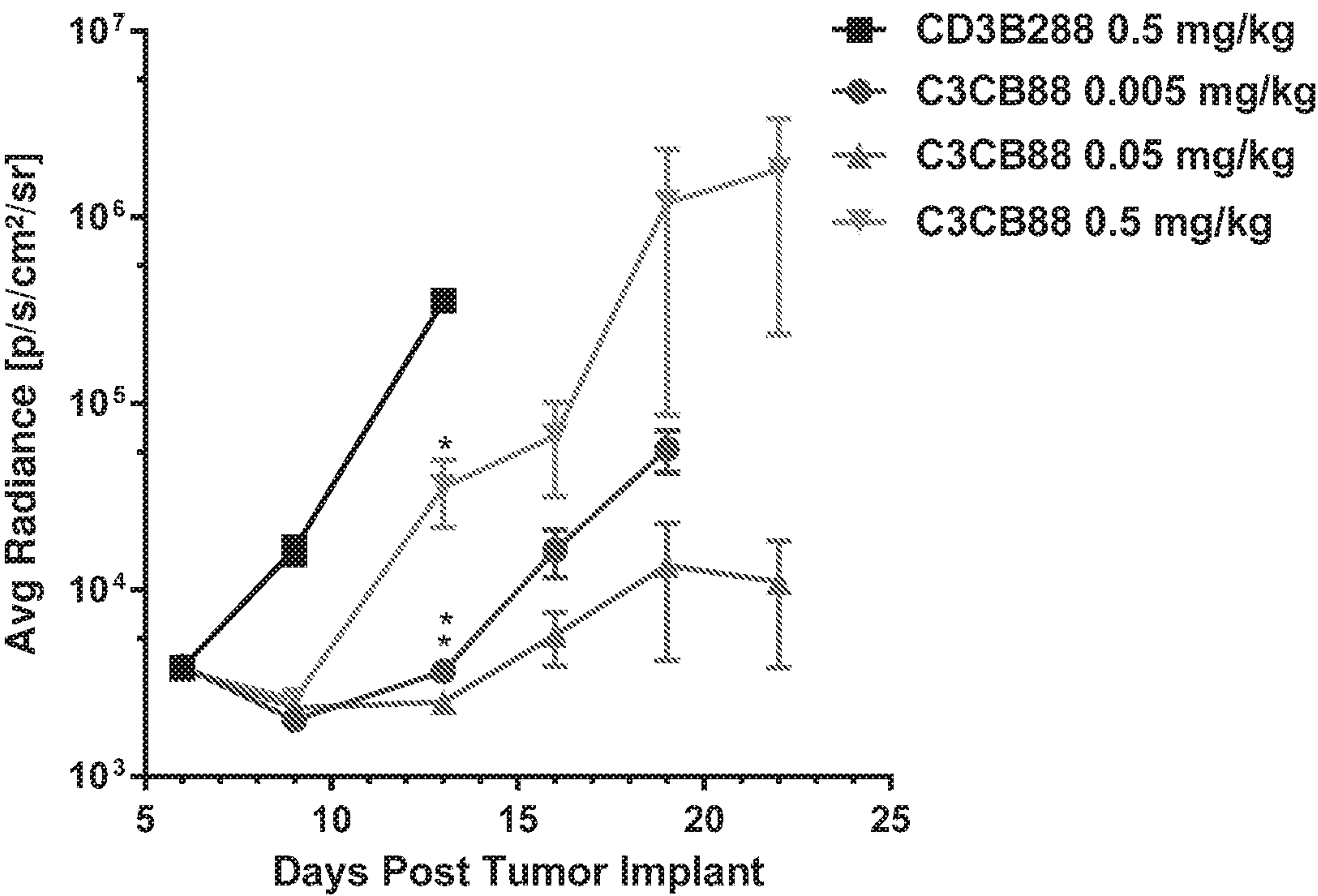


Fig. 69

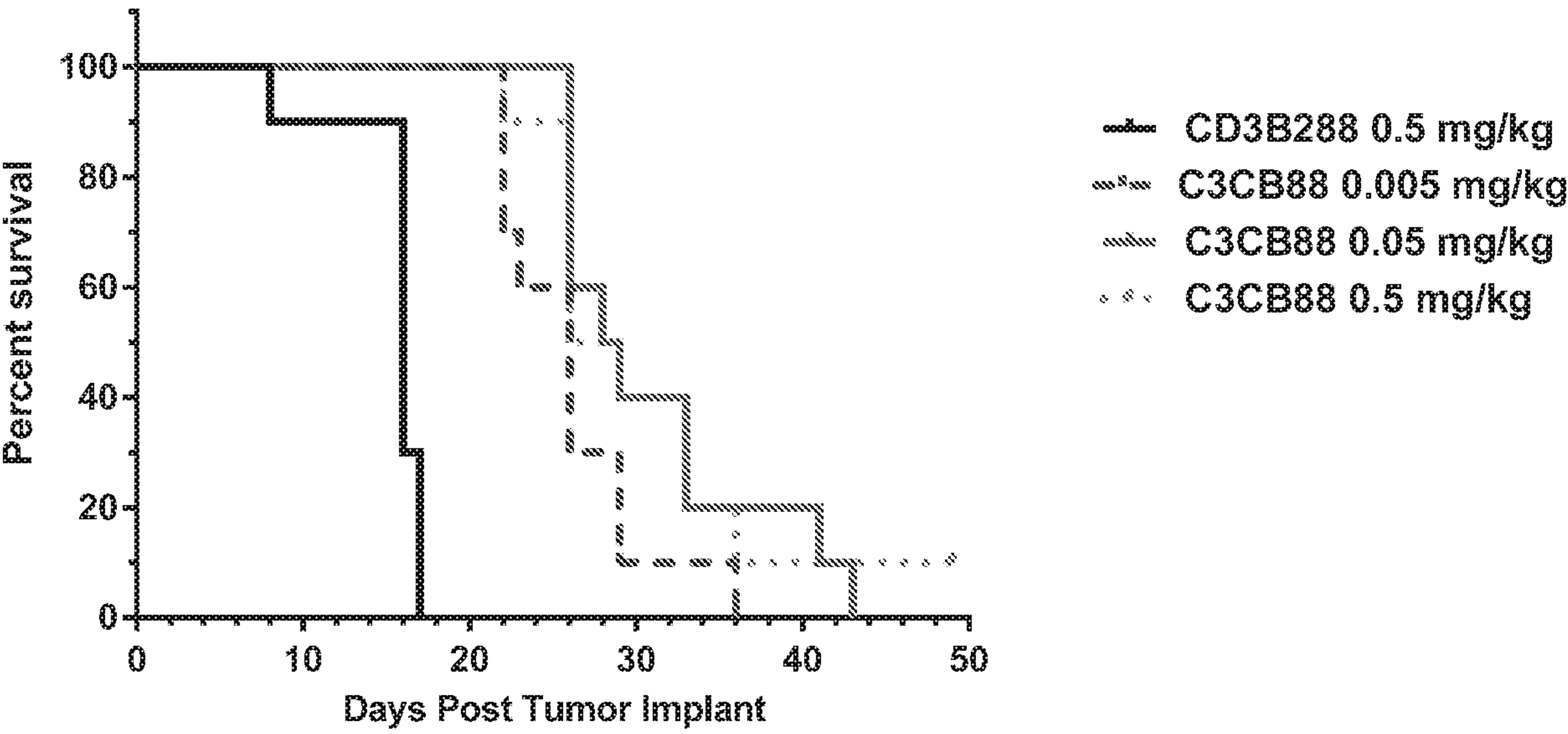


Fig. 70

25 EVQLLES GGGGLVQR--GGSLRPSCAASGFTFS
27 EVQLLES GGGGLVQPPGGSLRLSCAASGFTFS
87 EVQLLES GGGGLVQP--GGSLRLSCAASGFTFS
89 EVQLLES GGGGLVQP--GGSLRLSCAASGFTFS

25 SYSMSWVRQAPGKGLEWVSVISGSGGFTDY
27 SYSMSWVRQAPGKGLEWVSVISGSGGSFTSY
87 SYSMSWVRQAPGKGLEWVSVISGSGGFTDY
89 SYSMSWVRQAPGKGLEWVSVISGSGGFTDY

25 ADSVKGRFTISRDN SKNTLYLHMNSLRAED
27 ADSVKGRFTISRDN SNNTLYLQMSSLRAED
87 ADSVKGRFTISRDN SKNTLYLQMNSLRAED
89 ADSVKGRFTISRDN SKNTLYLHMNSLRAED

25 TAVYYCARMPLNSPHDYWGQGLVTVSS
27 TAVYYCARMPLNSPHDCWGQGLVTVSS
87 TAVYYCARMPLNSPHDYWGQGLVTVSS
89 TAVYYCARMPLNSPHDYWGQGLVTVSS
**

Fig. 71

```
28      AIQMTQSPSSLSASVGDRVTITCRASQGIR
30      AIQMTQSPSSLSASVGDRVTITCRASQGIR
88      DIQMTQSPSSLSASVGDRVTITCRASQGIR
90      AIQMTQSPSSLSASVGDRVTITCRASQGIR
          *****

28      NDLGWYQQKPGKAPKLLIYAASSLQSGVPS
30      NDLGWYQQKPGKAPKLLIYAASSLQSGVPS
88      NDLGWYQQKPGKAPKLLIYAASSLQSGVPS
90      NDLGWYQQKPGKAPKLLIYAASSLQSGVPS
          *****

28      RFSGSGSGTDFTLTISSLQPEDFATYYCLQ
30      RFSGSGSGTDFTLTISSLQPEDFATYYCLQ
88      RFSGSGSGTDFTLTISSLQPEDFATYYCLQ
90      RFSGSGSGTDFTLTISSLQPEDFATYYCLQ
          *****

28      DYNALTEFGGGTKVEIK
30      DYNYSLTEFGGGTKVEIR
88      DYNYP LTEFGGGTKVEIK
90      DYNYP LTEFGGGTKVEIK
          ***** , ***** :
```

Fig. 72

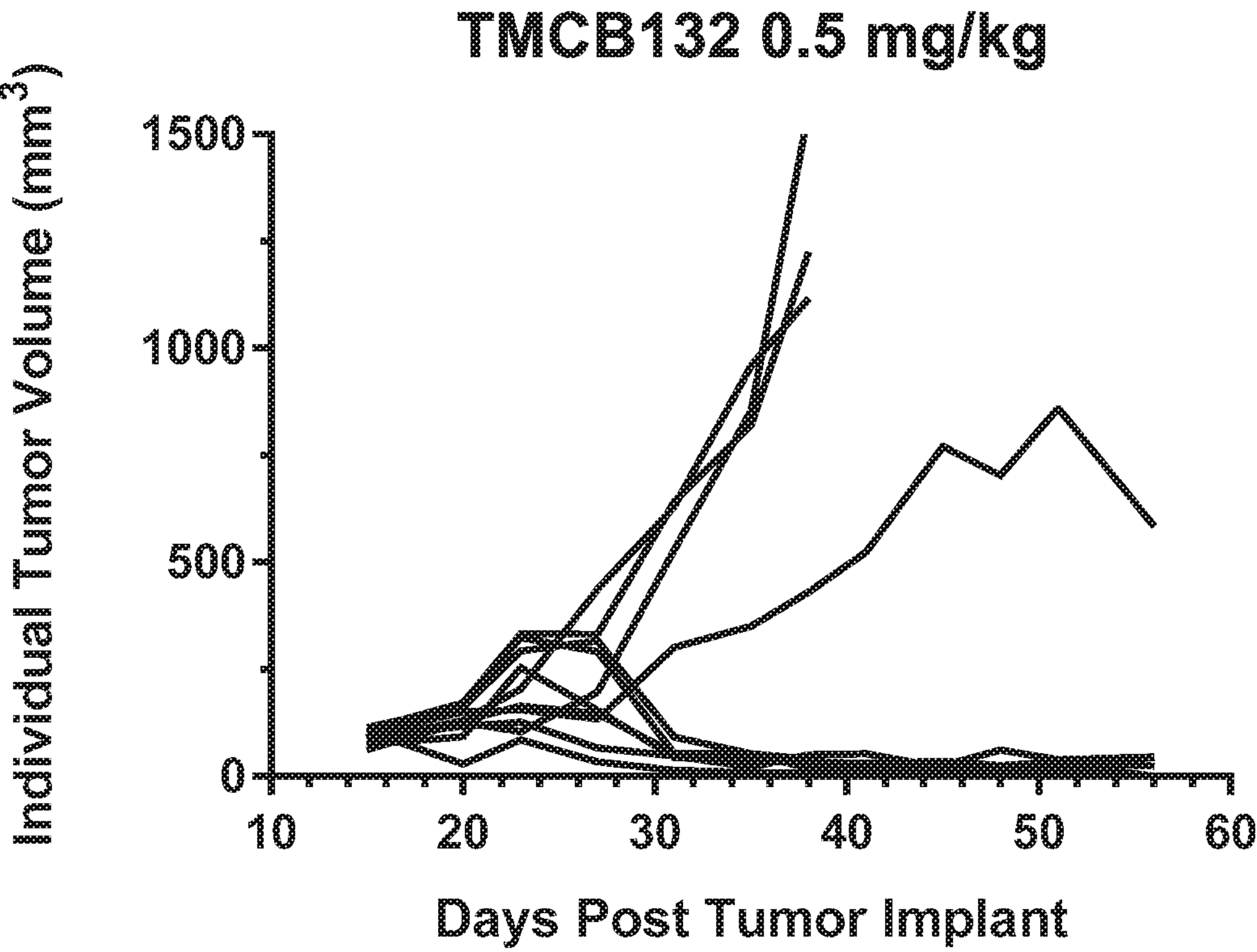
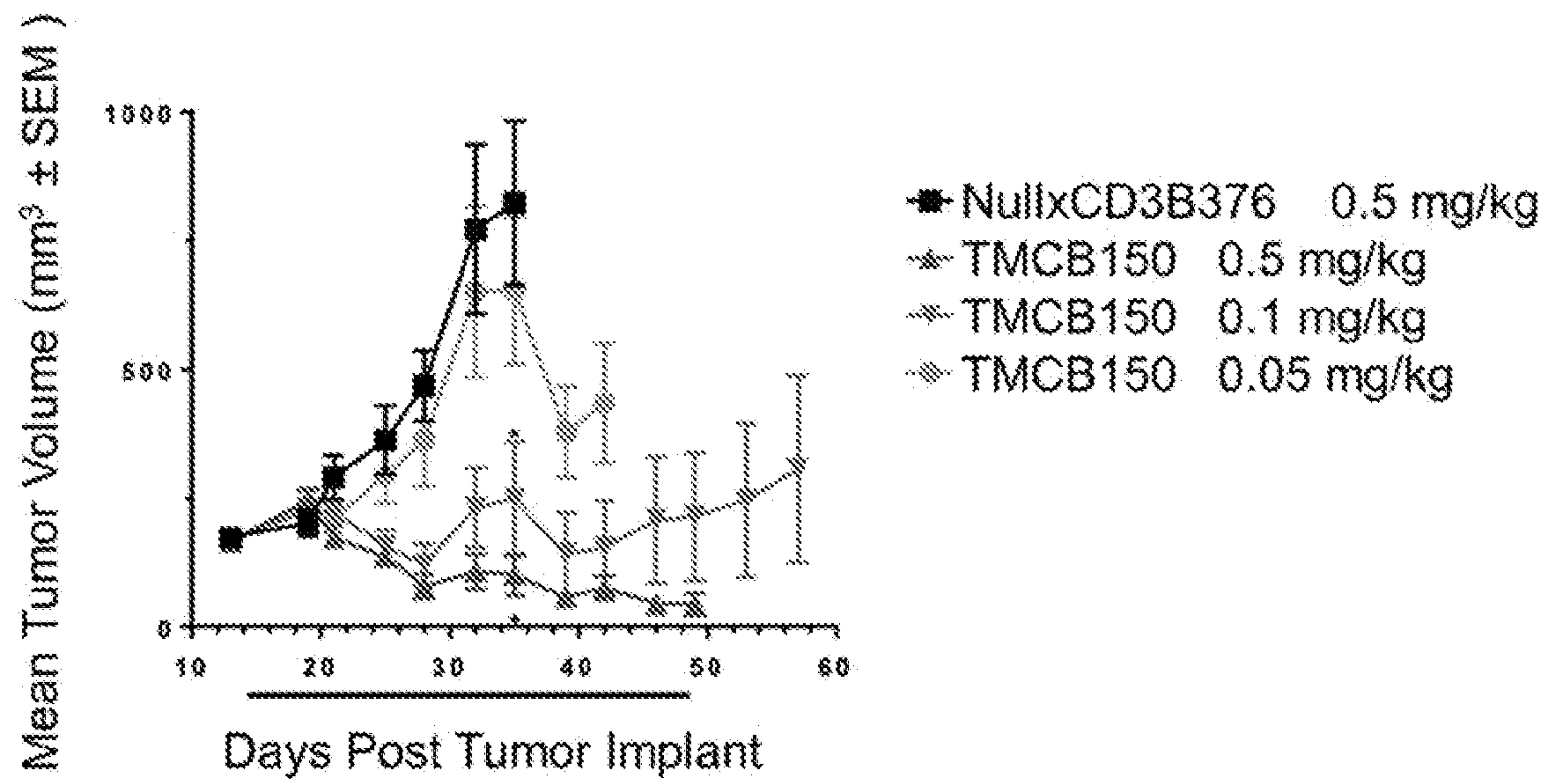


Fig. 73



* $p \leq 0.0001$ for treatment vs. control, calculated by the Linear Mixed-Effects analysis followed by pairwise comparisons. Bar below the X-axis represents the dosing period.

Fig. 74

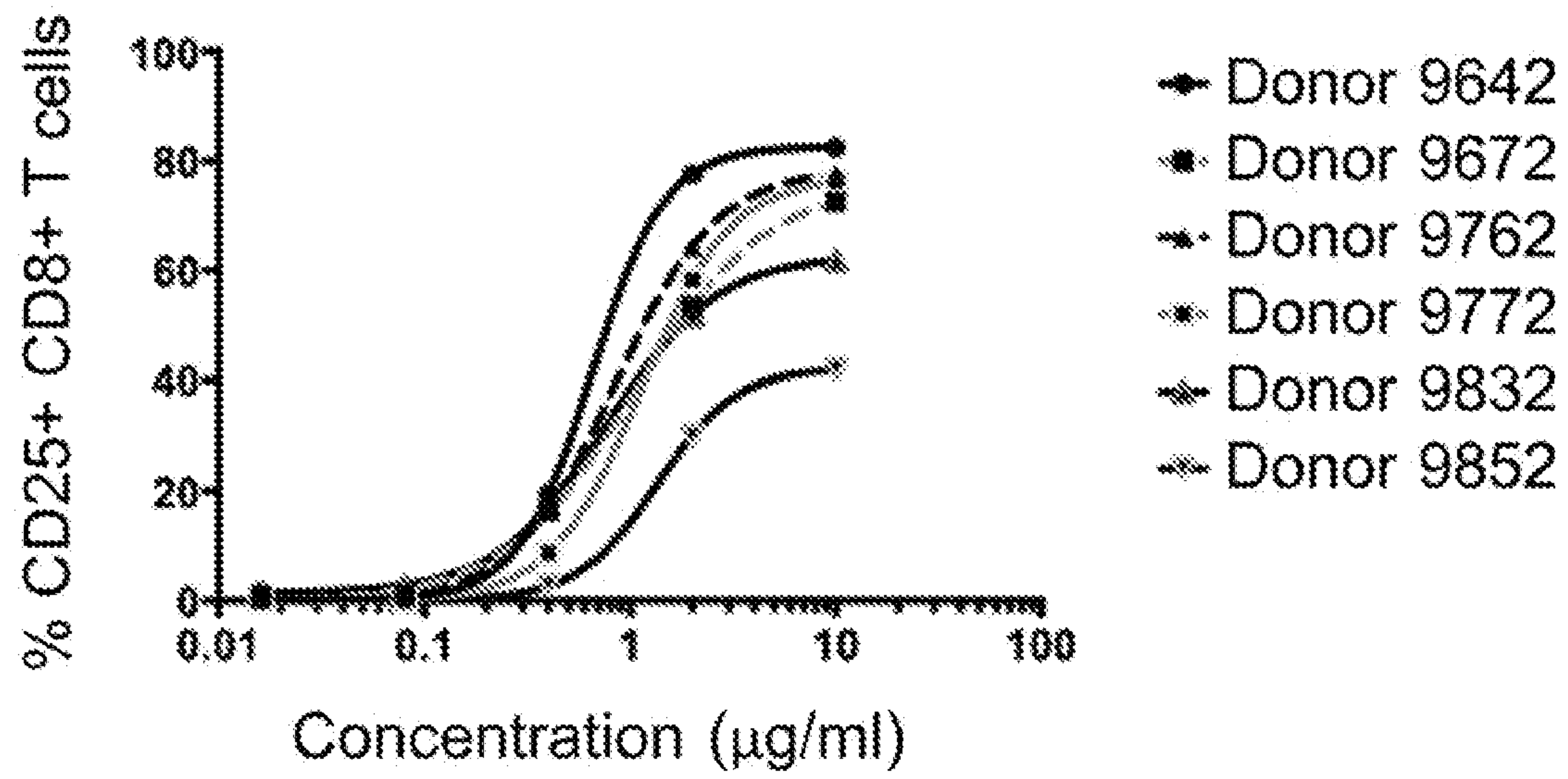


Fig. 75

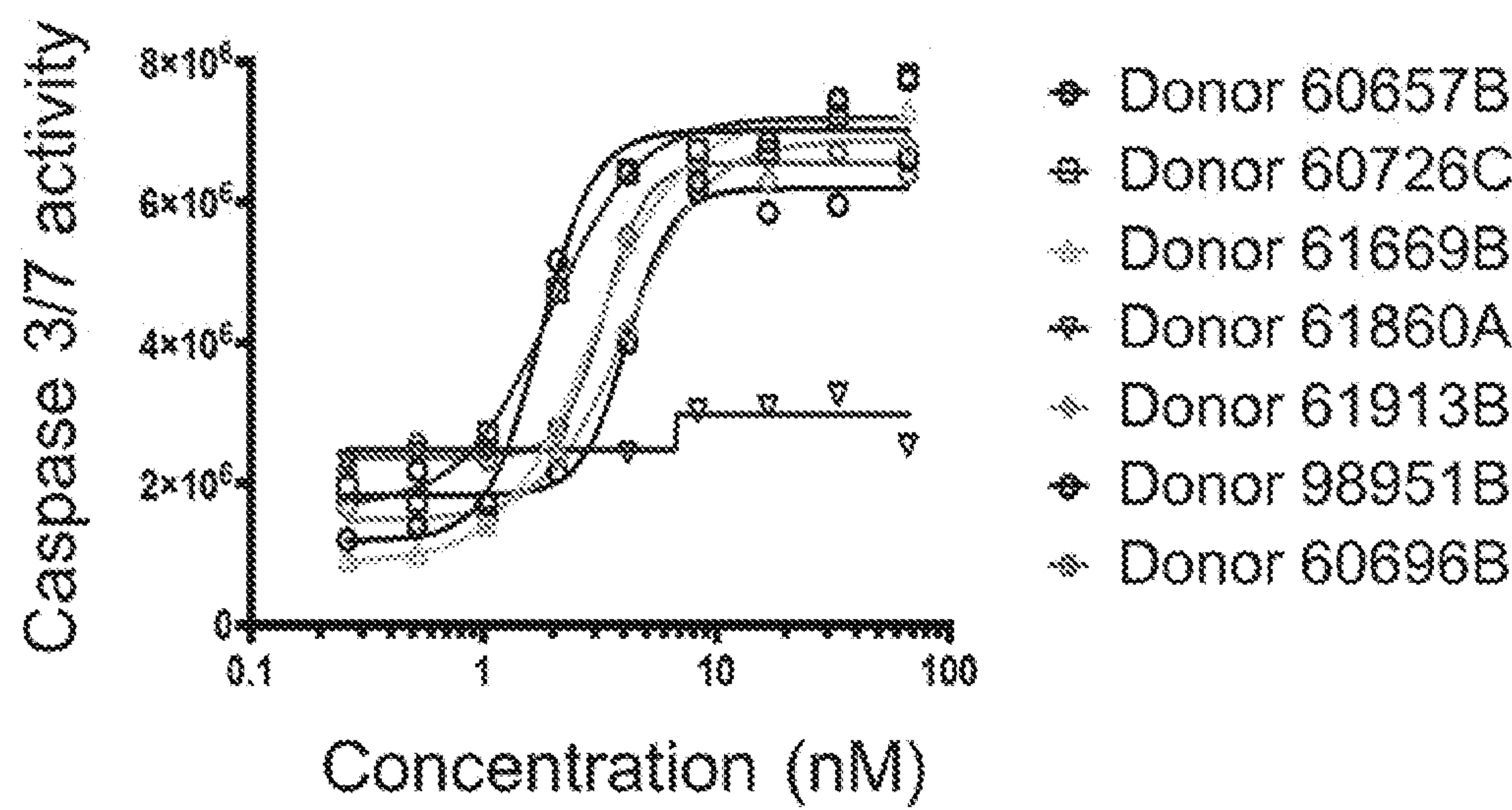


Fig. 76

