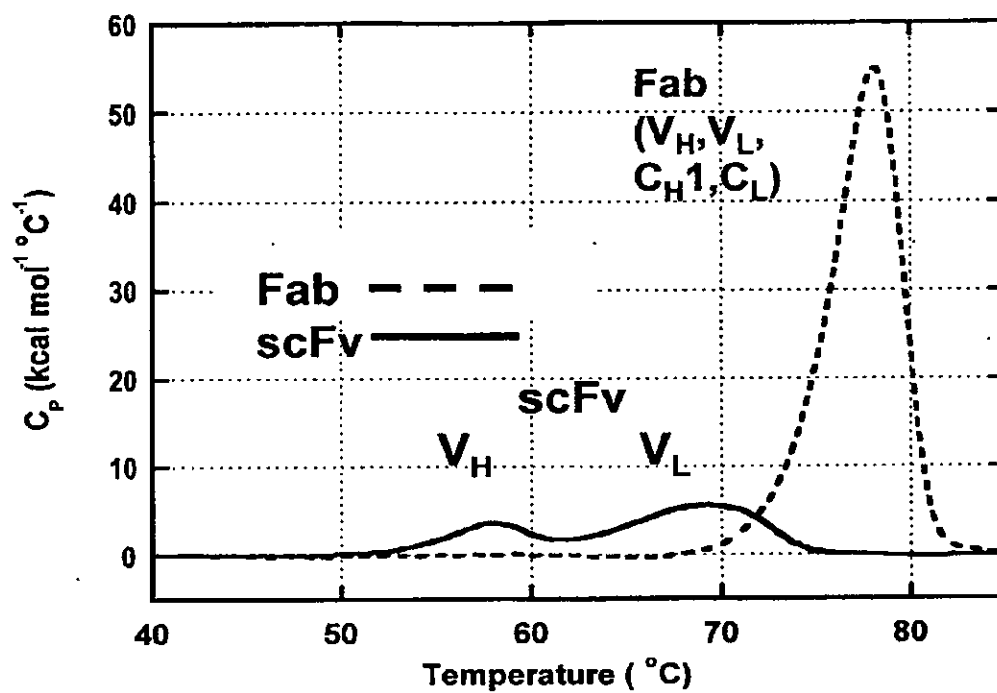
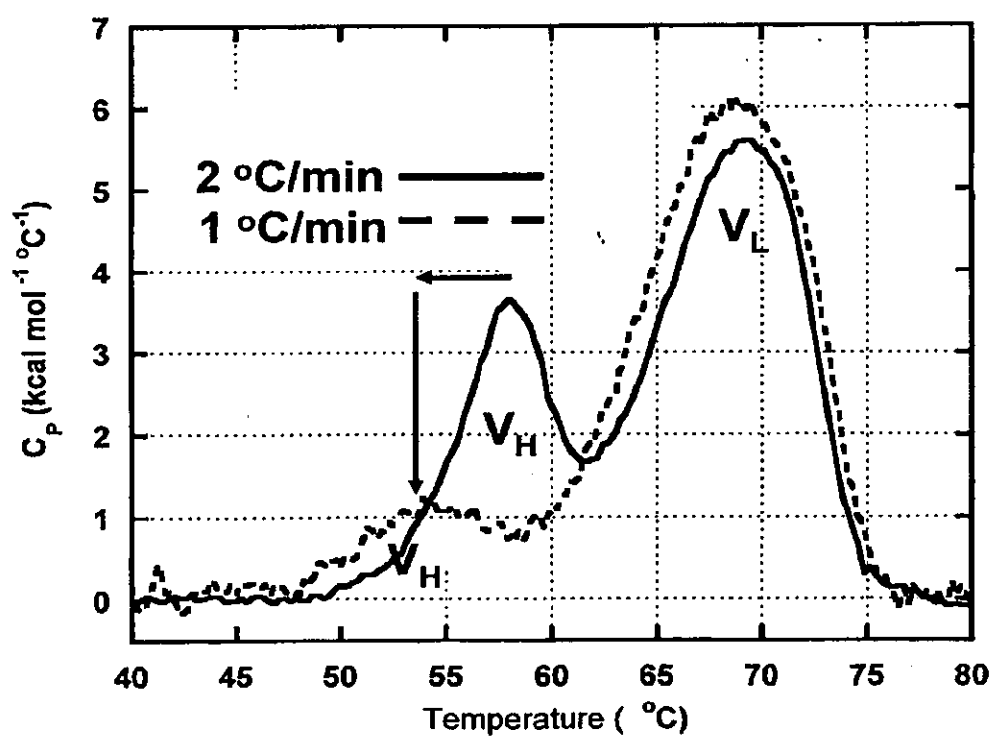


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GTTCAAG GGCAG GGTCACA ATCAC TGCAGAC AAATC CACCAGC ACAG
CCTACAT GGAGC TCAGCAG CCTGA GGTCTGA AGATA CTGCGGT CTAT
TACTGTG CAAGA TCCTGGG AAGGT TTTCCTT ACTGG GGCCAAG GGAC
CACGGTC ACCGT CTCCTCA GGTGGGGGCGGATCTGGGGGCGGCGGAT
CCGGTGGTGGTGGTAGTGACATTC AGATGAC CCAGT CTCCTAG CTCC
CTGTCCG CCTCA GTAGGAG ACAGG GTCACCA TCACC TGCAAGG CCAG
TCAGAAT GTGGG TATTAAT GTAGC CTGGTAT CAACA GAAACCA GGGA
AGGCTCC TAAAT CACTGAT TTCCT CGGCCTC CTACC GGTACAG TGGA
GTCCCTT CCAGA TTCAGCG GCAGT GGATCTG GGACA GATTTC A CTCT
CACCATC AGCAG CCTCCAG CCTGA AGACTTC GCAAC CTATTTTC TGTC
AGCAATA TGACA CCTATCC ATTCA CGTTCGG CCAGG GTACCAA GGTG
GAGATCA AA (SEQ ID NO: 3)

Fig. 1A

QVQLVQS GAEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ G
LEWMGWI YPGNV HAQYNEK FKGRV TITADKS TSTAY MELSSLR S
EDTAVYY CARSW EGFPYWG QGTTV TVSSGGG GSGGGGSGGGGSD
IQMTQSP SSLSA SVGDRVIT ITCKA SQNVGIN VAWYQ QKPGKAP K
SLISSAS YRYSG VPSRFSG SSGSGT DFTLTIS SLQPE DFATYFC Q
QYDTYPF TFGQG TKVEIK (SEQ ID NO: 4)

Fig. 1B

*Fig. 2A**Fig. 2B*

CAGGTCC AACTG GTGCAGT CTGGA GCTGAGG TGAAG AAGCCTG GGTC
 CTCAGTG AAGGT GTCCTGC AAGGC TTCTGGC TACAC TTTCACA ACCT
 ACTATTT GCACT GGGTGAG GCAGG CCCCTGG ACAGT GCCTTGA GTGG
 ATGGGAT GGATT TATCCTG GAAAT GTTCATG CTCAG TACAATG AGAA
 GTTCAAG GGCAG GGTGACA ATCAC TGCAGAC AAATC CACCAGC ACAG
 CCTACAT GGAGC TCAGCAG CCTGA GGTCTGA AGATA CTGCGGT CTAT
 TACTGTG CAAGA TCCTGGG AAGGT TTTCCTT ACTGG GGCCAAG GGAC
 CACGGTC ACCGT CTCCTCA GGTGGGGGCGGATCTGGGGGCGGCGGAT
CCGGTGGTGGTGGTAGTGACATTGAGATGACCCAGTCTCCTAGCTCC
 CTGTCCG CCTCA GTAGGAG ACAGG GTCACCA TCACC TGCAAGG CCAG
 TCAGAAT GTGGG TATTAAT GTAGC CTGGTAT CAACA GAAACCA GGGA
 AGGCTCC TAAAT CACTGAT TTCCT CGGCCTC CTACC GGTACAG TGGA
 GTCCCTT CCAGA TTCAGCG GCAGT GGATCTG GGACA GATTTC A CTCT
 CACCATC AGCAG CCTCCAG CCTGA AGACTTC GCAAC CTATTTTC TGTC
 AGCAATA TGACA CCTATCC ATTCA CGTTCGG CTGCG GTACCAA GGTG
 GAGATCA AA (SEQ ID NO: 9)

Fig. 3A

QVQLVQS GAIEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ **CLE**
 WMGWIYP GNVHA QYNEKFK GRVTI TADKSTS TAYME LSSLRSE DTA
 VYYCARS WEGFP YWGQGT T VTVSS GGGGSGGGGSGGGGSDIQMTQS
 PSSLSAS VGDRV TIT **CKASQ**NVGINVAWYQQKPGKAPKSLISSASY
 RYSGVPS RFSGS GSGTDFT LTISS LQPEDFA TYFCQ QYDTYPF TFG
 CGTKVEI K (SEQ ID NO:10)

Fig. 3B

CAGGTCC AACTG GTGCAGT CTGGA GCTGAGG TGAAG AAGCCTG GGTC
 CTCAGTG AAGGT GTCCTGC AAGGC TTCTGGC TACAC TTTCACA ACCT
 ACTATTT GCACT GGGTGAG GCAGG CCCCTGG ACAGG GACTTGA GTGG
 ATGGGAT GGATT TATCCTG GAAAT GTTCATG CTCAG TACAATG AGAA
 GTTCAAG GGCAG GGTCACA ATCAC TGCAGAC AAATC CACCAGC ACAG
 CCTACAT GGAGC TCAGCAG CCTGA GGTCTGA AGATA CTGCGGT CTAT
 TACTGTG CAAGA TCCTGGG AAGGT TTTCTT ACTGG GGCCAAG GGAC
 CACGGTC ACCGT CTCCTCA GGCGGTGGAGGGTCCGGTGGGGGCGGAT
CTGGGGGCGGCGGATCCGGTGGTGGTGGTAGTGACA TTCAGAT GACC
 CAGTCTC CTAGC TCCCTGT CCGCC TCAGTAG GAGAC AGGGTCA CCAT
 CACCTGC AAGGC CAGTCAG AATGT GGGTATT AATGT AGCCTGG TATC
 AACAGAA ACCAG GGAAGGC TCCTA AATCACT GATTT CCTCGGC CTCC
 TACCGGT ACAGT GGAGTCC CTTCC AGATTCA GCGGC AGTGGAT CTGG
 GACAGAT TTCAC TCTCACC ATCAG CAGCCTC CAGCC TGAAGAC TTCG
 CAACCTA TTTCT GTCAGCA ATATG ACACCTA TCCAT TCACGTT CGGC
 CAGGGTA CCAAG GTGGAGA TCAAA (SEQ ID NO:14)

Fig. 4A

QVQLVQS GAEVK KPGSSVK VSCKA SGYTFIT YYLHW VRQAPGQ GL
 EWMGWIY PGNVH AQYNEKF KGRVT ITADKST STAYM ELSSLRS ED
 TAVYYCA RSWEG FPYWGQG TTVTV SSGGGGSGGGSGGGSGGGG
SDIQMTQ SPSSL SASVGDR VTITC KASQNVG INVAV YQKPKGK AP
 KSLISSA SYRYS GVPSRFS GSGSG TDFTLTI SSLQP EDFATYF CQ
 QYDTYPF TFGQG TKVEIK (SEQ ID NO:15)

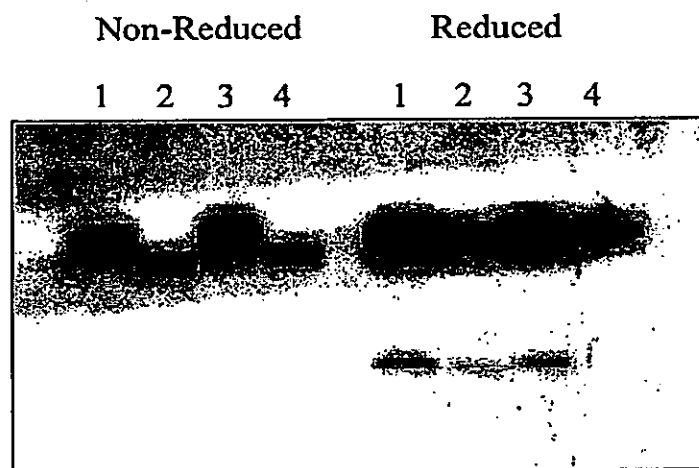
Fig. 4B

CAGGTCC AACTG GTGCAGT CTGGA GCTGAGG TGAAG AAGCCTG GGTCC
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 TATTTGC ACTGG GTGAGGC AGGCC CCTGGAC AGGGA CTTGAGT GGATG
 GGATGGA TTTAT CCTGGAA ATGTT CATGCTC AGTAC AATGAGA AGTTC
 AAGGGCA GGGTC ACAATCA CTGCA GACAAAT CCACC AGCACAG CCTAC
 ATGGAGC TCAGC AGCCTGA GGTCT GAAGATA CTGCG GTCTATT ACTGT
 GCAAGAT CCTGG GAAGGTT TTCCT TACTGGG GCCAA GGGACCA CGGTC
 ACCGTCT CCTCA GGAGGGGGCGGTTTCAGGCGGTGGAGGGTCCGGTGGG
GGCGGATCTGGGGGCGGCGGATCCGGTGGTGGTGGTAGTGACA TTCAG
 ATGACCC AGTCT CCTAGCT CCCTG TCCGCCT CAGTA GGAGACA GGGTC
 ACCATCA CCTGC AAGGCCA GTCAG AATGTGG GTATT AATGTAG CCTGG
 TATCAAC AGAAA CCAGGGA AGGCT CCTAAAT CACTG ATTTCTT CGGCC
 TCCTACC GGTAC AGTGGAG TCCCT TCCAGAT TCAGC GGCAGTG GATCT
 GGGACAG ATTTT ACTCTCA CCATC AGCAGCC TCCAG CCTGAAG ACTTC
 GCAACCT ATTTT TGTCAGC AATAT GACACCT ATCCA TTCACGT TCGGC
 CAGGGTA CCAAG GTGGAGA TCAAA (SEQ ID NO:16)

Fig. 5A

QVQLVQSGAEVKKPGSSVKVSCKASGYTFTTYLHWVRQAPQGGLWGMGWIYPGN
 VHAQYNEKFKGRVTITADKSTSTAYMELSSLRSEDTA VYYCARSWEGFPYWGQGT
 VTVSSGGGGSGGGSGGGSGGGSGGGSGGGSGGGSGGGSDIQMTQSPSSLSASVGDRTITCKA
 SQNVGINVAWYQQKPGKAPKSLISSASYRYSQVPSRFSGSGSGTDFTLTISLQPEDFA
 TYFCQQYDTPFTFGQGTKVEIK (SEQ ID NO:17)

Fig. 5B



Lane

- 1 – conventional BHA10 scFv
- 2 – BHA10 scFv V_H44/V_L100
- 3 – BHA10 scFv $(Gly_4Ser)_4$ linker
- 4 – BHA10 scFv V_H44/V_L100
and $(Gly_4Ser)_4$ linker

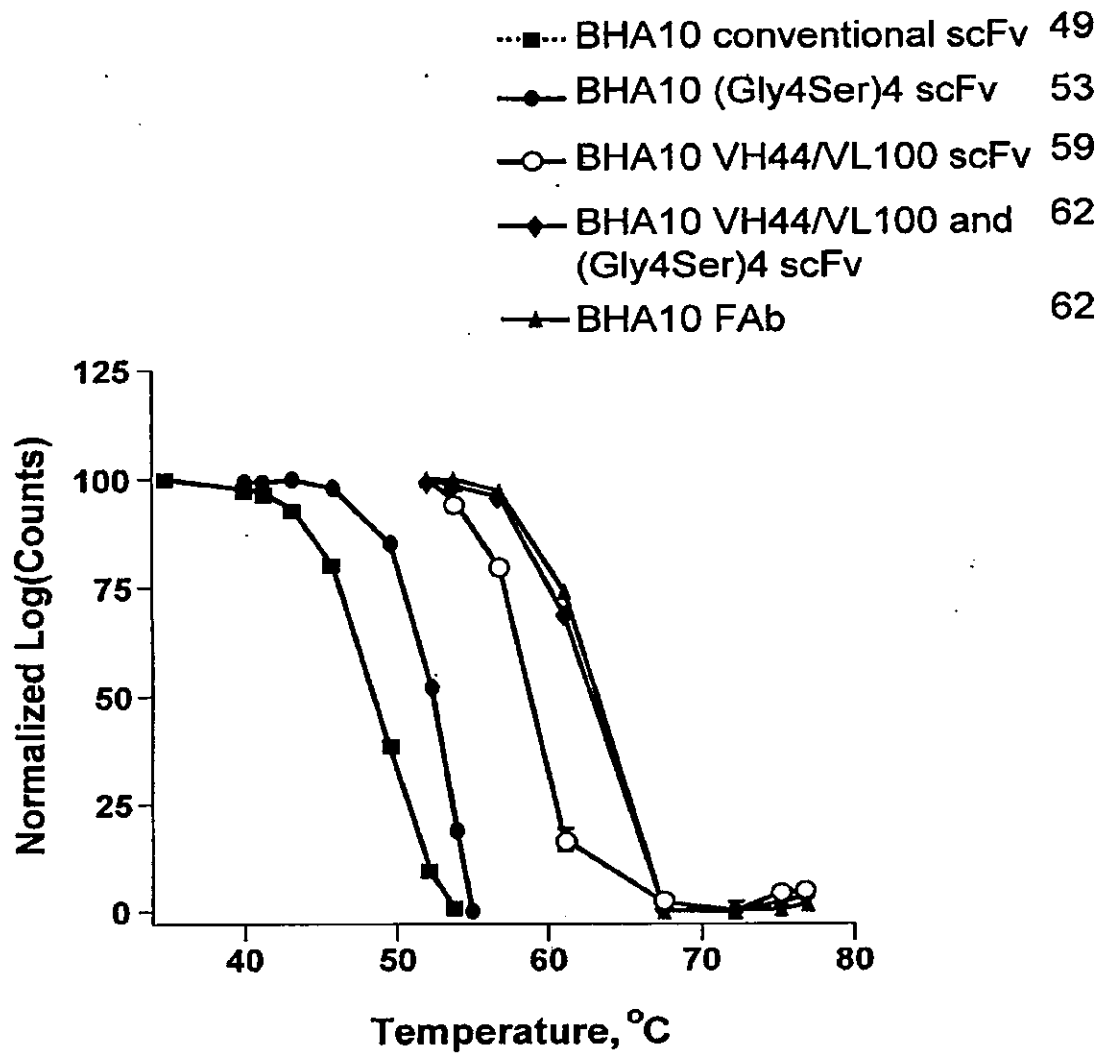
Fig. 6

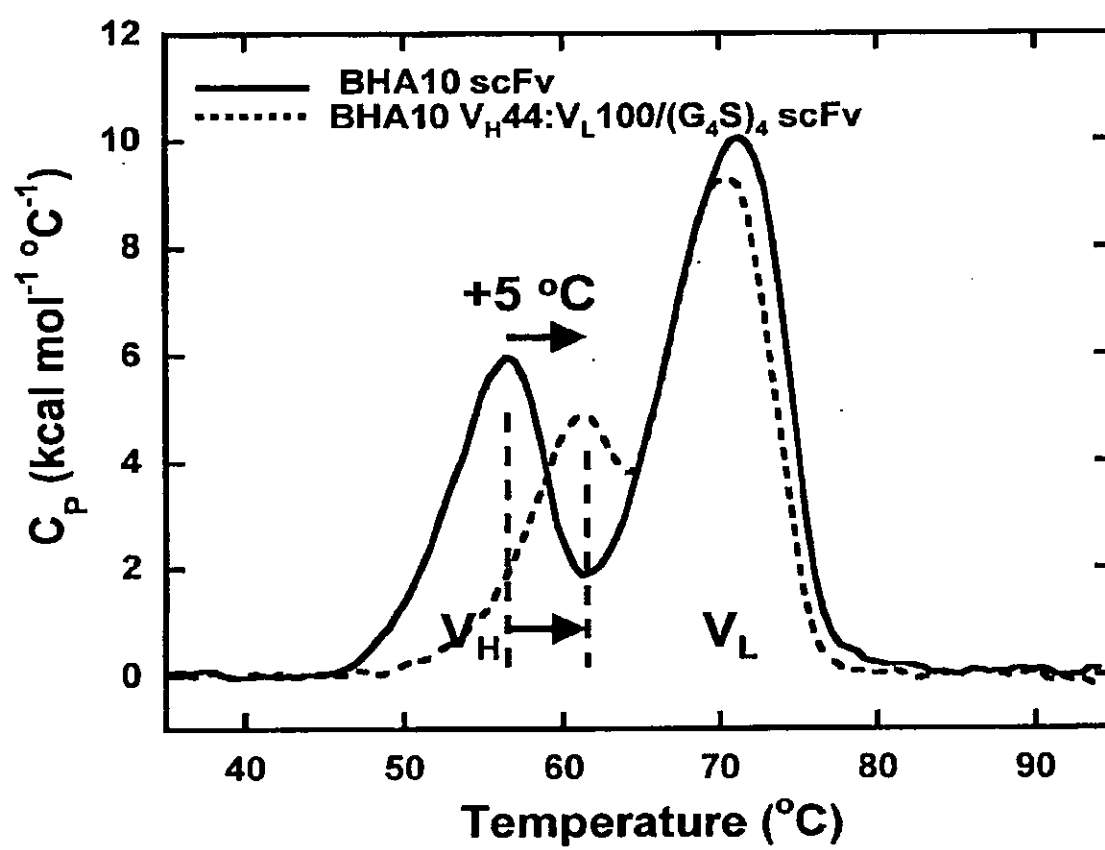
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 GTTCAAG GGCAG GGTCACA ATCAC TGCAGAC AAATC CACCAGC ACAG
 CCTACAT GGAGC TCAGCAG CCTGA GGTCTGA AGATA CTGCGGT CTAT
 TACTGTG CAAGA TCCTGGG AAGGT TTTCTT ACTGG GGCCAAG GGAC
 CACGGTC ACCGT CTCCTCA GGCGGTGGAGGGTCCGGTGGGGGCGGAT
CTGGGGGCGGCGGATCCGGTGGTGGTGGTAGTGACA TTCAGAT GACC
 CAGTCTC CTAGC TCCCTGT CCGCC TCAGTAG GAGAC AGGGTCA CCAT
 CACCTGC AAGGC CAGTCAG AATGT GGGTATT AATGT AGCCTGG TATC
 AACAGAA ACCAG GGAAGGC TCCTA AATCACT GATTT CCTCGGC CTCC
 TACCGGT ACAGT GGAGTCC CTTCC AGATTCA GCGGC AGTGGAT CTGG
 GACAGAT TTCAC TCTCACC ATCAG CAGCCTC CAGCC TGAAGAC TTCG
 CAACCTA TTTCT GTCAGCA ATATG ACACCTA TCCAT TCACGTT CGGC
 TGCGGTA CCAAG GTGGAGA TCAAA (SEQ ID NO:18)

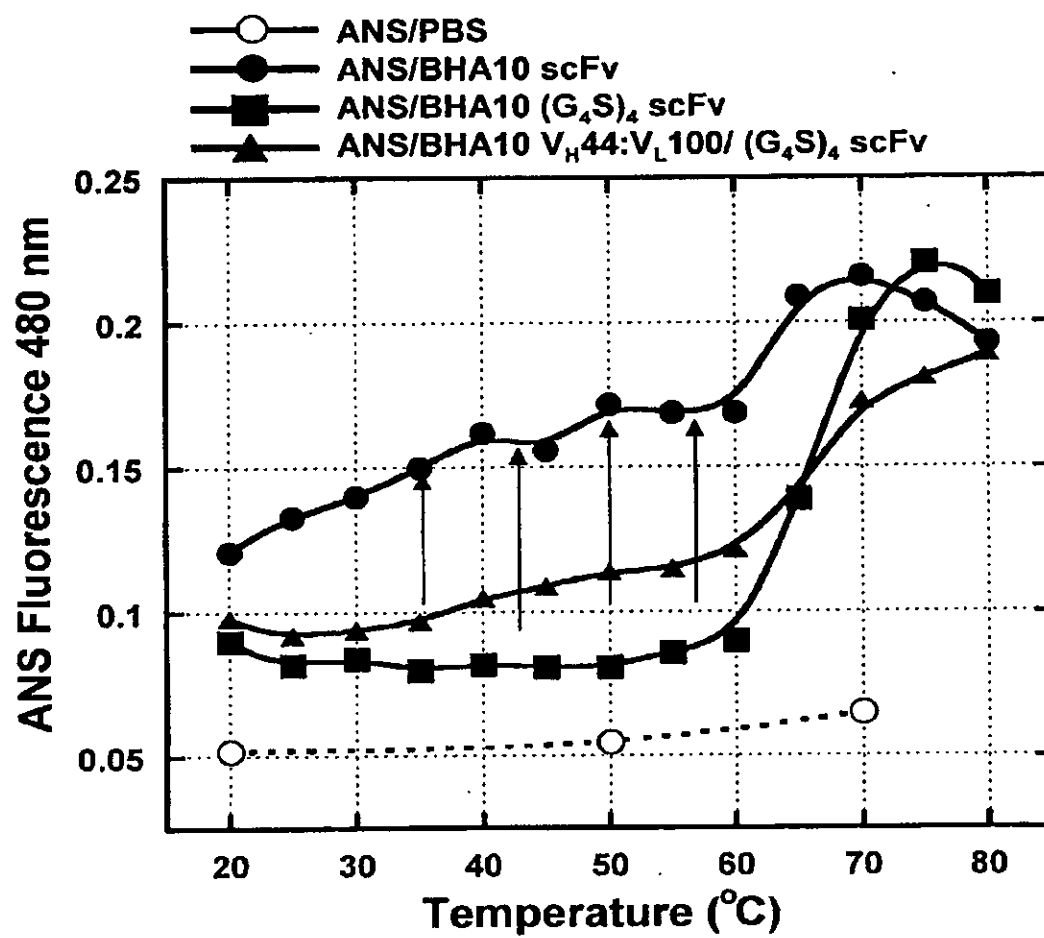
Fig. 7A

QVQLVQS GA EVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ CL
 EWMGWIY PGNVH AQYNEKF KGRVT ITADKST STAYM ELSSLRS ED
 TAVYYCA RSWEG FPYWGQG TTVTV SSGGGGS GGGGS GGGGS GGGG
 SDIQMTQ SPSSL SASVGDR VTIT CKASQNVGINVAWYQQKPGKAP
 KSLISSA SYRYS GVPSRFS GSGSG TDFTLTI SSLQP EDFATYF CQ
 QYDTYPF TFGCG TKVEIK (SEQ ID NO:19)

Fig. 7B

T_{50} *Fig. 8*

*Fig. 9*

*Fig. 10*

Pos#	MFR	P(i)	SMFR	P(i)	SR	S(i)	SR/MFR	Kabat#	VHIcons	Chothia
9	G	0.593	P	0.220	A	0.169	0.285	9	A	no data
11	L	0.745	V	0.186	V	0.186	0.25	11	V	P(7),A(7),T(3), S(32),V(10),L(41)
12	V	0.796	K	0.101	K	0.101	0.127	12	K	T(3), G(3),K(6),A(22),V(57),L(4)
16	G	0.491	Q	0.152	S	0.033	0.068	16	S	D(15), R(2),E(26),Q(17),G(19),A(14)
18	L	0.728	V	0.186	V	0.186	0.255	18	V	A(14),I(2),S(4),T(2), V(52),L(29)
20	L	0.813	V	0.101	V	0.101	0.125	20	V	V(4),L(42),I(38),M(14)
45	K	0.830	Q	0.135	Q	0.135	0.163	43	Q	S(3),T(7), R(6),K(38),Q(33),N(2),H(3),G(3)
50	V	0.559	I	0.186	M	0.084	0.151	48	M	W(7),V(15),L(41),I(30),M(9)
74	F	0.610	A	0.118	V	0.118	0.194	67	V	I(4),A(17),T(4),V(8),L(4),F(61)
78	R	0.559	K	0.169	A	0.118	0.212	71	A	G(34),A(9),S(3), R(22),K(8),V(16),L(4)
80	N	0.627	T	0.203	K	0.118	0.189	73	K	G(42),K(17),D(3),N(15),T(18)
82	K	0.661	S	0.118	T	0.033	0.051	75	T	no data
87	L	0.847	M	0.118	M	0.118	0.14	80	M	L(76),M(20),F(3)
88	Q	0.694	E	0.067	E	0.067	0.097	81	E	E(7),Q(40),K(13),N(2),S(2),T(33)

Fig. 11A

Pos#	MFR	P(i)	SMFR	P(i)	SR	S(i)	SR/MFR	Kabat#	VKIcons	Chothia
3	V	0.72	Q	0.16	Q	0.16	0.222	3	Q	no data
13	V	0.64	A	0.16	A	0.16	0.25	13	A	K(6),G(4),A(22),T(3),V(51),L(4)
48	Q	0.82	K	0.16	K	0.16	0.195	42	K	R(6),H(3),K(40),Q(33),G(3),T(7)
52	L	0.76	R	0.08	S	0.02	0.026	46	L	Y(2),W(53),R(6),G(2),T(4),V(15),L(32)
55	Y	0.88	E	0.04	S	0.02	0.022	49	Y	no data
56	W	0.3	L	0.12	S	0.12	0.4	50	A	no data
70	D	0.68	S	0.18	S	0.18	0.264	60	S	G(34),D(22),N(2),A(12),S(27),V(2)
95	V	0.58	T	0.16	T	0.16	0.275	85	T	L(3),D(6),T(27),V(44),I(8),M(9)
97	Y	0.84	F	0.14	F	0.14	0.166	87	Y	Y(79),F(19)

Fig. 11B

12/96

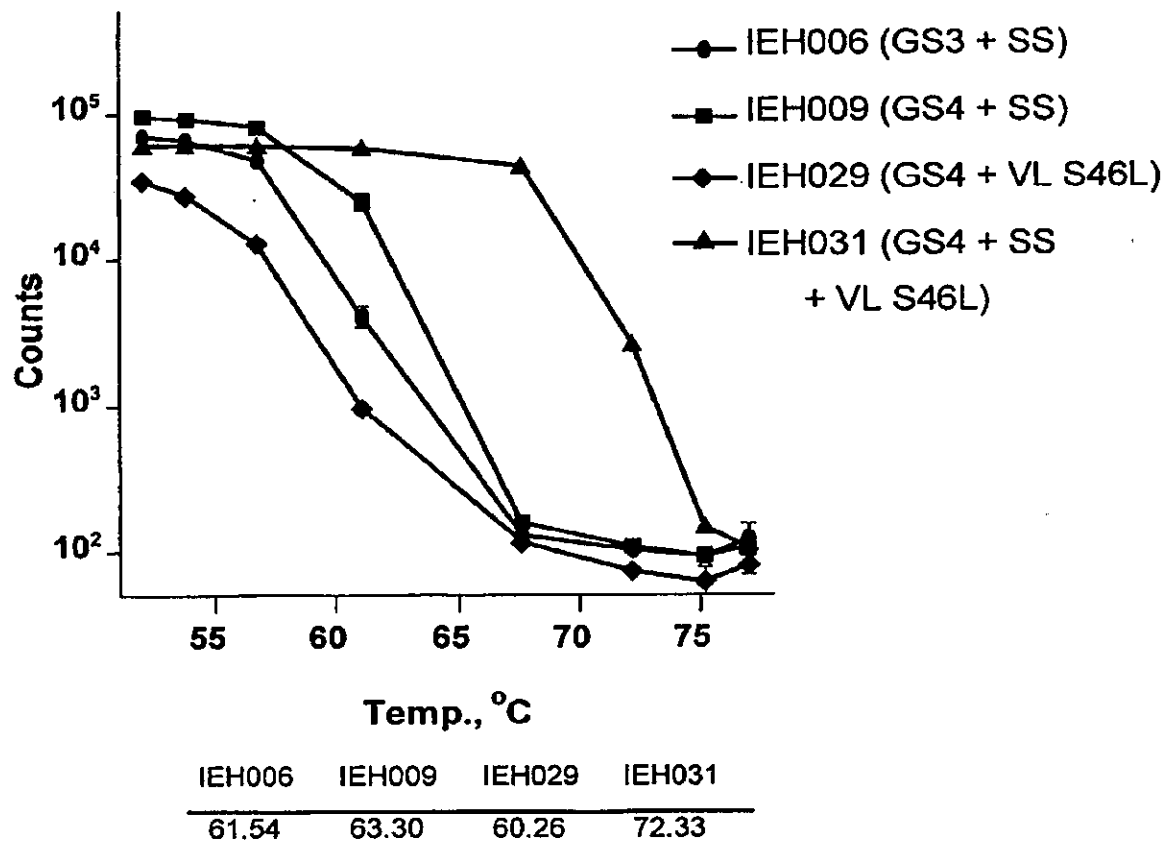
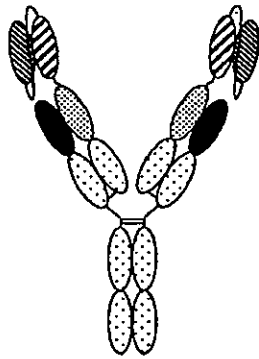
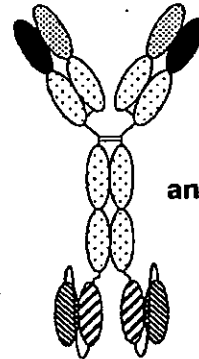


Fig. 12

N_L-terminal LTβR/TRAILR2
"N_L-Hercules"

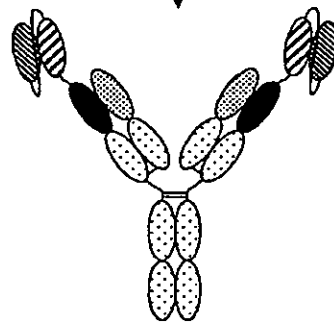


C-terminal LTβR/TRAILR2
"C-Hercules"



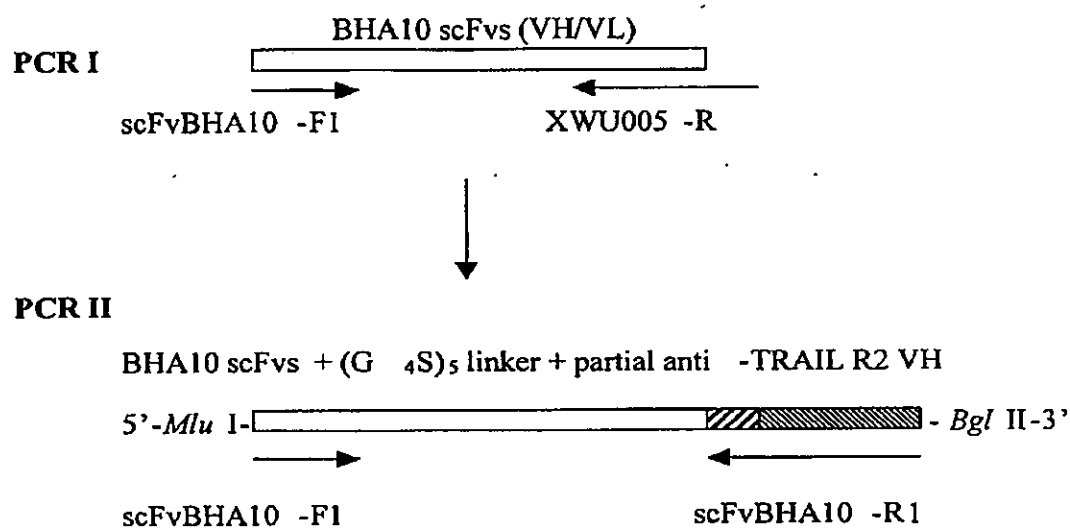
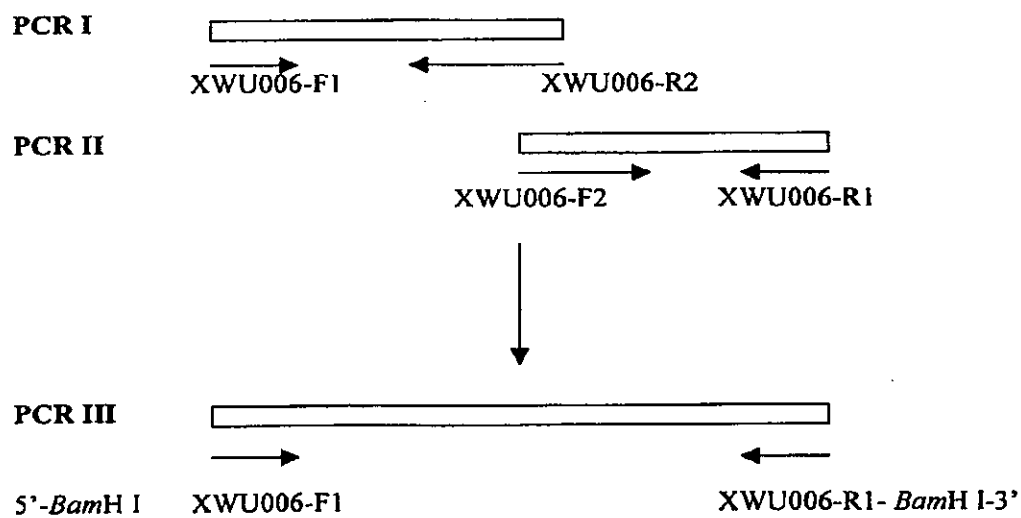
antiTRAILR2
IgG

Stable BHA10 scFv



N_H-terminal LTβR/TRAILR2
"N_H-Hercules"

Fig. 13

*Fig. 14A**Fig. 14B*

CAACTTG TGCTC ACTCAGT CATCT TCAGTCT CTTTC TCCCTGG GAGC
CTCAGCA AAAC T CACGTGC ACCTT GAGTAGT CAGCA CAGTACG TACA
CCATTGA ATGGT ATCAGCA ACAGC CCCTCAA GCCTC CTAAGTA TGTG
ATGGAGC TTAAG AAAGATG GAAGC CACAGCA CAGGT GATGGGA TTCC
TGATCGC TTCTC TGGATCC AGCTC TGGTGCT GATCG CTACCTT AGCA
TTTCCAA CATCC AGCCTGA AGATG AAGCAAT ATACA TCTGTGG TGTG
GGTGATA CAATT AAGGAAC AATTT GTGTATG TTTTC GGC GG T G GAAC
CAAGGTC GAAAT CAAACGT ACGGT GGCTGCA CCATC TGTCTTC ATCT
TCCCGCC ATCTG ATGAGCA GTTGA AATCTGG AACTG CCTCTGT TGTG
TGCCTGC TGAAT AACTTCT ATCCC AGAGAGG CCAA GTACAGT GGAA
GGTGGAT AACGC CCTCCAA TCGGG TAACTCC CAGGA GAGTGTC ACAG
AGCAGGA CAGCA AGGACAG CACCT ACAGCCT CAGCA GCACCCT GACG
CTGAGCA AAGCA GACTACG AGAAA CACAAAG TCTAC GCCTGCG AAGT
CACCCAT CAGGG CCTGAGC TCGCC CGTCACA AAGAG CTTCAAC AGGG
GAGAGTG TTGA (SEQ ID NO:28)

Fig. 15A

QLVLTQS SSVSF SLGASAK LTCTL SSQHSTY TIEWY QQQPLKP PK
YVMELKK DGSHS TGDGIPD RFSGS SSGADRY LSISN IQPEDEA IY
ICGVGDT IKEQF VYVFGGG TKVEI KRTVAAP SVFIF PPSDEQL KS
GTASVVC LLNNF YPREAKV QWKVD NALQSGN SQESV TEQDSKD ST
YSLSSTL TLSKA DYEKHKV YACEV THQGLSS PVTKS FNRGEC
(SEQ ID NO:29)

Fig. 15B

CAGGTCCAACCTGGTGCAGTCTGGAGCTGAGGTGAAGAAGCCTGGGTCTCAGTGAAGGT
 GTCCTGCAAGGCTTCTGGCTACACTTTTCAACCTACTATTTGCACTGGGTGAGGCAGG
 CCCCTGGACAGGGACTTGAGTGGATGGGATGGATTTATCCTGGAAATGTTTCATGCTCAG
 TACAATGAGAAGTTCAAGGGCAGGGTCACAATCACTGCAGACAAATCCACCAGCACAGC
 CTACATGGAGCTCAGCAGCCTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGAT
 CCTGGGAAGGTTTTCTTACTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGTGGG
 GGCGGATCTGGGGGCGGCGGATCCGGTGGTGGTGGTAGTGACATTCAGATGACCCAGTC
 TCCTAGCTCCCTGTCCGCCTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCCAGTC
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 CTGATTTCTCGGCCTCCTACCGGTACAGTGGAGTCCCTTCCAGATTTCAGCGGCAGTGG
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 ATTTCTGTCAGCAATATGACACCTATCCATTACGTTTCGGCCAGGGTACCAAGGTGGAG
 ATCAAAGGCGGTGGAGGGTCCGGTGGAGGGGGCTCTGGAGGGGGCGGTTCAGGGGGCGG
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 AGCCTGGAGAGACAGTCAAGATCTCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTAT
 TCAATACACTGGGTGAAACAGGCTCCAGGAAAGGGTTTAAAGTGATGGGCTGGATAAA
 CACTGAGACTGGTGAGCCAACATATACAGATGACTTCAAGGGACGATTTGCCTTCTCTT
 TGGTGACCTCTGCCACCACTGCCTATTTGCAGATCAACAACCTCAACAATGAGGACACG
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 GTGAGCCACGAAGACCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCA
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 TCCTCACCGTCTTGCAACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCC
 AACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCAAAGGGCAGCCCCG
 AGAACACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCA
 GCCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAGAGC
 AATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTC
 CTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCT
 TCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCC
 CTGCTCTCCGGGTGA (SEQ ID NO:30)

Fig. 16

QVQLVQS GAEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ GL
 EWMGWIY PGNVH AQYNEKF KGRVT ITADKST STAYM ELSSLRS ED
 TAVYYCA RSWEG FPYWGQG TTVTV SSGGGS GGGGS GGGGSDI QM
 TQSPSSL SASVG DRVTITC KASQN VGINVAW YQQKP GKAPKSL IS
 SASYRYS GVPSR FSGSGSG TDFTL TISSLQP EDFAT YFCQQYD TY
 PFTFGQG TKVEI KGGGSG GGGSG GGGSGGG GSGGG GSQIQLV QS
 GPELKPP GETVK ISCKASG FTFTD YSIHWVK QAPGK GLKWMGW IN
 TETGEPT YTDDF KGRFAFS LVTSA TTAYLQI>NNLNN EDTATFF CA
 RFIYDPY WGFAY WGQGTLV TVSAA STKGPSV FPLAP SSKSTSG GT
 AALGCLV KDYFP EPVTVSW NSGAL TSGVHTF PAVLQ SSGLYSL SS
 VVTVPSS SLGTQ TYICNVN HKPSN TKVDKKV EPKSC DKTHTCP PC
 PAPELLG GPSVF LFPPKPK DTLMI SRTPEVT CVVVD VSHEDPE VK
 FNWYVDG VEVHN AKTKPRE EQYNS TYRVVSV LTVLH QDWLNGK EY
 KCKVSNK ALPAP IEKTISK AKGQP REPQVYT LPPSR DELTKNQ VS
 LTCLVKG FYPSD IAVEWES NGQPE>NNYKTTP PVLDS DGSFFLY SK
 LTVDKSR WQQGN VFSCSVM HEALH NHYTQKS LSLSP G (SEQ ID

NO:31)

Fig. 17

CAGGTCCAACTGGTGCAGTCTGGAGCTGAGGTGAAGAAGCCTGGGTCTCAGTGAAGGTG
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 GAAGGTTTTCTTACTGGGGCCAAGGGACCACGGTCAACCGTCTCCTCAGGCGGTGGAGGG
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 TTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACC
 TTCCCGGCTGTCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCC
 TCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACC
 AAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAACCTCACACATGCCACCGTGC
 CCAGCACCTGAACTCCTGGGGGGACCGTCACTCTTCTTCCCCCCTTCCCAAGGAC
 ACCCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAA
 GACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACA
 AAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTTCAGCGTCTCACCGTCTTG
 CACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCA
 GCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTAC
 ACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTC
 AAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAAC
 AACTACAAGACCACGCCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAG
 CTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCAT
 GAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTGA
 (SEQ ID NO:32)

Fig. 18

QVQLVQS GAEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ GLEW
MGWIYPG NVHAQ YNEKFKG RVTIT ADKSTST AYMEL SSLRSED TAVY
YCARSWE GFPYW GQGTTVT VSSGG GGSGGGG SGGGG SGGGGSD IQMT
QSPSSLS ASVGD RVTITCK ASQNV GINVAWY QQKPG KAPKSLI SSAS
YRYSGVP SRFSG SGSGTDF TLTIS SLQPEDF ATYFC QQYDTYP FTFG
QGTKVEI KGGGG SGGGGSG GGGSG GGGSGGG GSQIQ LVQSGPE LKKP
GETVKIS CKASG FTFTDYS IHWVK QAPGKGL KWMGW INTETGE PTYT
DDFKGRF AFSLV TSATTAY LQINN LNNEDTA TFFCA RFIYDPY WGFA
YWGQGTI VTVSAASTKGPS VFPLA PSSKSTS GGTAALGCLVKD YFPE
PVTVSWN SGALT SGVHTFP AVLQS SGLYSLS SVVTV PSSSLGT QTYI
CNVNHKP SNTKV DKKVEPK SCDKT HTCPCP APPELL GGPSVFL FPPK
PKDTLMI SRTPE VTCVVVD VSHED PEVKFNW YVDGV EVHNAKT KPRE
EQYNSTY RVVSV LTVLHQD WLNGK EYKCKVS NKALP APIEKTI SKAK
GQPREPQ VYTLPSRDELT KNQVS LTCLVKG FYPSD IAVEWES NGQP
ENNYKTT PPVLD SDGSFFL YSKLT VDKSRWQ QGNVF SCSVMHE ALHN
HYTQKSL SLSPG (SEQ ID NO:33)

Fig. 19

CAGGTCC AACTGGTGCAGTCT GGAGCTGAGGTGAA GAAGCCTGGGTCCT CAGTG
 AAGGTGT CCTGCAAGGCTTCT GGCTACACTTTCAC AACCTACTATTTGC ACTGG
 GTGAGGC AGGC CCC TGGACAG TGCC TTGAGTGGAT GGGATGGATTTATC CTGGA
 AATGTTT ATGCTCAGTACAAT GAGAAGT TCAAGGG CAGGGTCACAATCA CTGCA
 GACAAAT CCAC CAGCACAGCC TACA TGGAGCTCAG CAGC CTGAGGTCTG AAGAT
 ACTGCGG TCTATTA CTGTGCA AGAT CCTGGGAAGG TTTT CCTTACTGGG GCCAA
 GGGACCA CGGT CACCGTCTCC TCAGGTGGGGGCGG ATCTGGGGGCGGCG GATCC
 GGTGGTG GTGG TAGTGACATT CAGATGACCCAGTC TCCTAGCTCCCTGT CCGCC
 TCAGTAG GAGACAGGGTCACC ATCA CCTGCAAGGC CAGT CAGAATGTGG GTATT
 AATGTAG CCTGGTATCAACAG AAAC CAGGGAAGGC TCCTAAATCACTGA TTTC
 TCGGCCT CCTA CCGGTACAGT GGAGTCCCTTCCAG ATTCAGCGGCAGTG GATCT
 GGGACAG ATTT CACTCTCACC ATCAGCAGCCTCCA GCCTGAAGACTTCG CAACC
 TATTTCT GTCAGCAATATGAC ACCTATCCATTCAC GTTCGGCTGCGGTA CCAAG
 GTGGAGA TCAAAGGCGGTGGA GGGTCCGGTGGAGG GGGCTCTGGAGGGG GCGGT
 TCAGGGG GCGGTGGATCGGGG GGAGGTGGCTCCCA GATC CAGTTGGTGC AGTCT
 GGACCTG AGCTGAAGAAGCCT GGAGAGACAGTCAA GATCTCCTGCAAGG CTTCT
 GGTTTTA CCTT CACAGACTAT TCAATACACTGGGT GAAACAGGCTCCAG GAAAG
 GGTTTAA AGTGATGGGCTGGATAAACACTGAGAC TGGTGAGCCAACAT ATACA
 GATGACT TCAAGGGACGATTT GCCTTCTCTTTGGT GACCTCTGCCACCA CTGCC
 TATTTGC AGATCAACAACCTC AACAATGAGGACAC GGCTACATTTTTCT GTGCT
 AGATTCA TCTATGATCCTTAT TGGGGGTTTGCTTA CTGGGGCCAGGGGA CTCTG
 GTCACTG TCTC CGCAGCTAGC ACCAAGGGCCCATC GGCTTCCCCCTGG CACCC
 TCCTCCA AGAGCACCTCTGGG GGCA CAGCGGCCCT GGGCTGCCTGGTCA AGGAC
 TACTTCC CCGAACC GG TGACG GTGT CGTGGAAC TC AGGC GCCCTGACCA GCGGC
 GTGCACA CCTT CCCGGCTGTC CTACAGTCTCAGG ACTCTACTCCCTCA GCAGC
 GTGGTGA CCGTGCCCTCCAGC AGCTTGGGCACCCA GACCTACATCTGCA ACGTG
 AATCACA AGCC CAGCAACACC AAGGTGGACAAGAA AGTTGAGCCCAAAT CTTGT
 GACAAAA CTCACACATGCCCA CCGTGCC CAGCACC TGAA CTCCTGGGGG GACCG
 TCAGTCT TCCTCTTCCCCCA AAAC CCAAGGACAC CCTCATGATCTCCC GGACC
 CCTGAGG TCACATGCGTGGTG GTGGACGTGAGCCA CGAAGACCCTGAGG TCAAG
 TTCAACT GGTA CGTGGACGGC GTGGAGGTGCATAA TGCCAAGACAAAGC CGCGG
 GAGGAGC AGTACAA CAGCACG TACC GTGTGGTTCAG CGTCTCACCGTCC TGCA C
 CAGGACT GGCTGAA TGGCAAG GAGTACAAGTGCAA GGTC TCCAAC
 (SEQ ID NO:34)

Fig. 20

QVQLVQS GAEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ CLE
WMGWIYP GNVHA QYNEKFK GRVTI TADKSTS TAYME LSSLRSE DTA
VYYCARS WEGFP YWGQGT TTVSS GGGGSGG GGS GGSDIQM TQS
PSSLSAS VGDRV TITCKAS QNVGI NVAWYQQ KPGKA PKSLISS ASY
RYSGVPS RFSGS GSGTDFT LTISS LQPEDFA TYFCQ QYDTYPF TFG
CGTKVEI KGGGG SGGGGSG GGS GGS GGS GGS GSQIQ LVQSGPE LKK
PGETVKI SCKAS GFTFTDY SIHWV KQAPGKG LKWMG WINTETG EPT
YTDDFKG RFAFS LVTSATT AYLQI>NNLNED TATFF CARFIYD PYW
GFAYWGQ GTLVT VSAASTK GPSVF PLAPSSK STSGG TAALGCL VKD
YFPEPVT VSWNS GALTSGV HTFPA VLQSSGL YSLSS VVTVPSS SLG
TQTYICN VNHKP SNTKVDK KVEPK SCDKTHT CPPCP APELLGG PSV
FLFPPKP KDTLM ISRTPEV TCVVV DVSHEDP EVKFN WYVDGVE VHN
AKTKPRE EQYNS TYRVVSV LTVLH QDWLNGK EYKCK VSNKALP API
EKTISKA KGQPR EPQVYTL PPSRD ELTKNQV SLTCL VKGFYPS DIA
VEWESNG QPENN YKTPPV LDSDG SFFLYSK LTVDK SRWQQGN VFS
CSVMHEA LHNHY TQKSLSL SPG

(SEQ ID NO:35)

Fig. 21

CAGGTCCAACCTGGTGCAGTCTGGAGCTGAGGTGAAGAAGCCTGGGTCTCAGTGAAGGTGT
CCTGCAAGGCTTCTGGCTACACTTTTCAACCTACTATTTGCACTGGGTGAGGCAGGCCCC
TGGACAGTGCCTTGAGTGGATGGGATGGATTTATCCTGGAAATGTTTCATGCTCAGTACAAT
GAGAAGTTCAAGGGCAGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGG
AGCTCAGCAGCCTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGG
TTTTCTTACTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGCGGTGGAGGGTCCGGT
GGGGGCGGATCTGGGGGCGGCGGATCCGGTGGTGGTGGTAGTGACATTCAGATGACCCAGT
CTCCTAGCTCCCTGTCCGCCTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCCAGTCA
GAATGTGGGTATTAATGTAGCCTGGTATCAACAGAAACCAGGGAAGGCTCCTAAATCACTG
ATTTCTCGGCCTCCTACCGGTACAGTGGAGTCCCTTCCAGATTCAGCGGCAGTGGATCTG
GGACAGATTTCACCTCTCACCATCAGCAGCCTCCAGCCTGAAGACTTCGCAACCTATTCTG
TCAGCAATATGACACCTATCCATTACGTTCCGGCTGCGGTACCAAGGTGGAGATCAAAGGC
GGTGGAGGGTCCGGTGGAGGGGGCTCTGGAGGGGGCGGTTTCAGGGGGCGGTGGATCGGGGG
GAGGTGGCTCCCAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGAC
AGTCAAGATCTCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTG
AAACAGGCTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAAACACTGAGACTGGTGAGC
CAACATATACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCCACCAC
TGCCTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTCTGTGCTAGA
TTCATCTATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACTCTGGTCACTGTCT
CCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTC
TGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTG
TCGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGACACCTTCCCGGCTGTCTACAGTCCT
CAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGAC
CTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
AAATCTTGTGACAAAACCTCACACATGCCACCGTGCCAGCACCTGAACTCCTGGGGGGAC
CGTCAGTCTTCTCTTCCCCCCTCAAGGACACCCCTCATGATCTCCCGGACCCCTGA
GGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGGTAC
GTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCA
CGTACCGTGTGGTCAGCGTCTCACCGTCTGCAACCAGGACTGGCTGAATGGCAAGGAGTA
CAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCCAAAGCC
AAAGGGCAGCCCCGAGAACCACAGGTGTACACCTGCCCCCATCCCGGGATGAGCTGACCA
AGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATCGCCGTGGA
GTGGGAGAGCAATGGGCAGCCGGAGAACAACACTACAAGACCACGCCTCCCGTGCTGGACTCC
GACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGA
ACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT
CTCCCTGTCTCCGGGTGA (SEQ ID NO:36)

Fig. 22

QVQLVQS GAIEVK KPGSSVK VSCKA SGYTFTT YYLHW VRQAPGQ CLEW
MGWIYPG NVHAQ YNEKFKG RVTIT ADKSTST AYMEL SSLRSED TAVY
YCARSWE GFPYW GQGTTVT VSSGG GSGGGG SGGGG SGGGGSD IQMT
QSPSSLS ASVGD RVTITCK ASQNV GINVAWY QQKPG KAPKSLI SSAS
YRYSGVP SRFSG SGSGTDF TLTIS SLQPEDF ATYFC QQYDTYP FTFG
CGTKVEI KGGGG SGGGGSG GGGSG GGGSGGG GSQIQ LVQSGPE LKKP
GETVKIS CKASG FTFTDYS IHWVK QAPGKGL KWMGW INTETGE PTYT
DDFKGRF AFSLV TSATTAY LQINN LNNEDTA TFFCA RFIYDPY WGFA
YWGQGTI VTVSA ASTKGPS VFPLA PSSKSTS GGTAALGCLVKD YFPE
PVTVSWN SGALT SGVHTFP AVLQS SGLYSLS SVVTV PSSSLGT QTYI
CNVNHKP SNTKV DKKVEPK SCDKT HTCPCP APELL GGPSVFL FPPK
PKDTLMI SRTPE VTCVVVD VSHED PEVKFNW YVDGV EVHNAKT KPRE
EQYNSTY RVVSV LTVLHQD WLNGK EYKCKVS NKALP APIEKTI SKAK
GQPREPQ VYTLPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQP
ENNYKTT PPVLD SDGSFFL YSKLT VDKSRWQ QGNVF SCSVMHE ALHN
HYTQKSL SLSPG (SEQ ID NO:37)

Fig. 23

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAG
ATCTCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTGAAA
CAGGCTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACACTGAGACTGGTGAG
CCAACATATACAGATGACTTCAAGGGACGATTTGCCCTTCTCTTTGGTGACCTCTGCC
ACCACTGCCTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTC
TGTGCTAGATTTCATCTATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACT
CTGGTCACTGTCTCCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCC
TCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTAC
TTCCCCGAACCGGTGACGGTGTCTGGAACTCAGGCGCCCTGACCAGCGGCGTGAC
ACCTTCCCCGGCTGTCTTACAGTCTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACC
GTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCC
AGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAACCTCACACA
TGCCCAACCGTGCCCAAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCTTCTTCCCC
CCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCACATGCGTGGTG
GTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG
GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGT
GTGGTCAGCGTCTTCAACCGTCTTGCAACAGGACTGGCTGAATGGCAAGGAGTACAAG
TGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAGCC
AAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTG
ACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATC
GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAACAAGACCACGCCTCCC
GTGCTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGC
AGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCTGATGATGAGGCTCTGCACAAC
CACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCGGGGGTGGATCC
GGTGGAGGGGGCTCCGGCGGTGGCGGGTCCCAGGTCCAACCTGGTGCAGTCTGGAGCT
GAGGTGAAGAAGCCTGGGTCTCAGTGAAGGTGTCTGCAAGGCTTCTGGCTACACT
TTCACAACCTACTATTTGCACTGGGTGAGGCAGGCCCTGGACAGGGACTTGAGTGG
ATGGGATGGATTTATCCTGGAAATGTTTCATGCTCAGTACAATGAGAAGTTCAAGGGC
AGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGGAGCTCAGCAGC
CTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGGTTTTCT
TACTGGGGCCAAGGGACCACGGTCAACGTCTCCTCAGGTGGGGCGGATCTGGGGGC
GGCGGGTCCGGTGGTGGTGGTAGTGACATTTCAGATGACCCAGTCTCCTAGCTCCCTG
TCCGCTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCCAGTCAGAATGTGGGT
ATTAATGTAGCCTGGTATCAACAGAAACCAGGGAAGGCTCCTAAATCACTGATTTCC
TCGGCTCCTACCGGTACAGTGGAGTCCCTTCCAGATTCAGCGGCAGTGGATCTGGG
ACAGATTTCACTCTCACCATCAGCAGCCTCCAGCCTGAAGACTTCGCAACCTATTTT
TGTCAGCAATATGACACCTATCCATTACGTTCCGCCAGGGTACCAAGGTGGAGATC
AAATGA (SEQ ID NO:44)

Fig. 24

QIQLVQS GPELK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK G
 LKWMGWI NTETG EPTYTDD FKGRF AFSLVTS ATTAY LQINNLN N
 EDTATFF CARFI YDPYWGF AYWGQ GTLVTVS AASTK GPSVFPL A
 PSSKSTS GGTAALGCLVKD YFPEP VTVSWNS GALTS GVHTFPA V
 LQSSGLY SLSSV VTPVSSS LGTQT YICNVNH KPSNT KVDKKVE P
 KSCDKTH TCPPC PAPELLG GPSVF LFPPKPK DTLMI SRTPEVT C
 VVVDVSH EDPEV KFNWYVD GVEVH NAKTKPR EEQYN STYRVVS V
 LTVLHQD WLNGK EYKCKVS NKALP APIEKTI SKAKG QPREPQV Y
 TLPPSRD ELTKN QVSLTCL VKGFY PSDIAVE WESNG QPENNYK T
 TPPVLDS DGSFF LYSKLTVDKSRW QQGNVFS CSVMH EALHNHY T
 QKSLSLS PGKSG GGGSGGG GSGGG GSQVQLV QSGAE VKKPGSS V
 KVSCAS GYTFT TYYLHWV RQAPG QGLEWMG WIYPG NVHAQYN E
 KFKGRVT ITADK STSTAYM ELSSL RSEDVAV YYCAR SWEGFPY W
 GQGTTVT VSSGG GSGGGGG SGGGG SDIQMTQ SPSSL SASVGDR V
 TITCKAS QNVGI NVAWYQQ KPGKA PKSLISS ASYRY SGVPSRF S
 GSGSGTD FTLTI SSLQPED FATYF CQQYDTY PFTFG QGTKVEI K
 (SEQ ID NO:45)

Fig. 25

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAGATC
 TCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTGAAACAGGCT
 CCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAAACACTGAGACTGGTGAGCCAACATAT
 ACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCCACCACTGCCTAT
 TTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTCTGTGCTAGATTATC
 TATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACTCTGGTCACTGTCTCCGCA
 GCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGG
 GGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTG
 TGGAACCTCAGGCGCCCTGACCAGCGGCGTGACACACCTTCCCGGCTGTCTACAGTCTCTCA
 GGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACC
 TACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
 AAATCTTGTGACAAAACCTCACACATGCCACCGTGCCAGCACCTGAACTCCTGGGGGGA
 CCGTCAGTCTTCTCTTCCCCCAAAACCCAAGGACACCCCTCATGATCTCCCGGACCCCT
 GAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGG
 TACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAAC
 AGCACGTACCGTGTGGTCAAGCTCTCACCGTCTTGCACCAGGACTGGCTGAATGGCAAG
 GAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCC
 AAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAG
 CTGACCAAGAACCAGGTCAAGCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATC
 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAACAAGACCACGCCTCCCGTG
 CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGG
 CAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
 CAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCGGGGGTGGATCCGGTGGAGGGGGC
 TCCGGCGGTGGCGGGTCCCAGGTCCAACCTGGTGCAGTCTGGAGCTGAGGTGAAGAAGCCT
 GGGTCTCAGTGAAGGTGTCTGCAAGGCTTCTGGCTACACTTTTACAACCTACTATTTG
 CACTGGGTGAGGCAGGCCCTGGACAGGGACTTGAGTGGATGGATGGATTTATCCTGGA
 AATGTTTATGCTCAGTACAATGAGAAGTTCAAGGGCAGGGTCACAATCACTGCAGACAAA
 TCCACCAGCACAGCCTACATGGAGCTCAGCAGCCTGAGGTCTGAAGATACTGCGGTCTAT
 TACTGTGCAAGATCCTGGGAAGGTTTTCTTACTGGGGCCAAGGGACACGGTCACCGTC
 TCCTCAGGCGGTGGAGGGTCCGGTGGGGGCGGATCTGGGGGCGGCGGGTCCGGTGGTGGT
 GGTAGTGACATTCAAGATGACCCAGTCTCCTAGCTCCCTGTCCGCCTCAGTAGGAGACAGG
 GTCACCATCACCTGCAAGGCCAGTCAGAATGTGGGTATTAATGTAGCCTGGTATCAACAG
 AAACCAGGGAAGGCTCCTAAATCACTGATTTCTCGGCCTCCTACCGGTACAGTGGAGTC
 CCTTCCAGATTCAAGCGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCCTC
 CAGCCTGAAGACTTCGCAACCTATTTCTGTTCAGCAATATGACACCTATCCATTACGTTT
 GGCCAGGGTACCAAGGTGGAGATCAAATGA (SEQ ID NO:46)

Fig. 26

QIQLVQS GPELK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK GLKW
MGWINT E TGEPT YTDDFKG RFAFS LVTSATT AYLQI>NNLNED TATF
FCARFIY DPYWG FAYWGQG TLVTV SAASTKG PSVFP LAPSSKS TSGG
TAALGCL VKDYF PEPVTVS WNSGA LTSGVHT FPAVL QSSGLYS LSSV
VTVPSSS LGTQT YICNVNH KPSNT KVDKKVE PKSCD KTHTCPP CPAP
ELLGGPS VFLFP PKPKDTL MISRT PEVTCVV VDVSH EDPEVKF NWYV
DGVEVHN AKTKP REEQYNS TYRVV SVLTVLH QDWLN GKEYKCK VSNK
ALPAPIE KTISK AKGQPRE PQVYT LPPSRDE LTKNQ VSLTCLV KGFY
PSDIAVE WESNG QPENNYK TTPPV LDSDGSF FLYSK LTVDKSR WQQG
NVFSCSV MHEAL HNHYTQK SLSLS PGKSGGG GSGGG GSGGGGS QVQL
VQSGAEV KKPGS SVKVSCK ASGYT FTTYYLH WVRQA PGQGLEW MGWI
YPGNVHA QYNEK FKGRVTI TADKS TSTAYME LSSLR SEDTAVY YCAR
SWEGFPY WGQGT TVTVSSG GGGSG GGGSGGG GSGGG GSDIQMT QSPS
SLSASVG DRVTI TCKASQN VGINV AWYQQKP GKAPK SLISSAS YRYS
GVPSRFS GSGSG TDFTLTI SSLQP EDFATYF CQQYD TYPFTFG QGTK
VEIK (SEQ ID NO:47)

Fig. 27

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAGAT
 CTCTTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTGAAACAGG
 CTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACTGAGACTGGTGAGCCAACA
 TATACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCCACCACTGC
 CTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTCTGTGCTAGAT
 TCATCTATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACTCTGGTCACTGTC
 TCCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCAC
 CTCTGGGGGACACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGA
 CGGTGTCGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCCGGCTGTCTTA
 CAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGG
 CACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGA
 AAGTTGAGCCCAAATCTTG TGACAAAACCTCACACATGCCACCGTGCCAGCACCTGAA
 CTCTTGGGGGGACCGTCAGTCTTCTTCCCCCAAACCCAAGGACACCCCTCATGAT
 CTCCCGGACCCCTGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGG
 TCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGG
 GAGGAGCAGTACAACAGCACGTACCGTGTGGTGCAGCGTCTCACCGTCTTGACCAGGA
 CTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCA
 TCGAGAAAACCATCTCCAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTG
 CCCCCATCCCCGGGATGAGCTGACCAAGAACCAGGTACGCTGACCTGCCTGGTCAAAGG
 CTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACT
 ACAAGACCACGCCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTC
 ACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGA
 GGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCG
 GGGGTGGATCCGTGGAGGGGGCTCCGGCGGTGGCGGGTCCAGGTCCAACCTGGTGACAG
 TCTGGAGCTGAGGTGAAGAAGCCTGGGTCTCAGTGAAGGTGTCCTGCAAGGCTTCTGG
 CTACACTTTCACAACCTACTATTTGCACTGGGTGAGGCAGGCCCCTGGACAGTGCCCTG
 AGTGGATGGGATGGATTTATCCTGGAAATGTTTATGCTCAGTACAATGAGAAGTTCAAG
 GGCAGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGGAGCTCAGCAG
 CCTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGGTTTTCTT
 ACTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGTGGGGCGGATCTGGGGGCGGC
 GGGTCCGGTGGTGGTGGTAGTGACATTGAGATGACCCAGTCTCCTAGCTCCCTGTCCGC
 CTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCCAGTCAGAATGTGGGTATTAATG
 TAGCCTGGTATCAACAGAAACCAGGGAAGGCTCCTAAATCACTGATTTCTCCTCGGCCTCC
 TACCGGTACAGTGGAGTCCCTTCCAGATTGAGCGGCAGTGGATCTGGGACAGATTTTAC
 TCTACCATCAGCAGCCTCCAGCCTGAAGACTTCGCAACCTATTTCTGTGACGAATATG
 ACACCTATCCATTACGTTCCGGCTGCGGTACCAAGGTGGAGATCAAATGA
 (SEQ ID NO:48)

Fig. 28

QIQLVQS GPELK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK GLK
WMGWINT ETGEP TYTDDFK GRFAF SLVTSAT TAYLQ INNLNNE DTA
TFFCARF IYDPY WGFAYWG QGTLV TVSAAST KGPSV FPLAPSS KST
SGGTAAL GCLVK DYFPEPV TVSWN SGALTSG VHTFP AVLQSSG LYS
LSSVVTV PSSSL GTQTYIC NVNHK PSNTKVD KKVEP KSCDKTH TCP
PCPAPEL LGGPS VFLFPPK PKDTL MISRTPE VTCVV VDVSHED PEV
KFNWYVD GVEVH NAKTKPR EEQYN STYRVVS VLTVL HQDWLNG KEY
KCKVSNK ALPAP IEKTISK AKGQP REPQVYT LPPSR DELTKNQ VSL
TCLVKGF YPSDI AVEWESN GQPEN NYKTTTP VLDSD GSFFLYS KLT
VDKSRWQ QGNVF SCSVMHE ALHNH YTQKSLS LSPGK SGGGGSG GGG
SGGGGSQ VQLVQ SGAEVKK PGSSV KVSCKAS GYTFT TYYLHWV RQA
PGQCLEW MGWIY PGNVHAQ YNEKF KGRVTIT ADKST STAYMEL SSL
RSED TAV YYCAR SWEGFPY WGQGT TVTVSSG GGGSG GGGSGGG GSD
IQMTQSP SSLSA SVGDRVT ITCKA SQNVGIN VAWYQ QKPGKAP KSL
ISSASYR YSGVP SRFSGSG SGTDF TLTISL QPEDF ATYFCQQ YDT
YPFTFGC GTKVE IK (SEQ ID NO:49)

Fig. 29

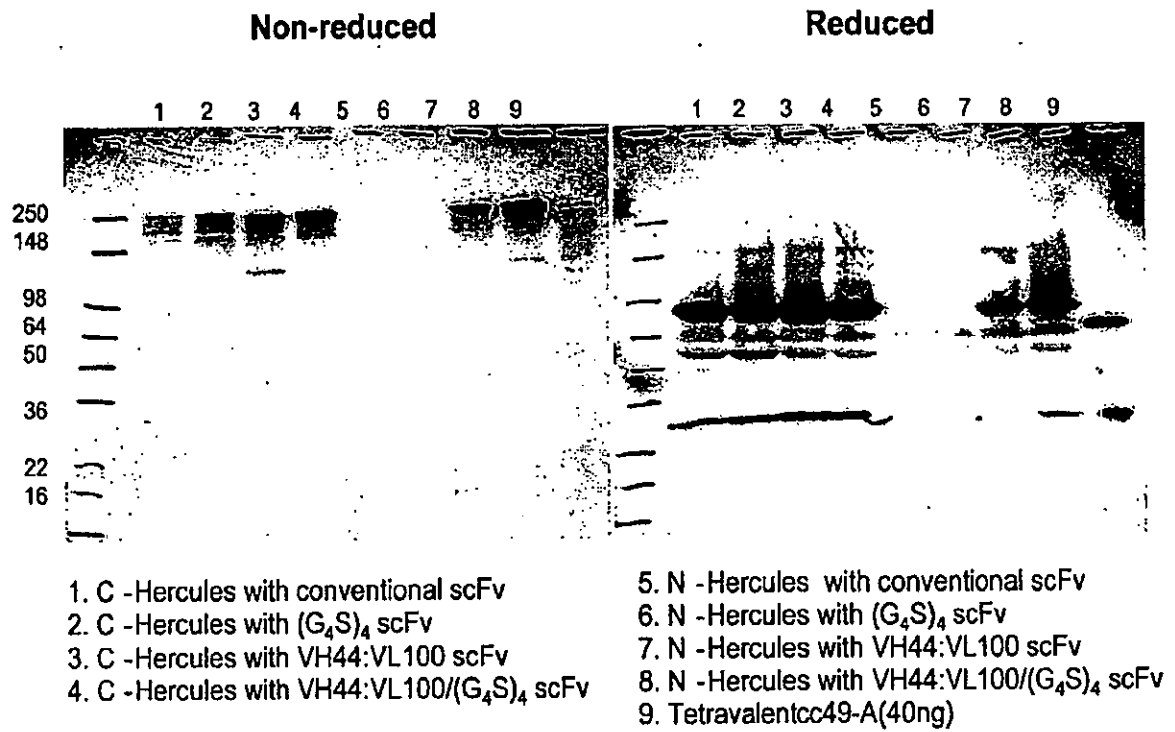
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 CAGGCTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACACTGAGACTGGTGAG
 CCAACATATACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCC
 ACCACTGCCTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTC
 TGTGCTAGATTTCATCTATGATCCTTATTTGGGGGTTTGCTTACTGGGGCCAGGGGACT
 CTGGTCACTGTCTCCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCC
 TCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTAC
 TTCCCCGAACCGGTGACGGTGTCTGGAACCTCAGGCGCCCTGACCAGCGGCGTGAC
 ACCTTCCCGGTGTCTTACAGTCTTCAGGACTCTACTCCCTCAGCAGCGTGGTGACC
 GTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCC
 AGCAACACCAAGGTGGACAAGAAAGTTGAGSCCAAATCTTGTGACAAAACCTCACACA
 TGCCACACCGTGCCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCTCTTCCCC
 CCAAACCCAAGGACACCCCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGTG
 GTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG
 GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGT
 GTGGTCAGCGTCTCACCGTCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAG
 TGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAGCC
 AAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTG
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 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACATAAAGACCACGCCTCCC
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 CACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCGGGGGTGGATCC
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 GAGGTGAAGAAGCCTGGGTCTCAGTGAAGGTGTCTGCAAGGCTTCTGGCTACACT
 TTCACAACCTACTATTTCGACTGGGTGAGGCAGGCCCTGGACAGTGCCCTTGAGTGG
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 AGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGGAGCTCAGCAGC
 CTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGGTTTTCTT
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 GGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCCTCCAGCCTGAAGAC
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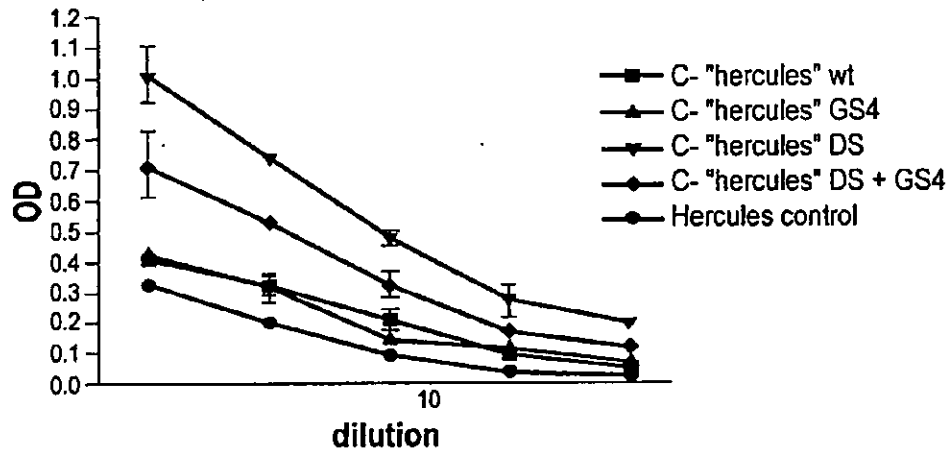
Fig. 30

QIQLVQS GPCLK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK GLK
WMGWINT ETGEP TYTDDFK GRFAF SLVTSAT TAYLQ INNLNNE DTA
TFFCARF IYDPY WGFAYWG QGTLV TVSAAST KGPSV FPLAPSS KST
SGGTAAL GCLVK DYFPEPV TVSWN SGALTSG VHTFP AVLQSSG LYS
LSSVTV PSSSL GTQTYIC NVNHK PSNTKVD KKVEP KSCDKTH TCP
PCPAPEL LGGPS VFLFPPK PKDTL MISRTPE VTCVV VDVSHED PEV
KFNWYVD GVEVH NAKTKPR EEQYN STYRVVS VLTVL HQDWLNG KEY
KCKVSNK ALPAP IEKTISK AKGQP REPQVYT LPPSR DELTKNQ VSL
TCLVKGF YPSDI AVEWESN GQPEN NYKTPP VLDSD GSFFLYS KLT
VDKSRWQ QGNVF SCSVMHE ALHNH YTQKSL S LSPGK SGGGGSG GGG
SGGGGSQ VQLVQ SGAEVKK PGSSV KVSCKAS GYTFT TYYLHWV RQA
PGQCLEW MGWIY PGNVHAQ YNEKF KGRVTIT ADKST STAYMEL SSL
RSED TAV YYCAR SWEGFPY WGQGT TVTVSSG GGGSG GGGSGGG GSG
GGGSDIQ MTQSP SSLSASV GDRVT ITCKASQ NVGIN VAWYQQK PGK
APKSLIS SASYR YSGVPSR FSGSG SGTDFTL TISSL QPEDFAT YFC
QQYDTYP FTFGC GTKVEIK

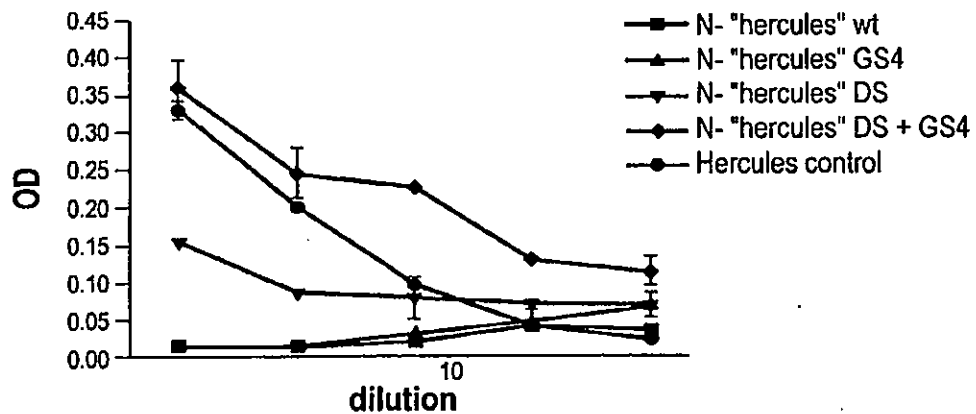
(SEQ ID NO:51)

Fig. 31

*Fig. 32*

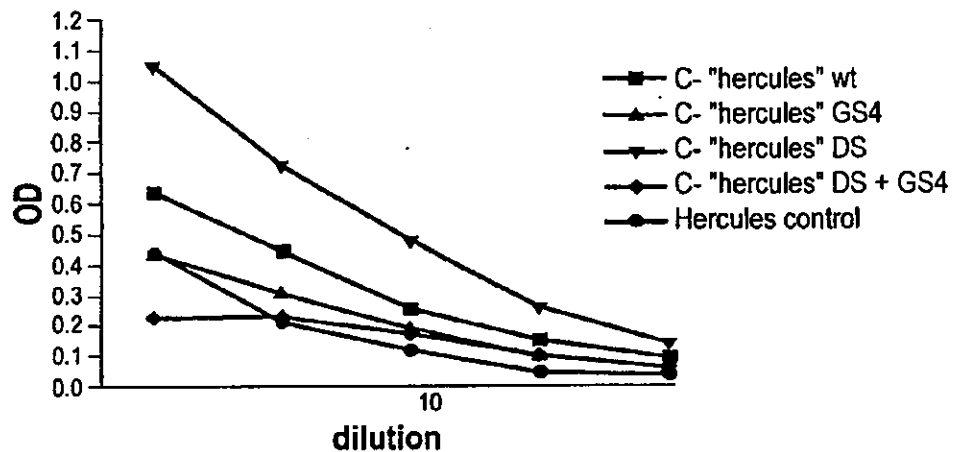
LTBR-Ig Binding Activity of C-ter "Hercules" constructs

Coated plate with 2ug/ml LTBR-Ig
2°-Ab anti-hu Kappa-HRP(10,000)

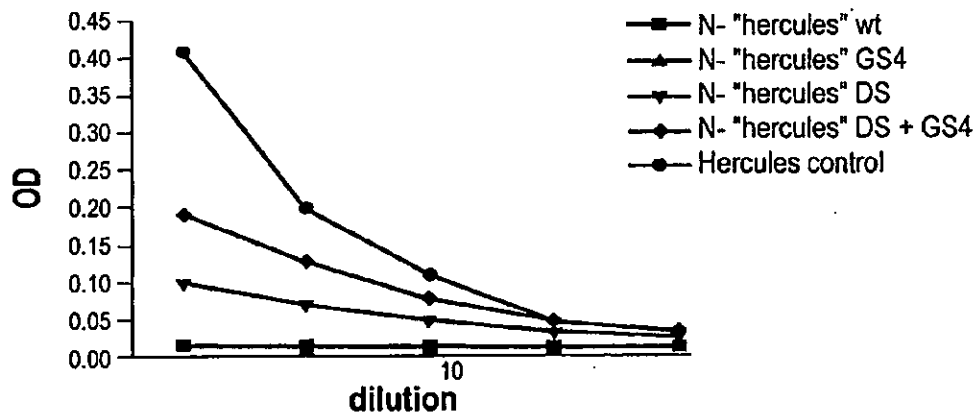
*Fig. 33A***LTBR-Ig Binding Activity of N-ter "Hercules" constructs**

Coated plate with 2ug/ml LTBR-Ig
2°-Ab anti-hu Kappa-HRP(10,000)

Fig. 33B

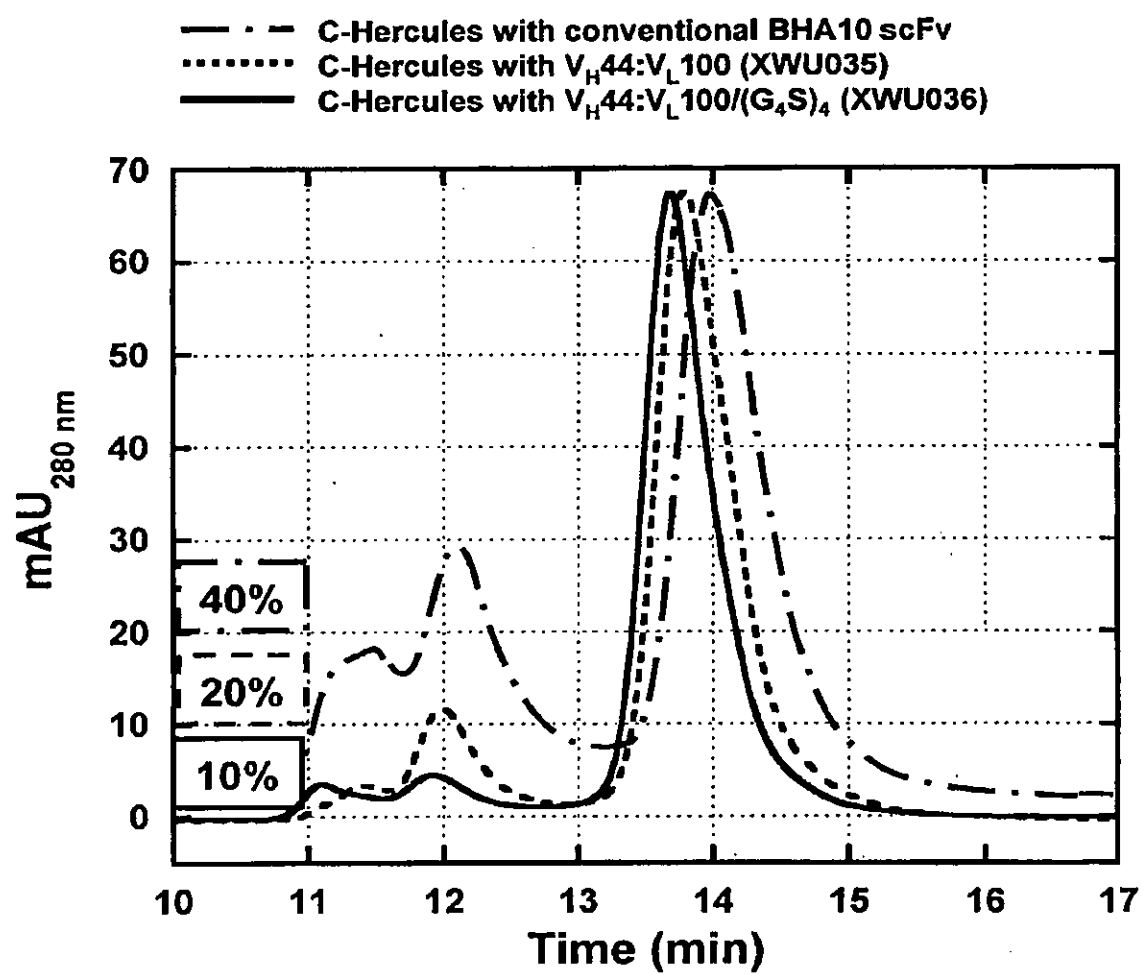
TRAIL-R2 Binding Activity of C-ter "Hercules" constructs

Added 100ng/ml TRAIL-R2/F c/His to Ni-NTA HisSorb plate
2°-Ab anti-hu Kappa-HRP(10,000)

*Fig. 34A***TRAIL-R2 Binding Activity of N-ter "Hercules" constructs**

Added 100ng/ml TRAIL-R2/F c/His to Ni-NTA HisSorb plate
2°-Ab anti-hu Kappa-HRP(10,000)

Fig. 34B

*Fig. 35*

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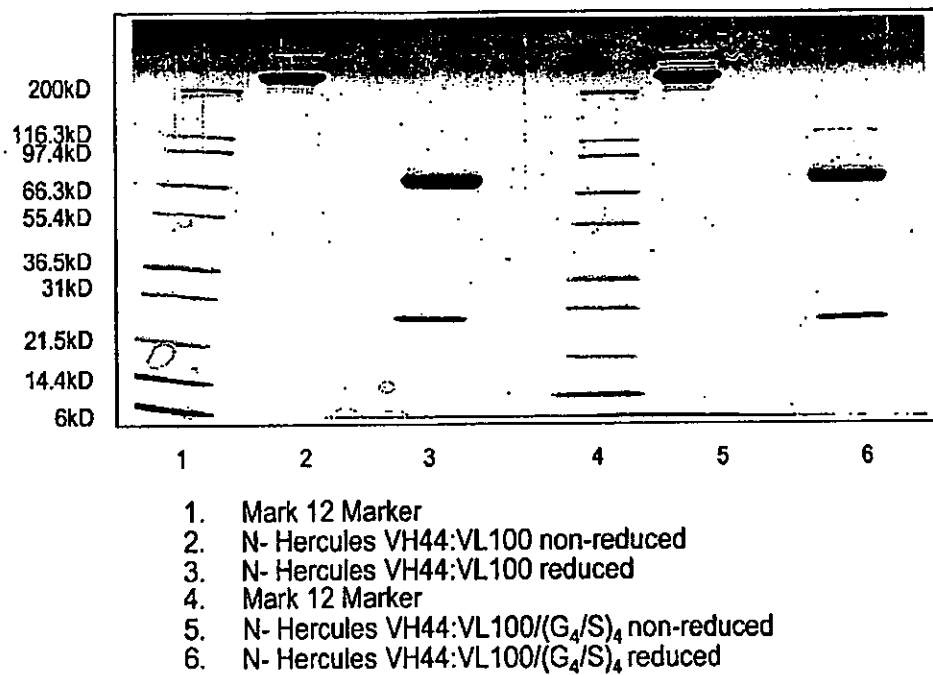


Fig. 36A

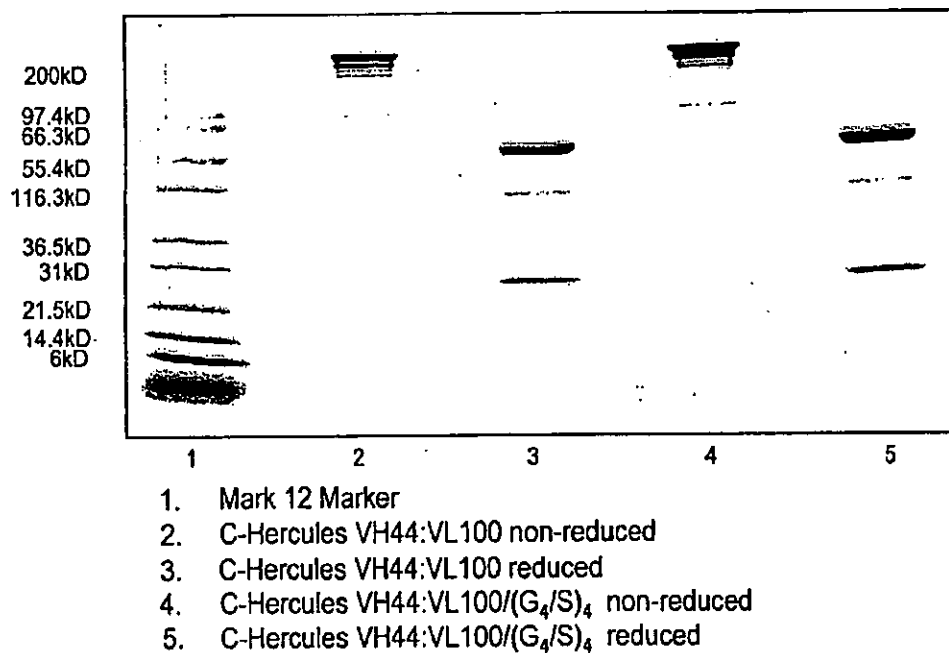


Fig. 36B

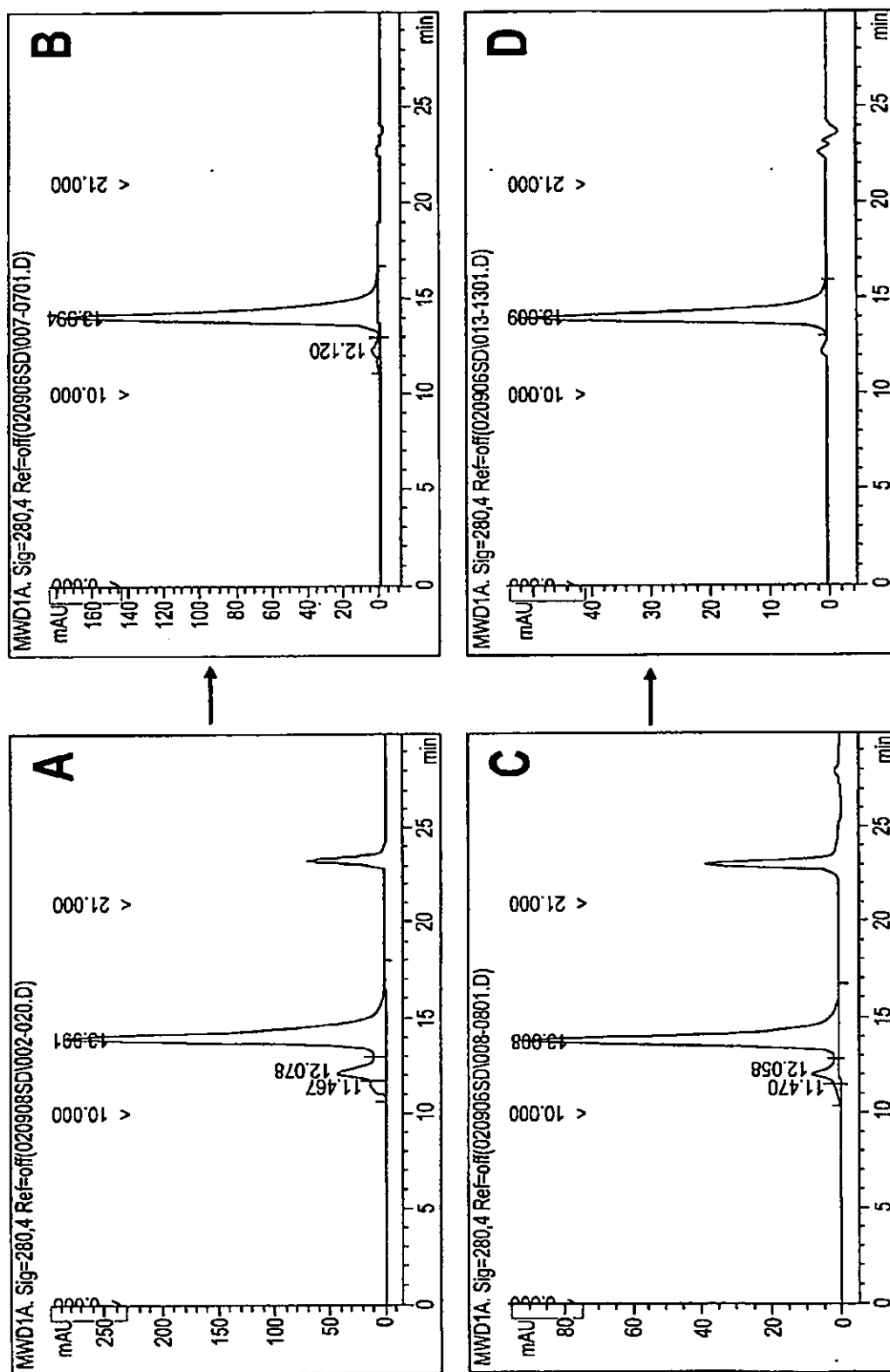


Fig. 37

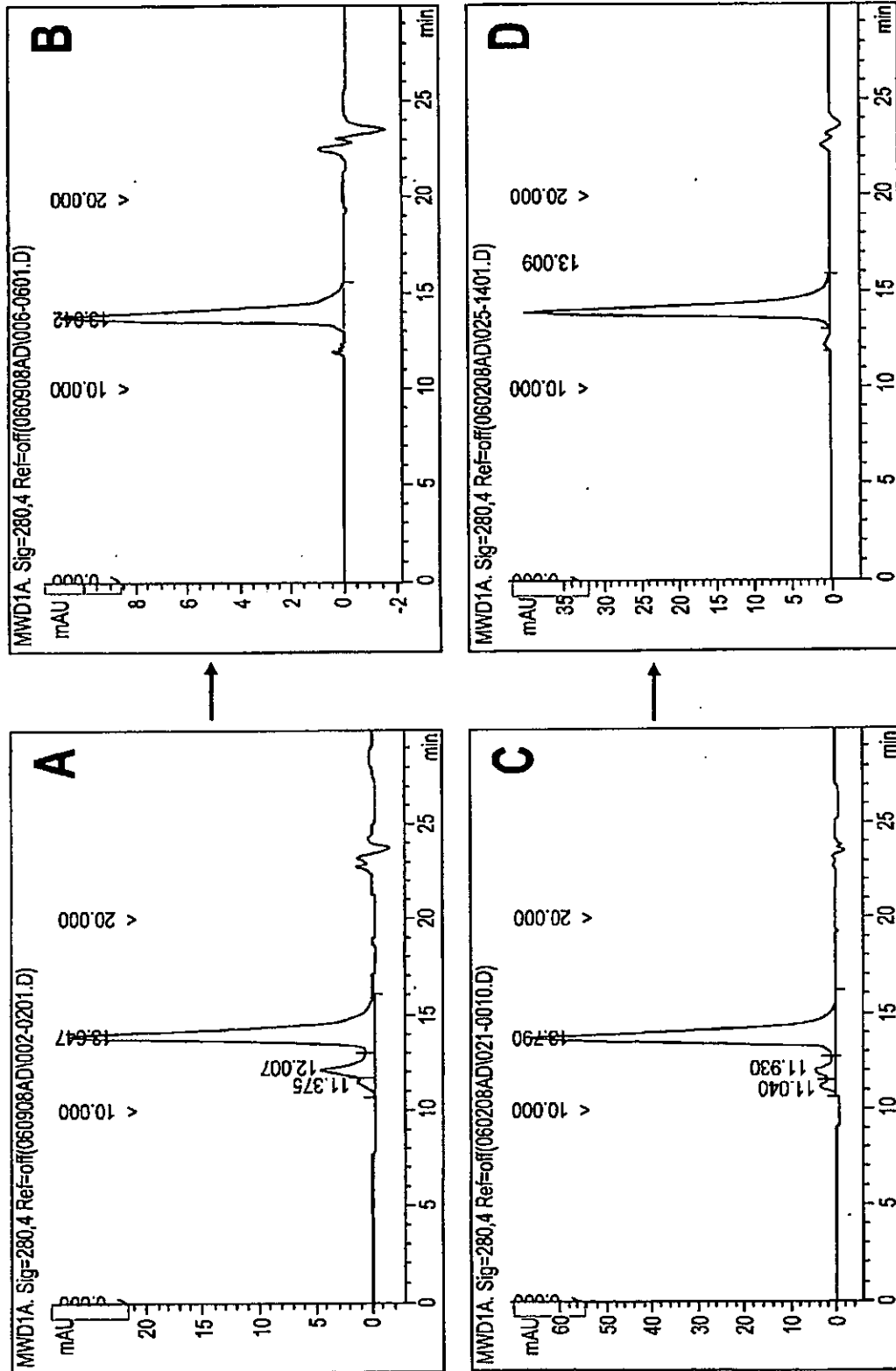
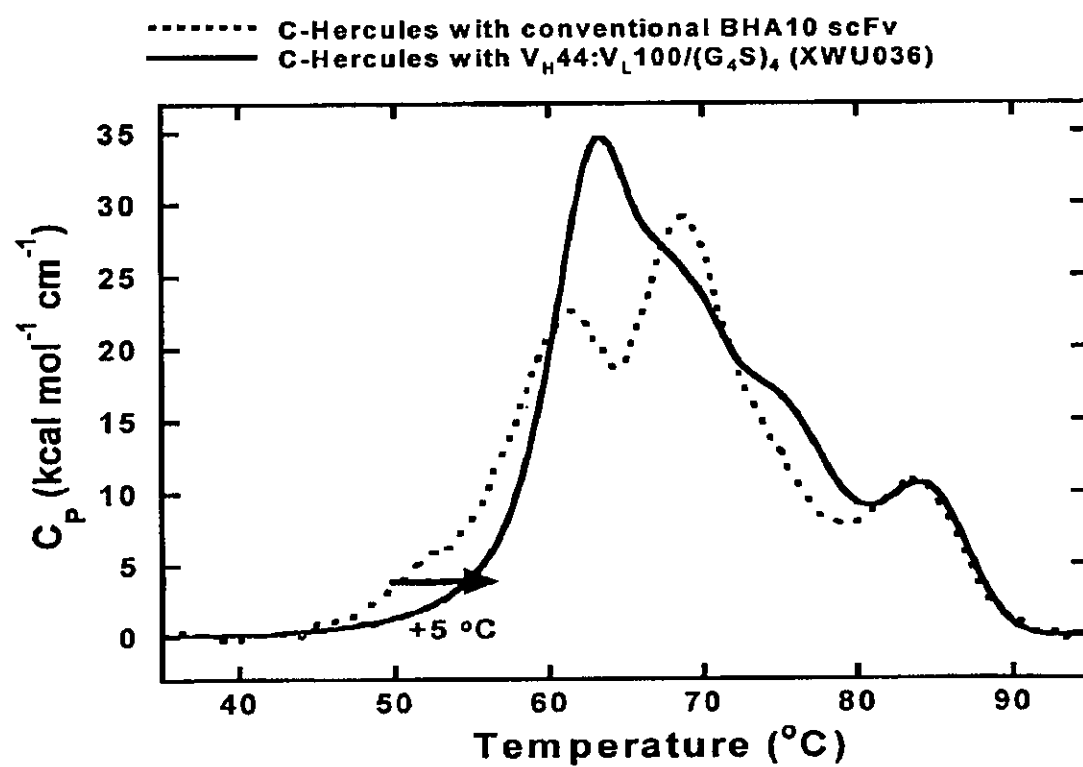


Fig. 38

*Fig. 39*

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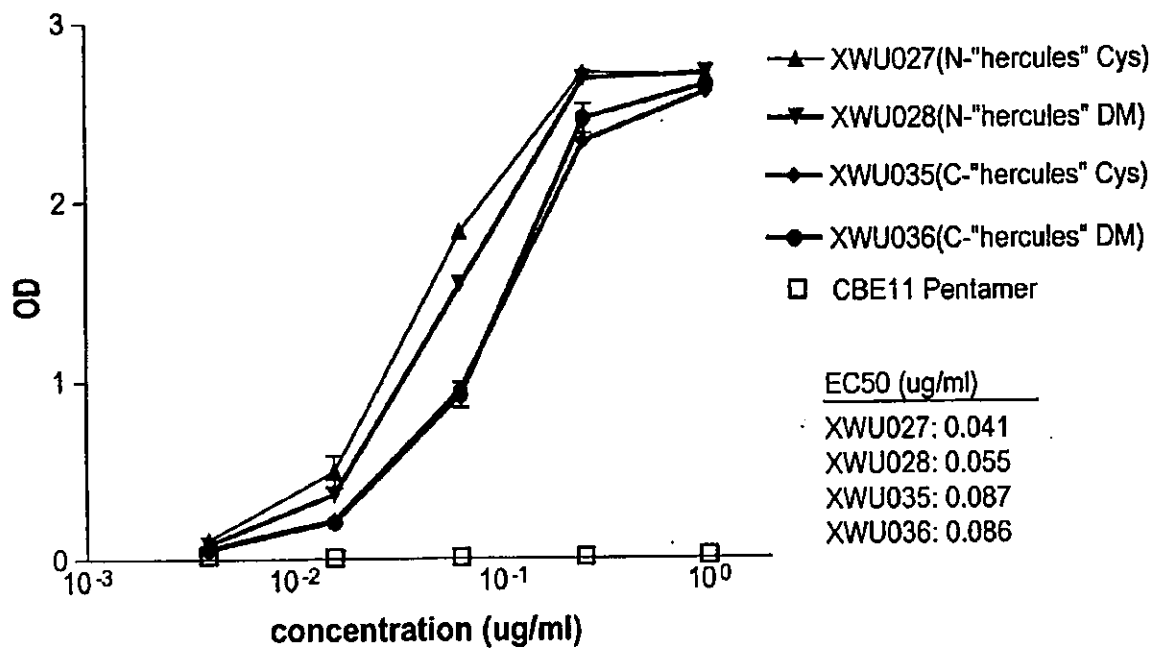


Fig. 40

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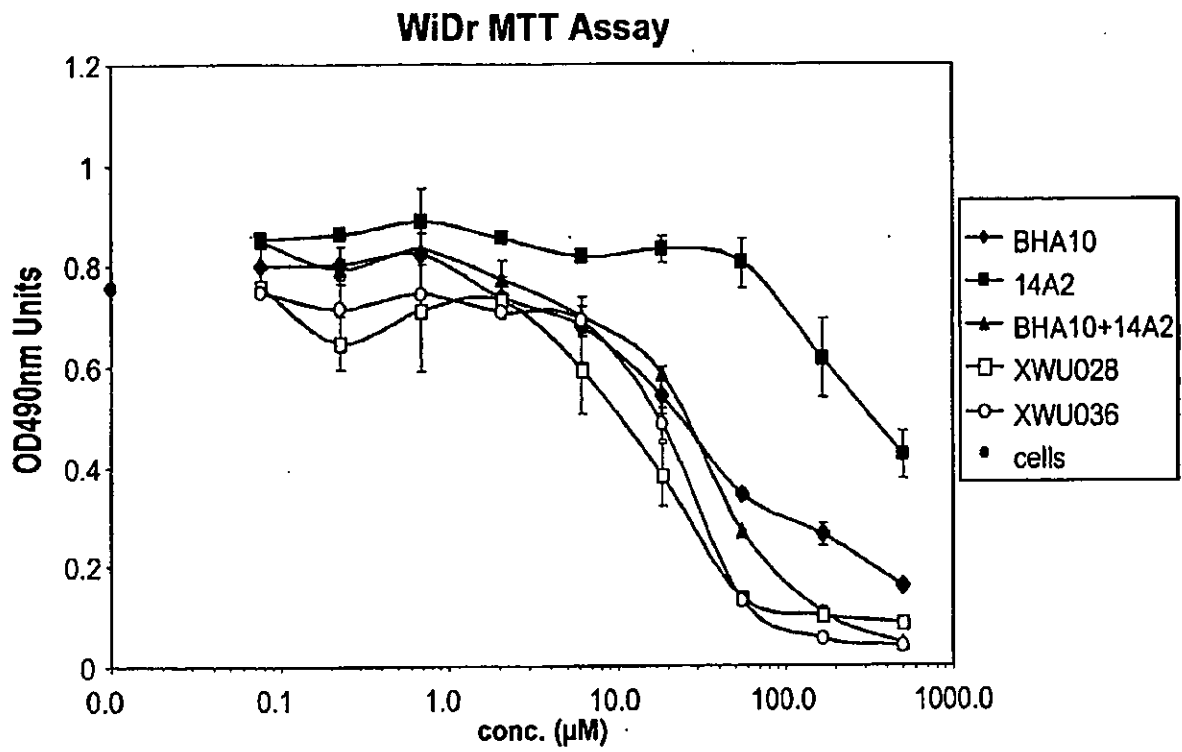


Fig. 41A

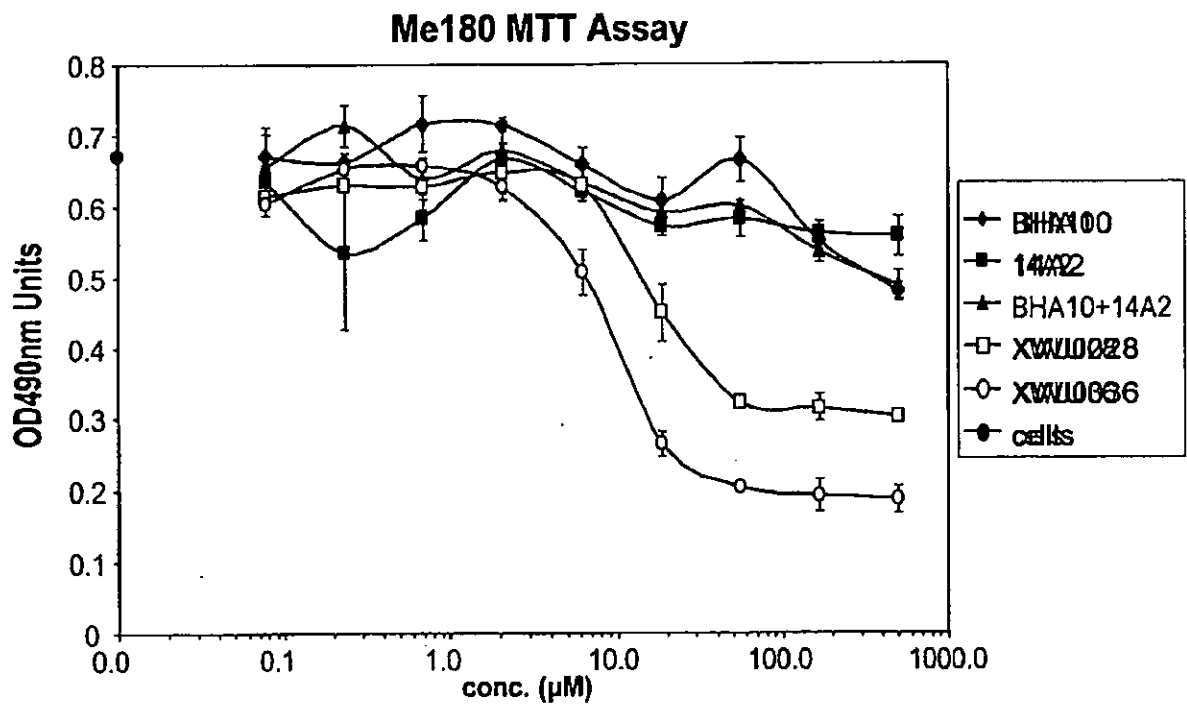


Fig. 41B

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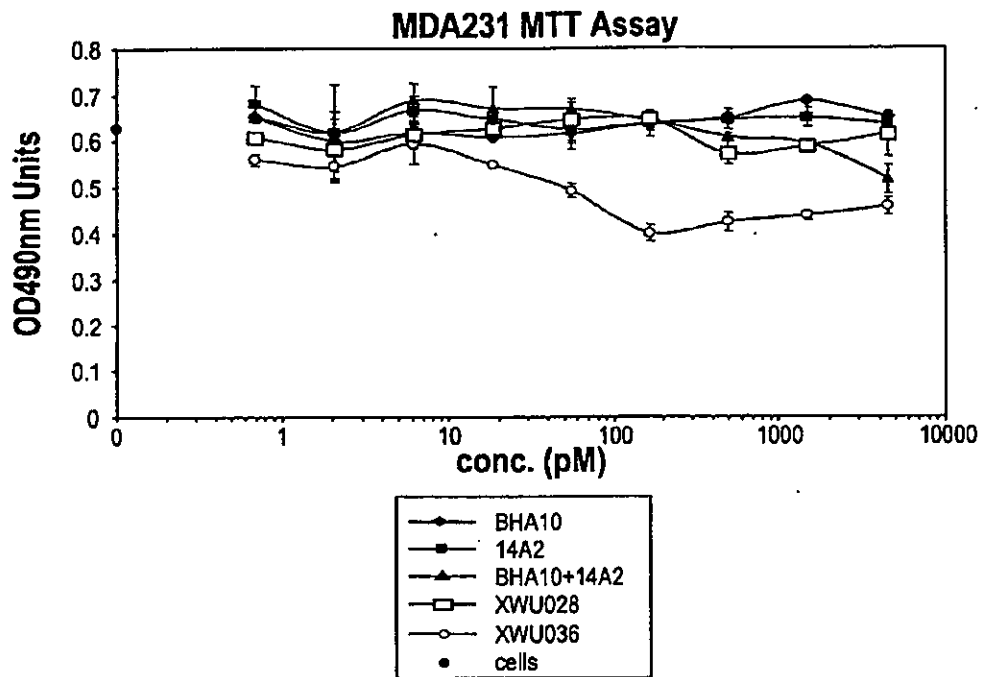


Fig. 41C

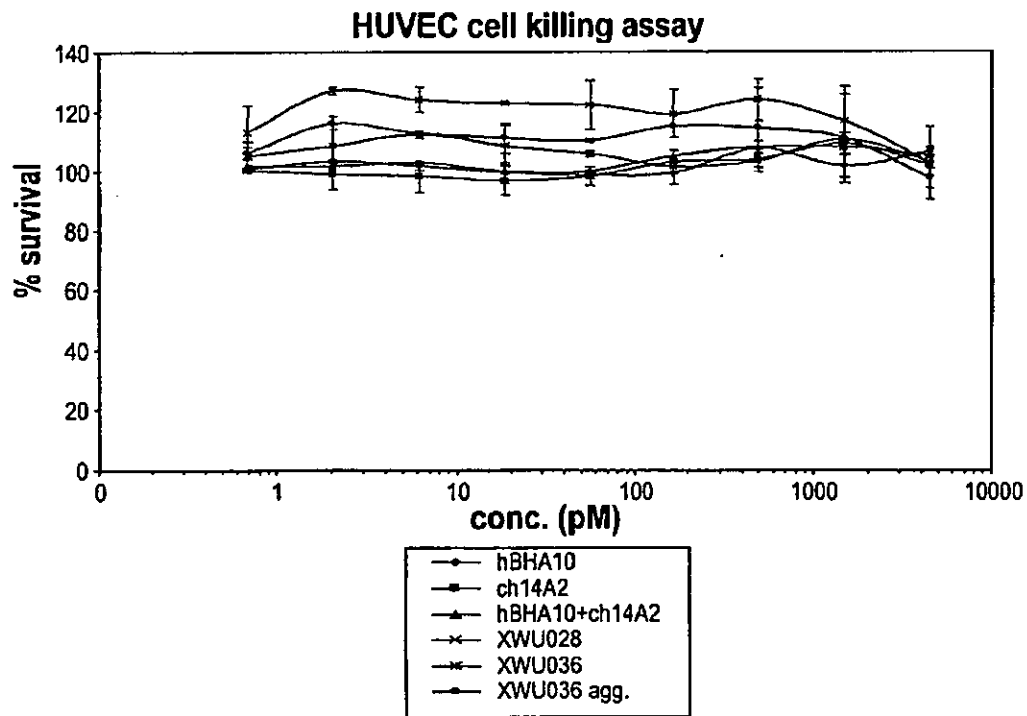
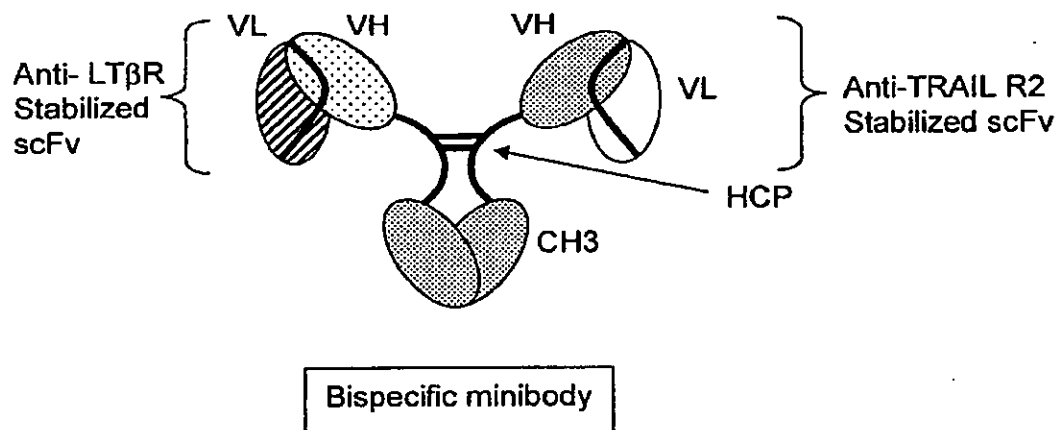
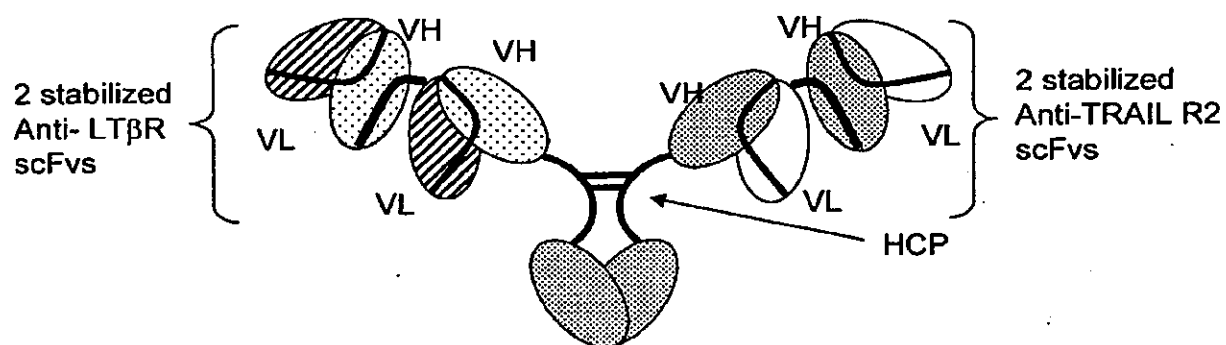


Fig. 41D



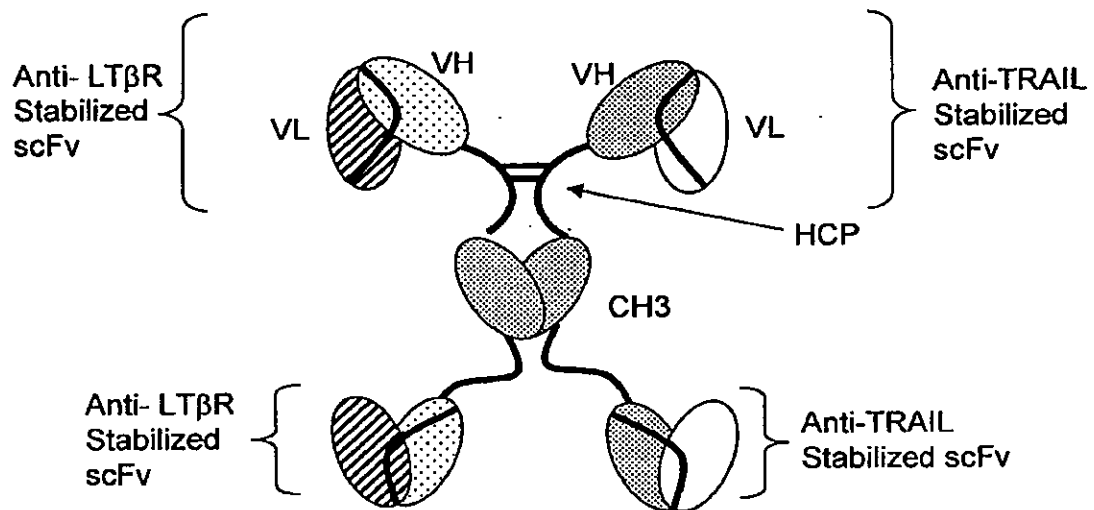
V = Variable
 C = Constant
 L = Light
 H = Heavy
 HCP = Hinge Connecting Peptide
 = (G₄S)₄ linker
 = (G₄S)₄G₃AS flexible linker

Fig. 42



Stabilized 2 sc(Fv)₂ Bispecific Tetravalent minibody
(Stabilized Bispecific N-scFv tetravalent minibody)

Fig. 43



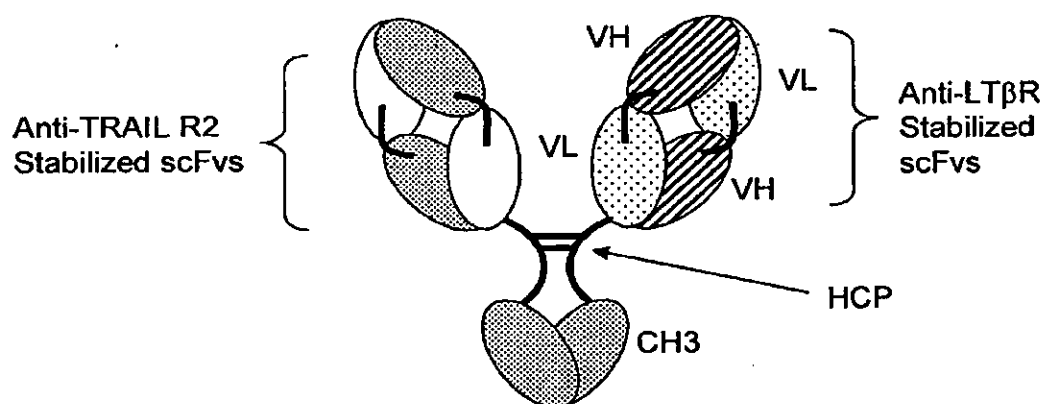
Stabilized 2 sc(Fv)2 Bispecific Tetravalent Minibody
(Stabilized Bispecific C-scFv tetravalent minibody)

V = Variable
C = Constant
L = Light
H = Heavy
HCP = Hinge Connecting Peptide

λ = (G₄S)₄ flexible linker

λ = (G₄S)₄G₃AS flexible linker

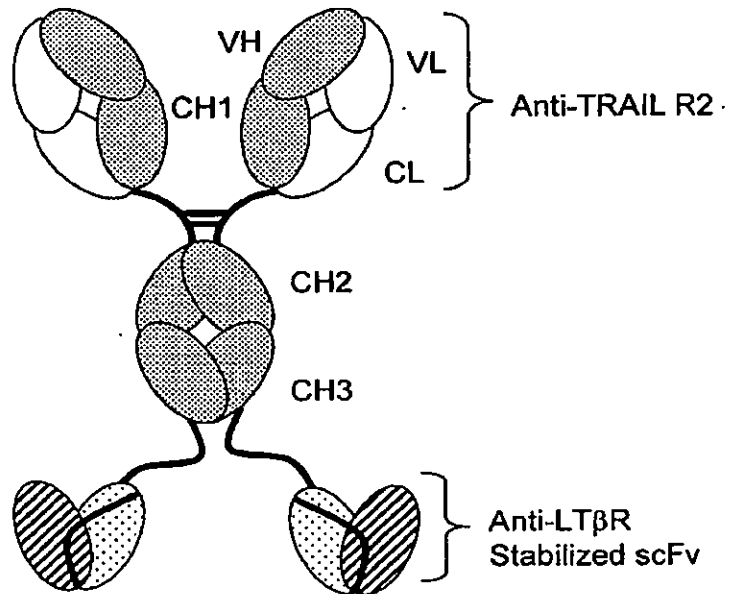
Fig. 44



Stabilized Bispecific
diabody

V = Variable
C = Constant
L = Light
H = Heavy
HCP = Hinge Connecting Peptide
J = (Gly4Ser) linker

Fig. 45

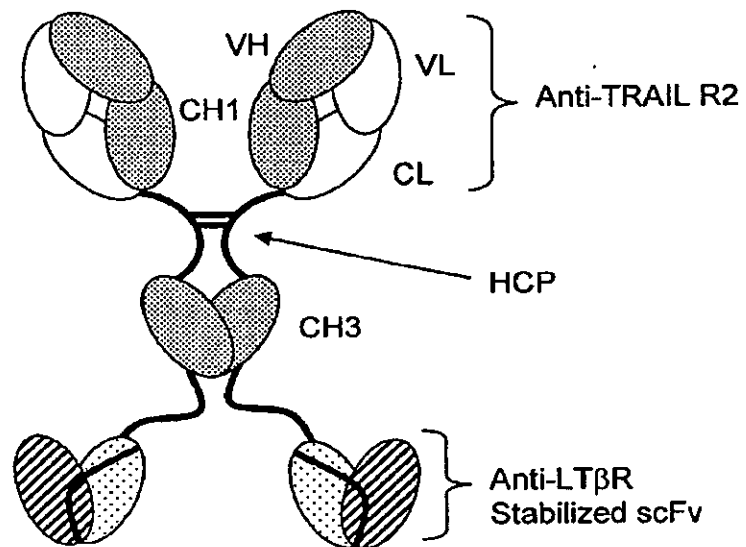


Stabilized Bispecific sc(Fv)₂ Tetraivalent Antibody
(Stablized Bispecific C-scFv Tetraivalent Antibody)

V = Variable
C = Constant
L = Light
H = Heavy
HCP = Hinge Connecting Peptide

= (G₄S)₄ linkers

Fig. 46

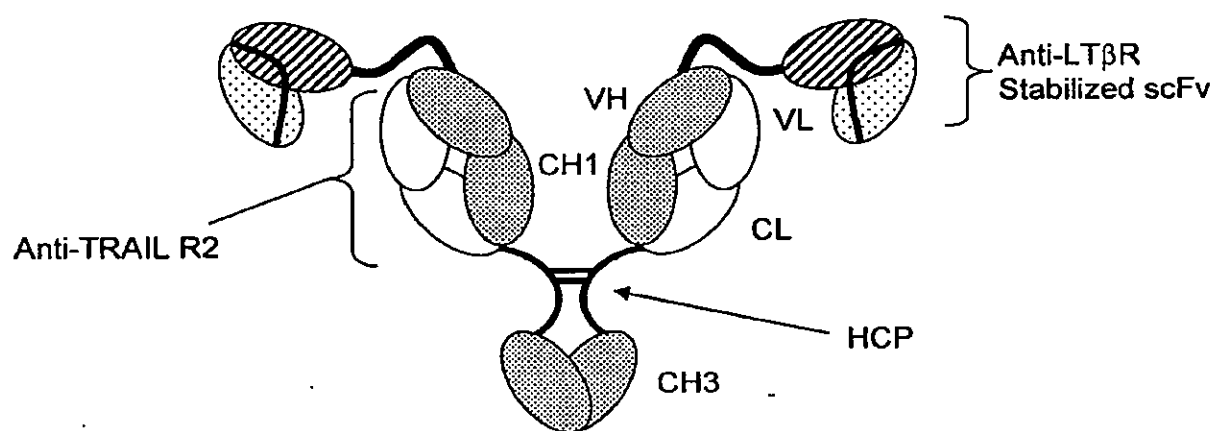


Stabilized sc(Fv)₂ Tetraivalent CH₂ Domain-Deleted Bispecific Antibody
(Stabilized C-scFv Tetraivalent CH₂ Domain- Deleted Bispecific Antibody)
bispecific C-scFv Tetraivalent CH₂ Domain Deleted antibody)

V = Variable
C = Constant
L = Light
H = Heavy
HCP = Hinge Connecting Peptide

 = (G₄S)₄ linkers

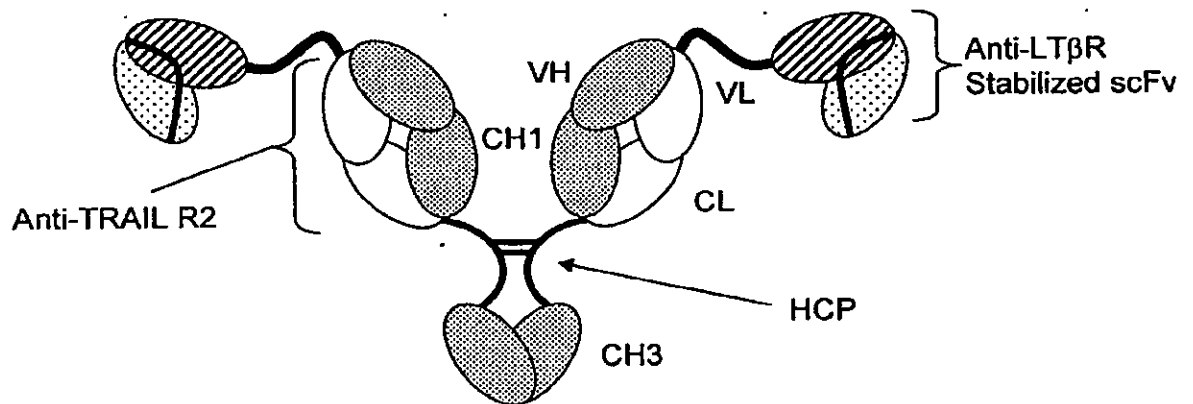
Fig. 47



Stabilized N_H-scFv Tetraivalent CH2 Domain-Deleted Bispecific Antibody

V = Variable
 C = Constant
 L = Light
 H = Heavy
 HCP = Hinge Connecting Peptide
 = (G₄S)₄ linker
 = (G₄S)₄G₃AS flexible linker

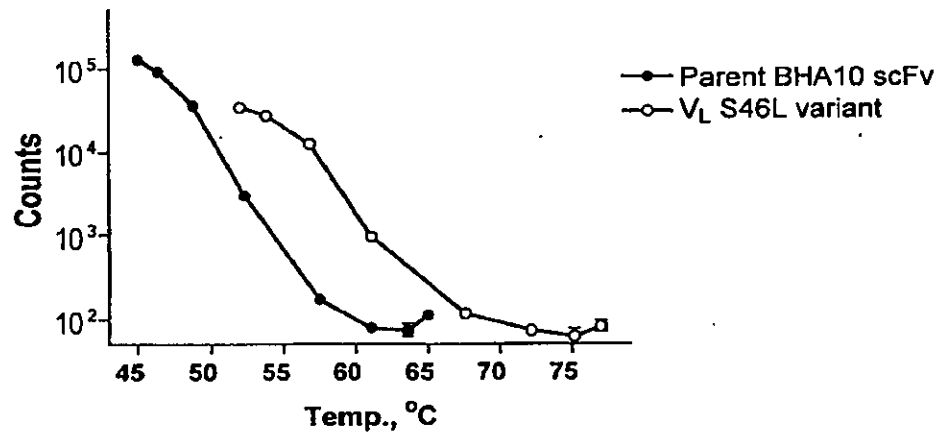
Fig. 48



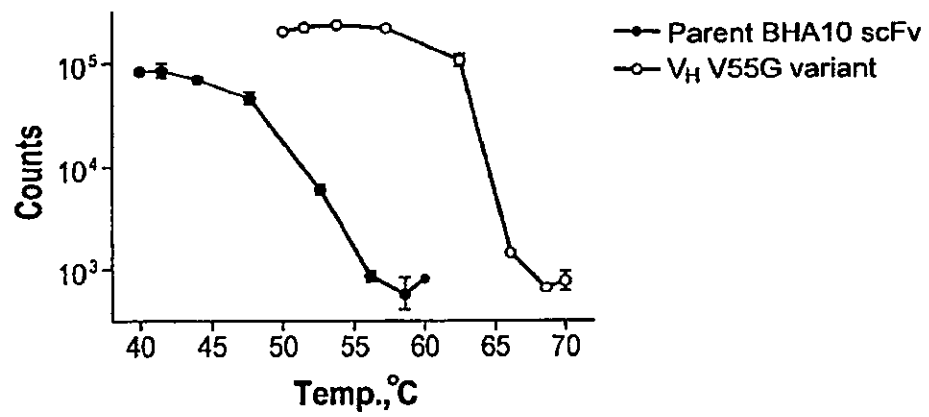
V = Variable
 C = Constant
 L = Light
 H = Heavy
 HCP = Hinge Connecting Peptide
 = (G₄S)₄ linker
 = (G₄S)₄G₃AS flexible linker

Fig. 49

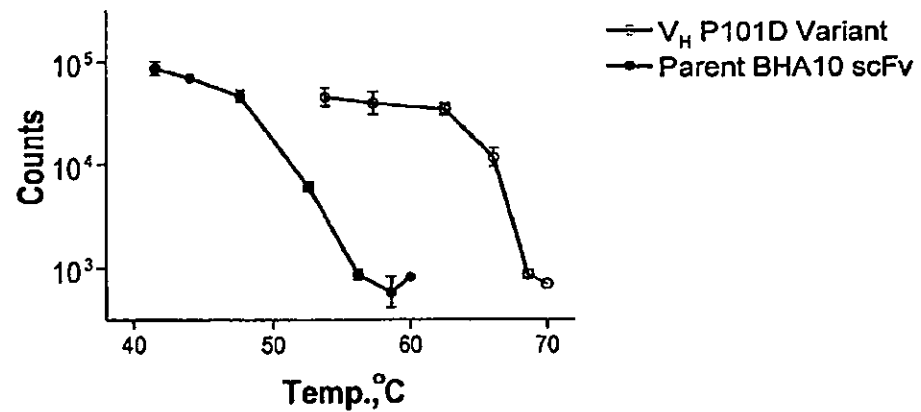
A.

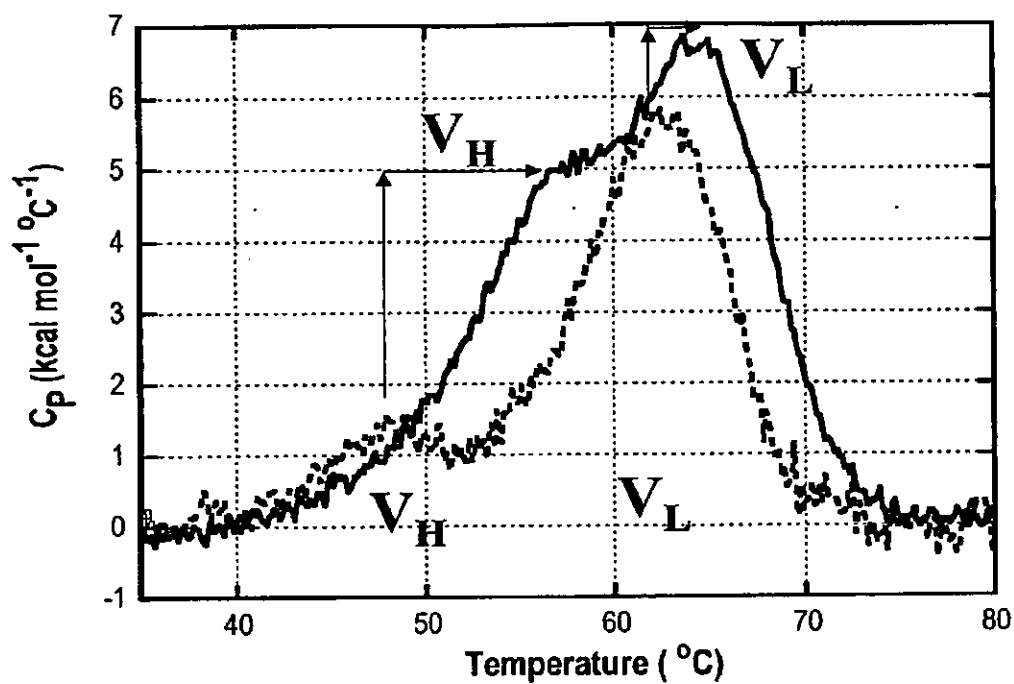
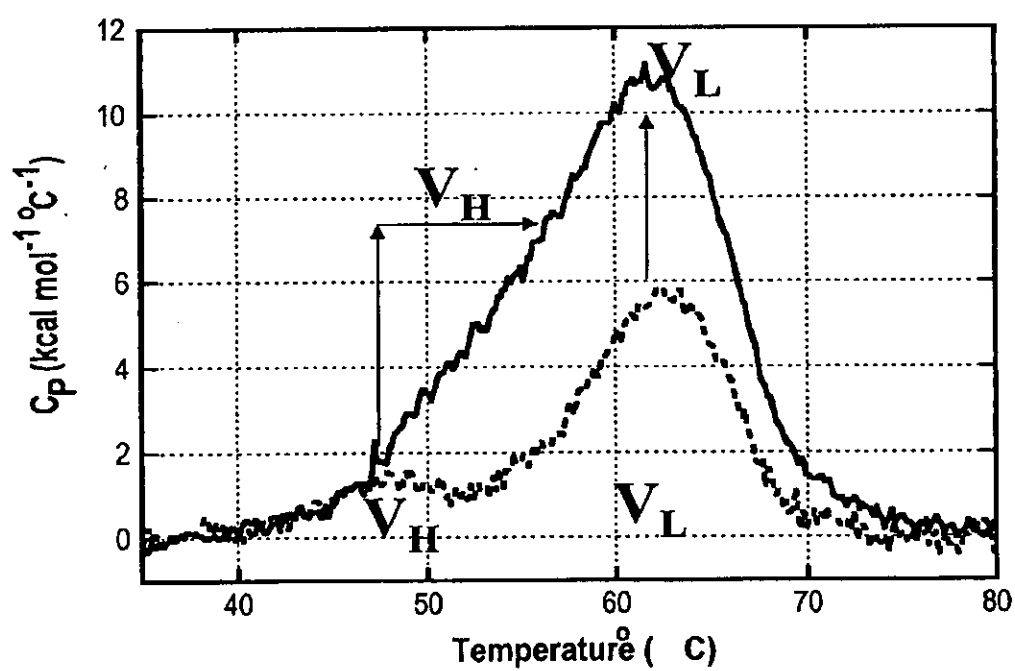


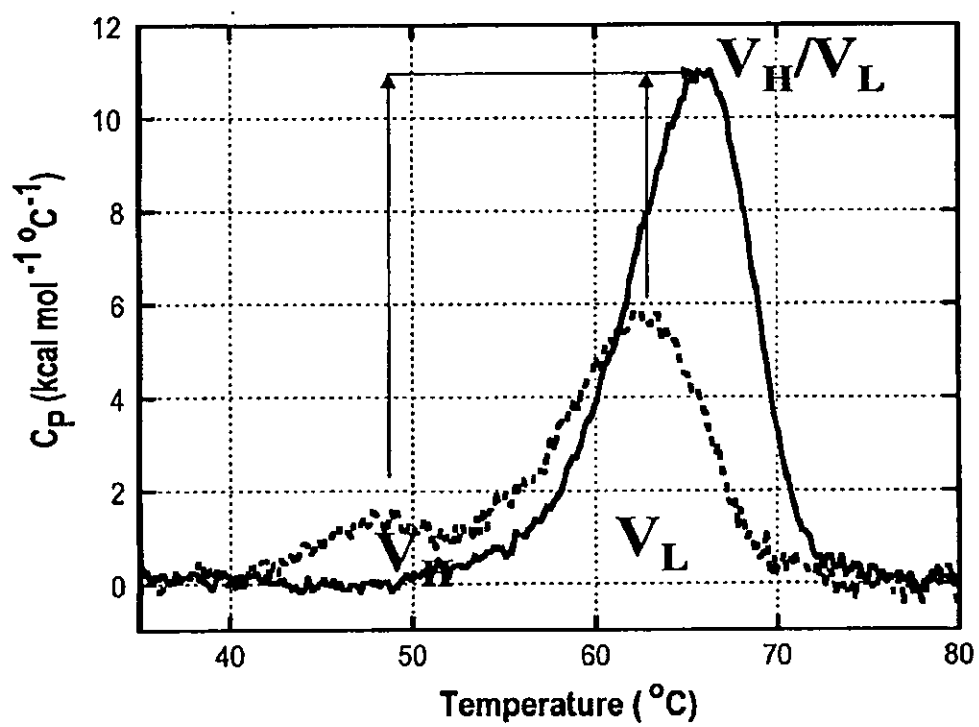
B.

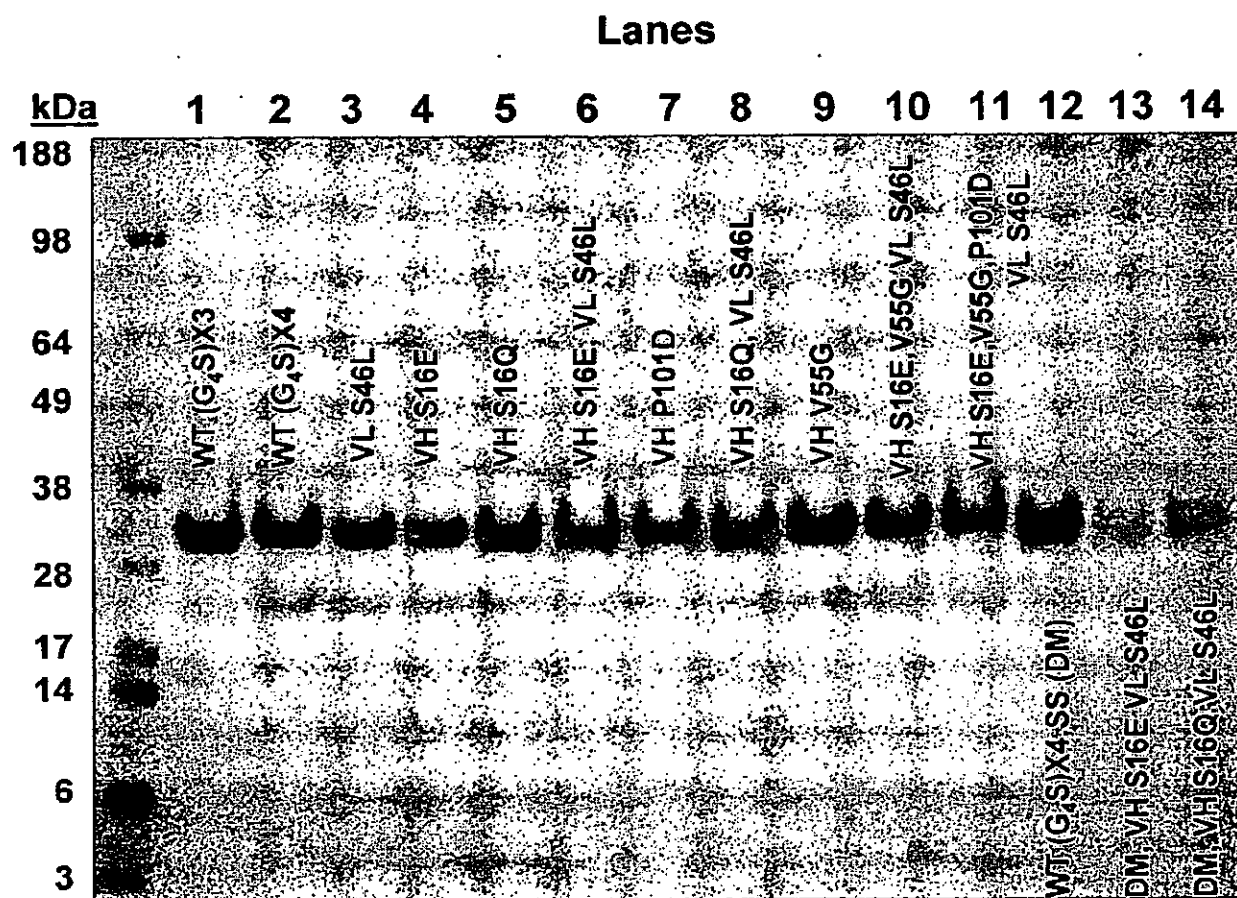


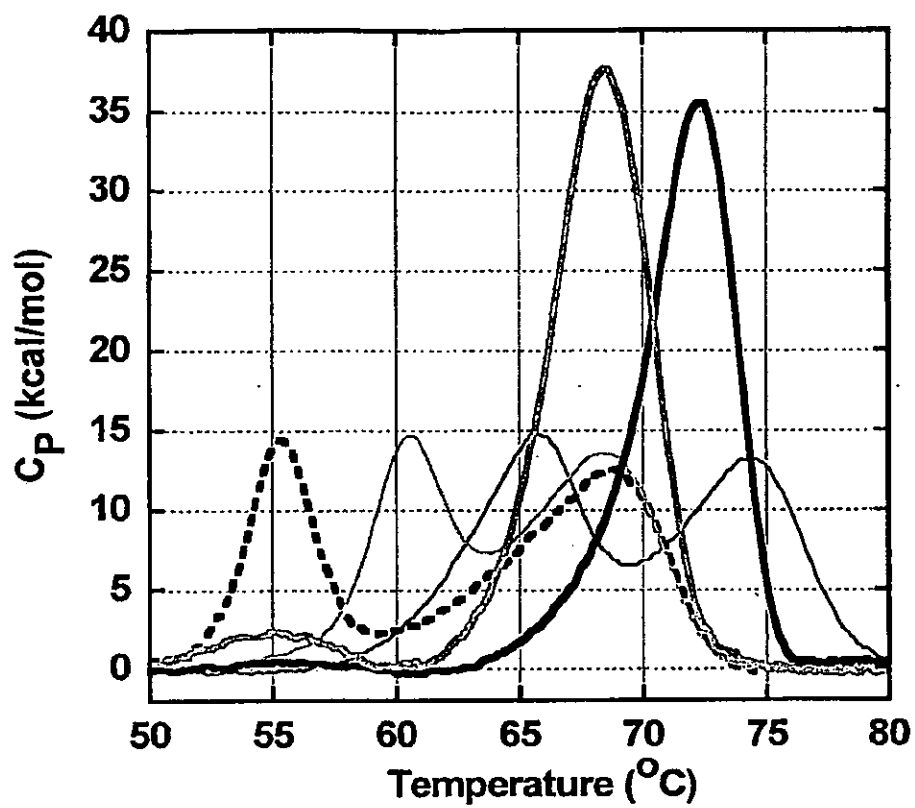
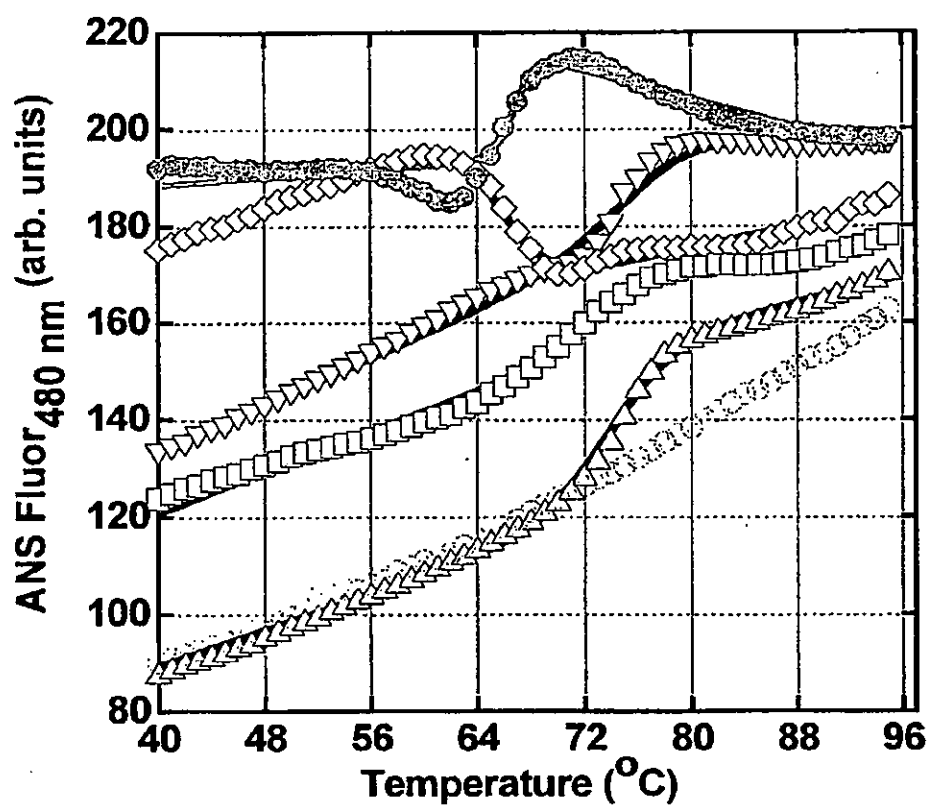
C.

*Fig. 50*

*Fig. 51A**Fig. 51B*

*Fig. 52*

*Fig. 53*

*Fig. 54A**Fig. 54B*

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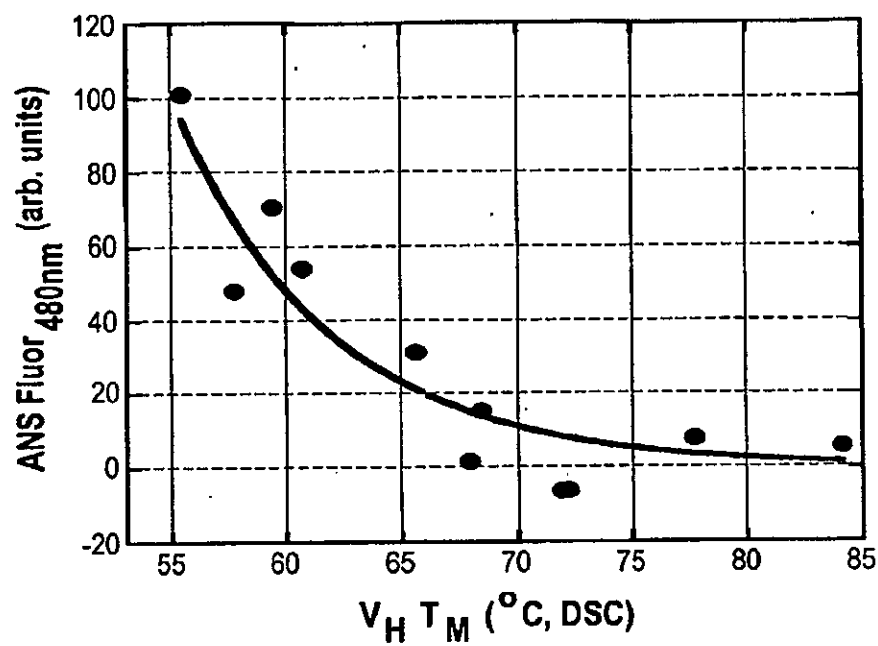


Fig. 55A

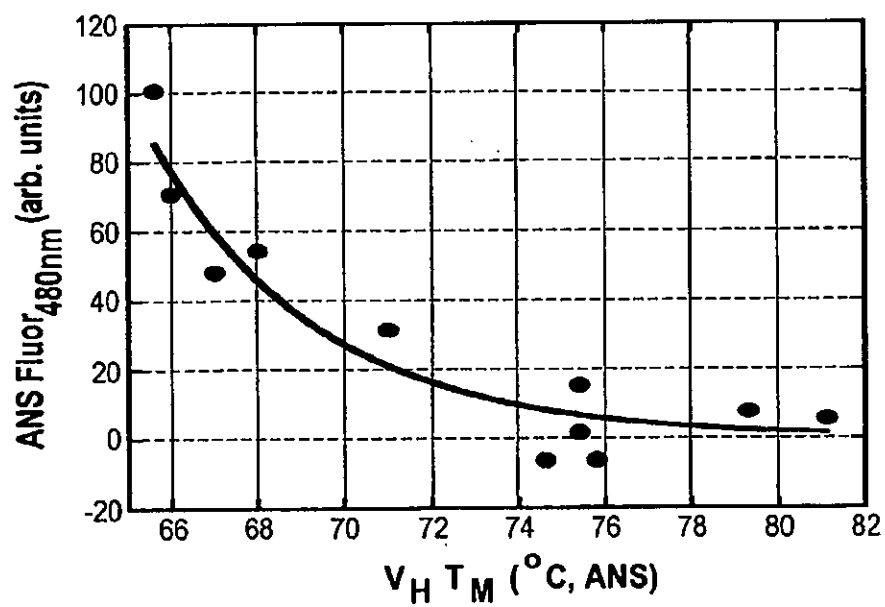


Fig. 55B

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———— DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\081006~1\047-1601.D)
-----*DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\070206~1\004-0401.D)
.....*DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\060906~1\S2000001.D)
-----*DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\052206SP\004-0401.D)
-----*DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\051606SP\004-0401.D)
.....*DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\051006~2\007-0301.D)

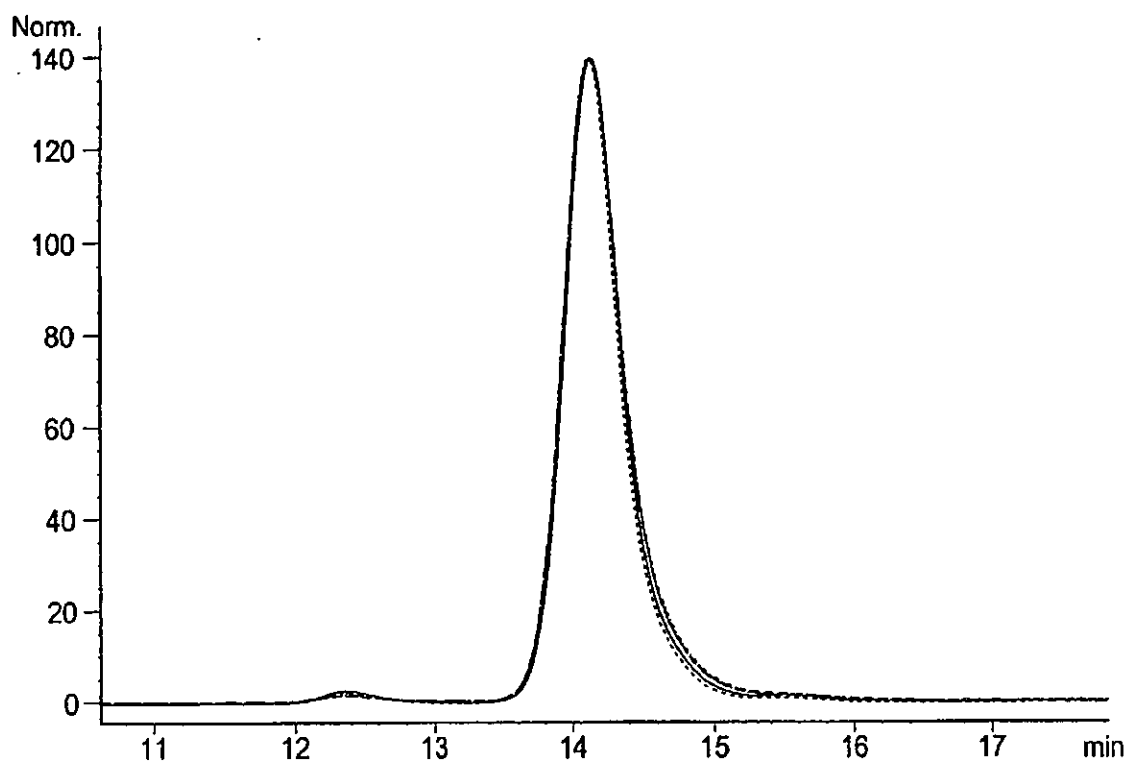


Fig. 56A

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———— DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\081006-1\051-2001.D)
----- *DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\070206-1\006-0601.D)
..... *DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\060906-1\S2000003.D)
----- *DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\052206SP\006-0601.D)
----- *DAD1 E, Sig=280,16 Ref=360,100 (SAM\SEC\051606SP\006-0601.D)
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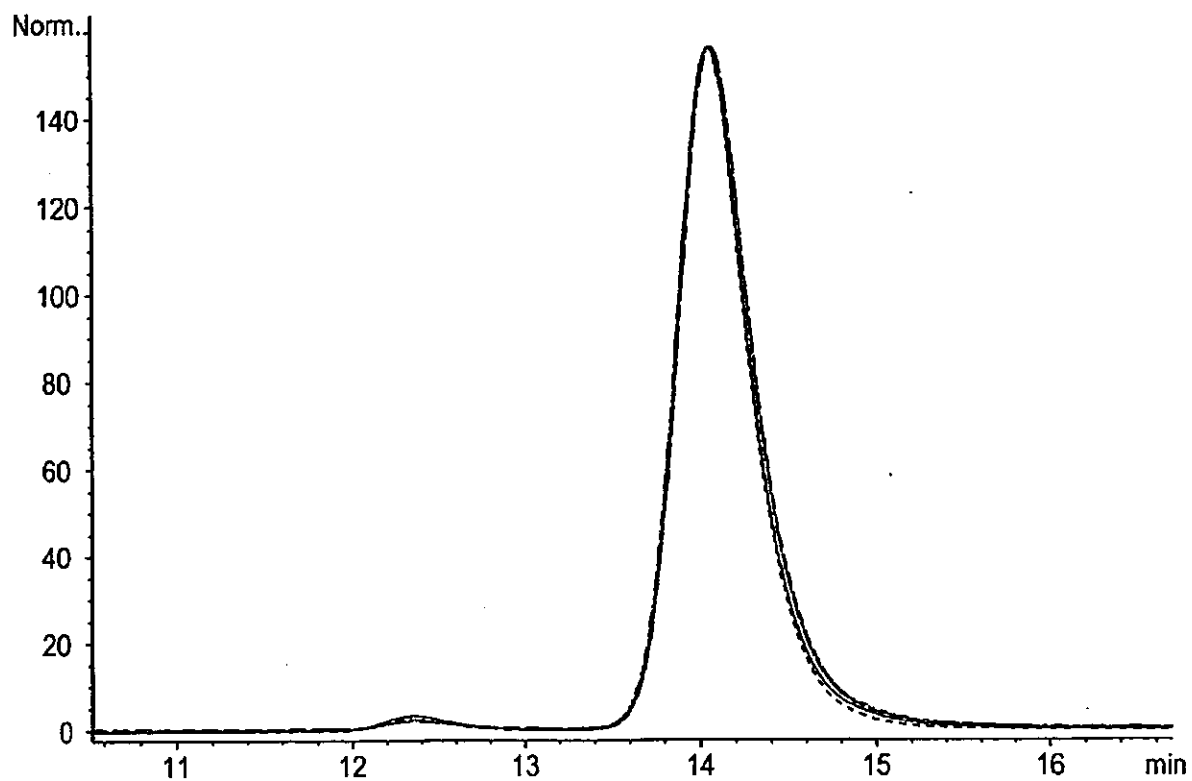


Fig. 56B

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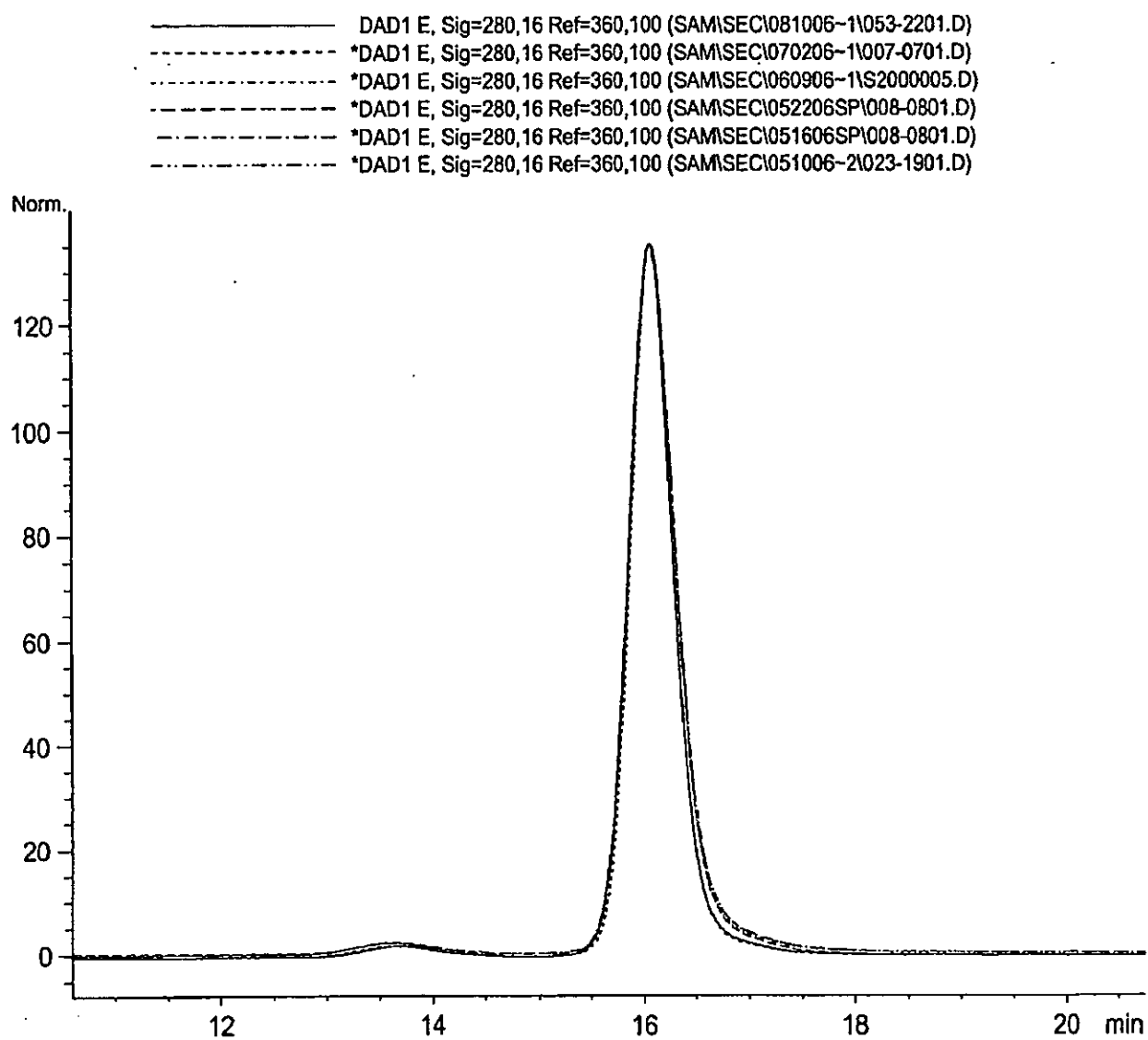


Fig. 56C

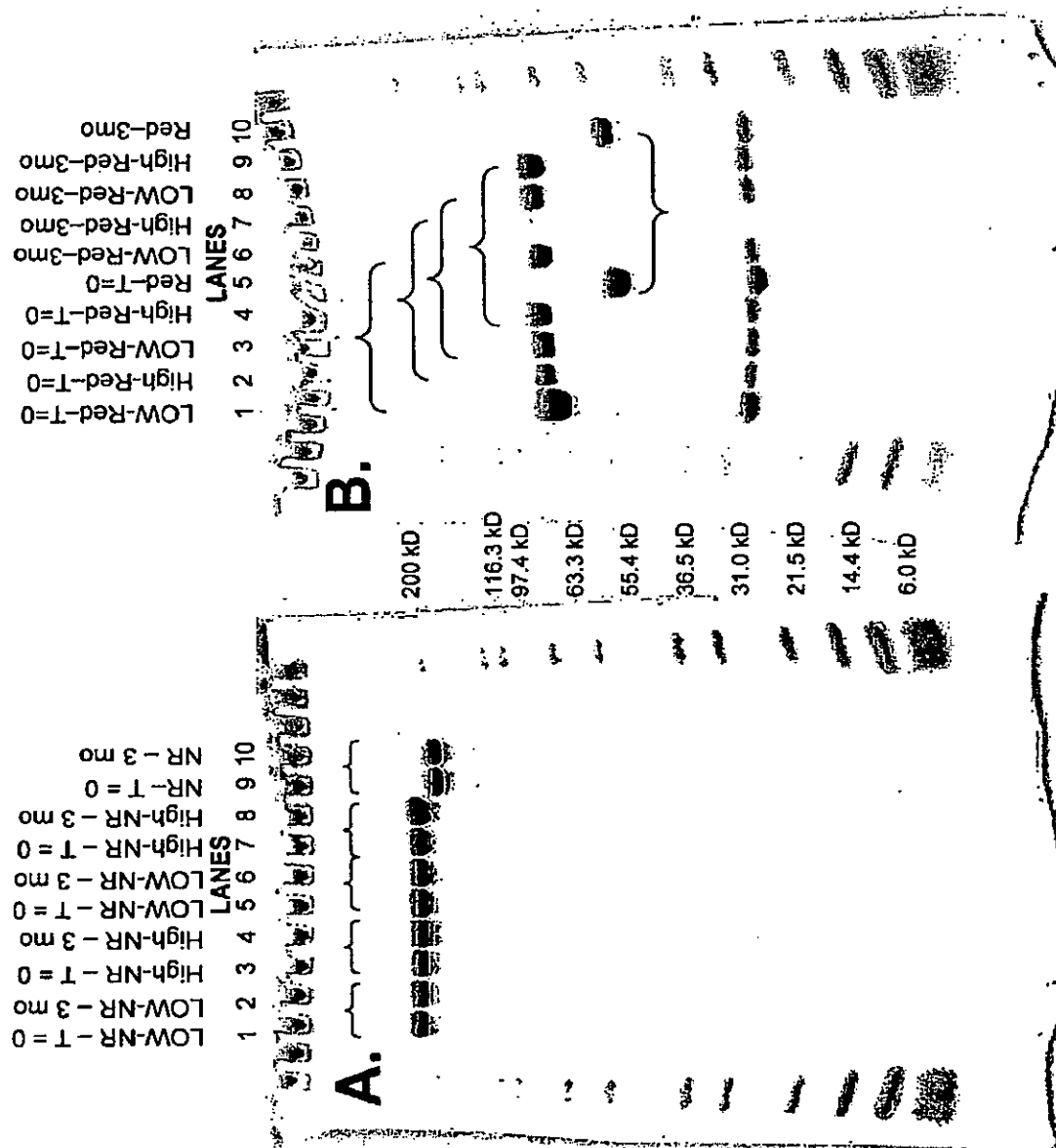
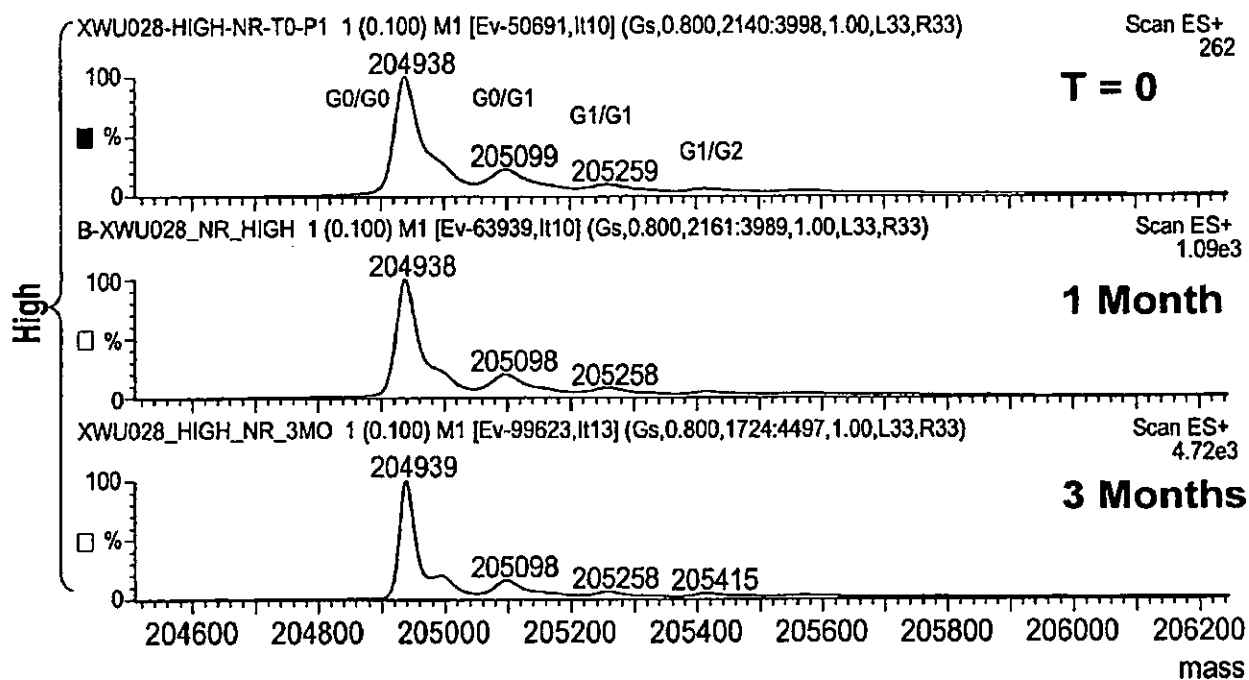
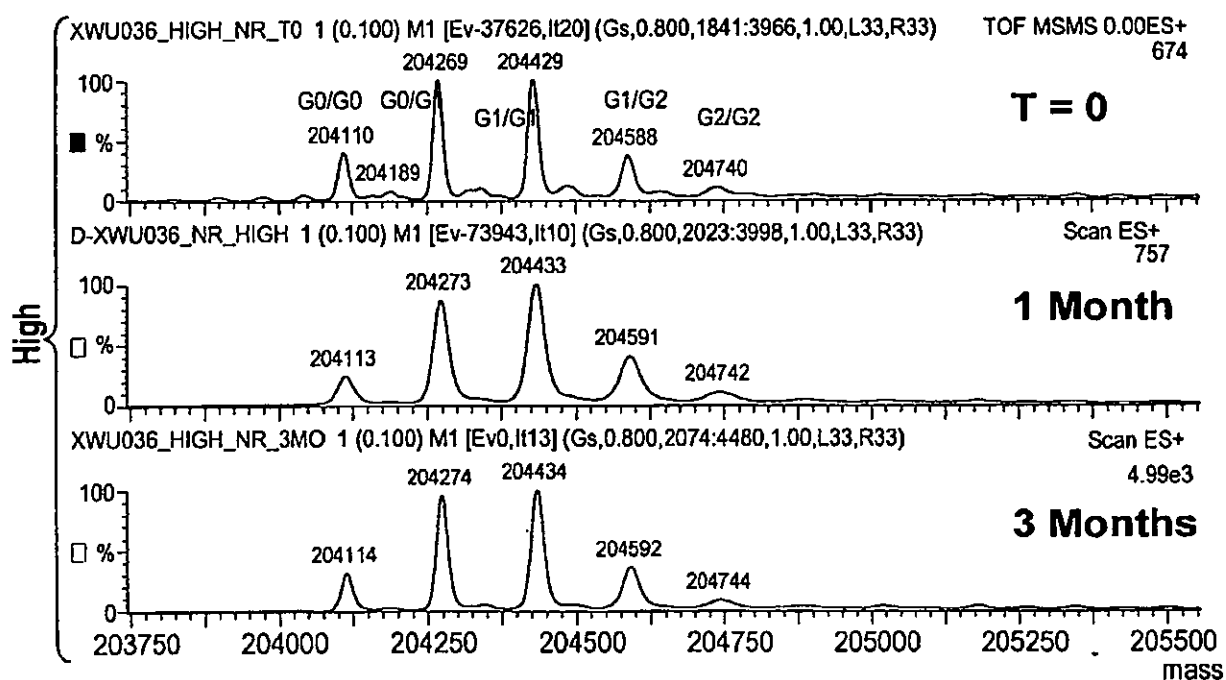


Fig. 57

*Fig. 58A**Fig. 58B*

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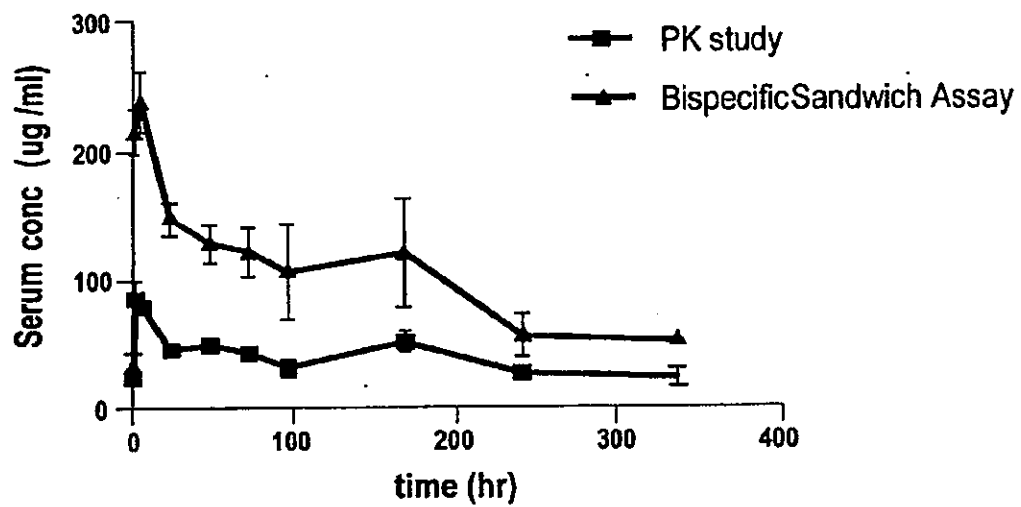


Fig. 59A

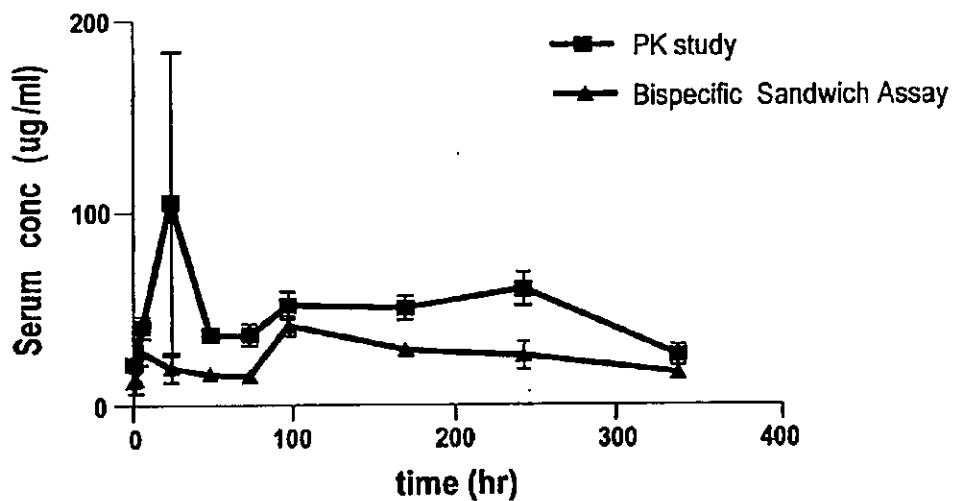


Fig. 59B

Dosing began Day 13

hCBE11 vs VC: P<0.001

hBHA10 vs VC: P<0.001

ch14A2 vs VC: P<0.01

Hercules-II XWU028 vs V.C.: P<0.001

Hercules-II XWU028 vs hBHA10.: P<0.05

Hercules-II XWU028 vs ch14A2.: P<0.05

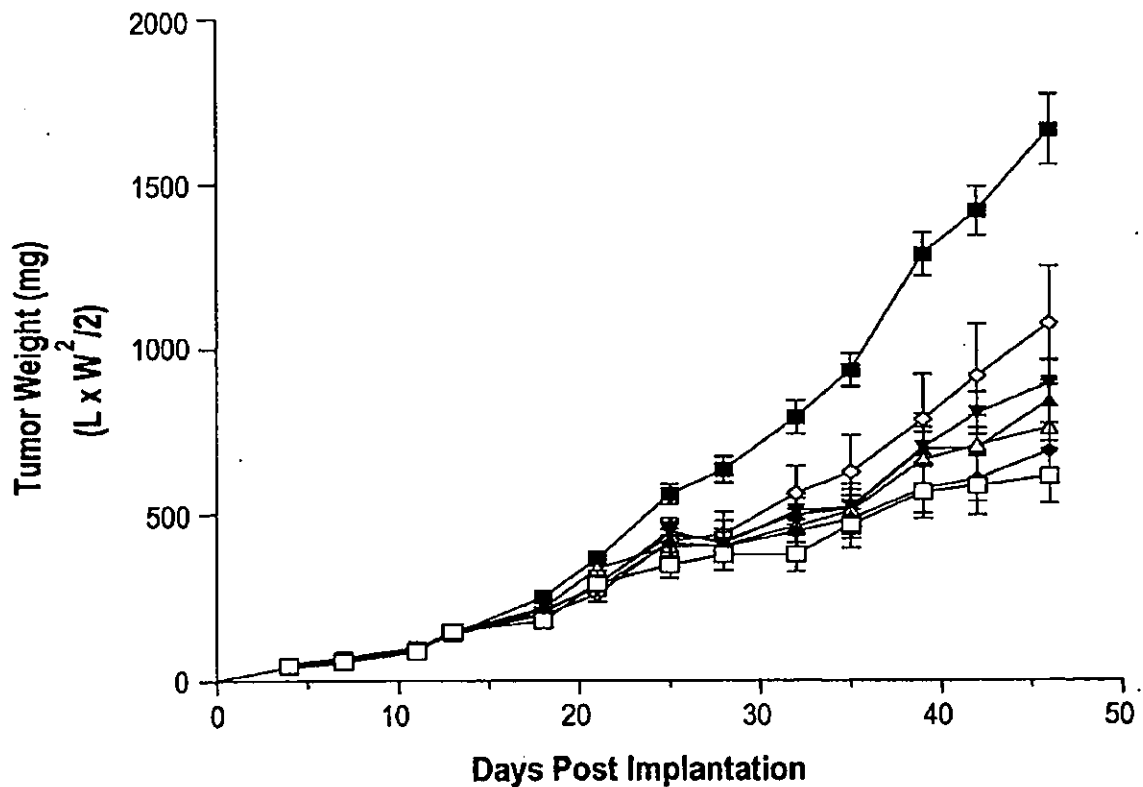
Hercules-II XWU036 vs V.C.: P<0.001

Hercules-II XWU036 vs hBHA10: P<0.01

Hercules-II XWU036 vs ch14A2: P<0.05

Combo vs. V.C.: P<0.001

- Vehicle Control (Pyrogen-free PBS), 10 ml/kg/inj, IP, 2x/wk
- ▲— hCBE11, 2 mg/kg/inj, IP, 1x/wk
- ▼— hBHA10, 2 mg/kg/inj, IP, 2x/wk
- ch14A2, 2 mg/kg/inj, IP, 2x/wk
- ◆— Hercules-II XWU028, 2 mg/kg/inj, IP, 1x/wk
- Hercules-II XWU036, 2 mg/kg/inj, IP, 1x/wk
- △— hBHA10, 1 mg/kg/inj, IP, 2x/wk
plus ch14A2, 1 mg/kg/inj, IP, 2x/wk

*Fig. 60*

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAGAT
CTCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTGAAACAGG
CTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACACTGAGACTGGTGAGCCAACA
TATACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCCACCACTGC
CTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTCTGTGCTAGAT
TCATCTATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACTCTGGTCACTGTC
TCCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCAC
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TCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGG
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ACCGTGGAACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGA
GGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCG
GGGGTGGATCCGGTGGAGGGGGCTCCGGCGGTGGCGGGTCCCAGGTCCAACCTGGTGAG
TCTGGAGCTGAGGTGAAGAAGCCTGGGGAGTCAGTGAAGGTGTCCTGCAAGGCTTCTGG
CTACACTTTTACAACCTACTATTTGCACTGGGTGAGGCAGGCCCCTGGACAGGGACTTG
AGTGGATGGGATGGATTTATCCTGGAAATGTTTCATGCTCAGTACAATGAGAAGTTCAAG
GGCAGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGGAGCTCAGCAG
CCTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGGTTTTCTT
ACTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGCGGTGGAGGGTCCGGTGGGGGC
GGATCTGGGGGCGGCGGGTCCGGTGGTGGTGGTAGTGACATTGAGATGACCCAGTCTCC
TAGCTCCCTGTCCGCCTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCCAGTCAGA
ATGTGGGTATTAATGTAGCCTGGTATCAACAGAAACCAGGGAAGGCTCCTAAATTAATG
ATTTCTCGGCCTCCTACCGGTACAGTGGAGTCCCTTCCAGATTGAGCGGCAGTGGATC
TGGGACAGATTTCACTCTCACCATCAGCAGCCTCCAGCCTGAAGACTTCGCAACCTATT
TCTGTGACGAATATGACACCTATCCATTACGTTCCGGCCAGGGTACCAAGGTGGAGATC
AAATGA (SEQ ID NO: 52)

Fig. 61

QIQLVQS GPELK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK G
LKWMGWI NTETG EPTYTDD FKGRF AFSLVTS ATTAY LQINNLN N
EDTATFF CARFI YDPYWGF AYWGQ GTLVTVS AASTK GPSVFPL A
PSSKSTS GGTAALGCLVKD YFPEP VTVSWNS GALTS GVHTFPA V
LQSSGLY SLSSV VTPVSSS LGTQT YICNVNH KPSNT KVDKKVE P
KSCDKTH TCPPC PAPELLG GPSVF LFPPKPK DTLMI SRTPEVT C
VVVDVSH EDPEV KFNWYVD GVEVH NAKTKPR EEQYN STYRVVS V
LTVLHQD WLNGK EYKCKVS NKALP APIEKTI SKAKG QPREPQV Y
TLPPSRD ELTKN QVSLTCL VKGFY PSDIAVE WESNG QPENNYK T
TPPVLD S DGSFF LYSKLT V DKS R W QQGNVFS CSVMH EALHNHY T
QKSLSLS PGKSG GGGSGGG GSGGG GSQVQLV QSGAE VKKPGES V
KVSCKAS GYTFT TYYLHWV RQAPG QGLEWMG WIYPG NVHAQYN E
KFKGRVT ITADK STSTAYM ELSSL RSED TAV YYCAR SWEGFPY W
GQGTTVT VSSGG GSGGGG SGGGG SGGGGSD IQMTQ SPSSLSA S
VGDRVTI TCKAS QNVGINV AWYQQ KPGKAPK LLISS ASYRYSG V
PSRFSGS GSGTD FTLTISS LQPED FATYFCQ QYD TY PFTFGQG T
KVEIK (SEQ ID NO: 53)

Fig. 62

CAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAGTCAAG
 ATCTCCTGCAAGGCTTCTGGTTTTACCTTCACAGACTATTCAATACACTGGGTGAAA
 CAGGCTCCAGGAAAGGGTTTAAAGTGGATGGGCTGGATAAACACTGAGACTGGTGAG
 CCAACATATACAGATGACTTCAAGGGACGATTTGCCTTCTCTTTGGTGACCTCTGCC
 ACCACTGCCTATTTGCAGATCAACAACCTCAACAATGAGGACACGGCTACATTTTTC
 TGTGCTAGATTATCTATGATCCTTATTGGGGGTTTGCTTACTGGGGCCAGGGGACT
 CTGGTCACTGTCTCCGCAGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCC
 TCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTAC
 TTCCCCGAACCGGTGACGGTGTCTGGAACTCAGGCGCCCTGACCAGCGGCGTGAC
 ACCTTCCCGGCTGTCTTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACC
 GTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCC
 AGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAACTCACACA
 TGCCCAACCGTGCCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCTCTTCCCC
 CCAAAACCAAGGACACCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGTG
 GTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG
 GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGT
 GTGGTCAGCGTCTCACCCTGCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAG
 TGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCC
 AAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTG
 ACCAAGAACCAGGTGAGCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATC
 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACCTACAAGACCACGCCTCCC
 GTGCTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGC
 AGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAAC
 CACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATCCGGCGGGGGTGGATCC
 GGTGAGAGGGGCTCCGGCGGTGGCGGGTCCCAGGTCCAACCTGGTGCAGTCTGGAGCT
 GAGGTGAAGAAGCCTGGGGAGTCAGTGAAGGTGTCTGCAAGGCTTCTGGCTACACT
 TTCACAACCTACTATTTGCACTGGGTGAGGCAGGCCCTGGACAGTGCCCTTGAGTGG
 ATGGGATGGATTTATCCTGGAAATGTTTATGCTCAGTACAATGAGAAGTTCAAGGGC
 AGGGTCACAATCACTGCAGACAAATCCACCAGCACAGCCTACATGGAGCTCAGCAGC
 CTGAGGTCTGAAGATACTGCGGTCTATTACTGTGCAAGATCCTGGGAAGGTTTTCTCT
 TACTGGGGCCAAGGGACCACGGTCAACCTCTCCTCAGGCGGTGGAGGGTCCGGTGGG
 GGCGGATCTGGGGGCGGCGGGTCCGGTGGTGGTGGTAGTGACATTGAGATGACCCAG
 TCTCCTAGCTCCCTGTCCGCCTCAGTAGGAGACAGGGTCACCATCACCTGCAAGGCC
 AGTCAGAATGTGGGTATTAATGTAGCCTGGTATCAACAGAAACCAGGGAAGGCTCCT
 AAATTACTGATTTCTCGGCCTCCTACCGGTACAGTGGAGTCCCTTCCAGATTCAGC
 GGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCCTCCAGCCTGAAGAC
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 ACCAAGGTGGAGATCAAATGA (SEQ ID NO: 54)

Fig. 63

QIQLVQS GPELK KPGETVK ISCKA SGFTFTD YSIHW VKQAPGK GLK
WMGWINT ETGEP TYTDDFK GRFAF SLVTSAT TAYLQ INNLNNE DTA
TFFCARF IYDPY WGFAYWG QGTLV TVSAAST KGPSV FPLAPSS KST
SGGTAAL GCLVK DYFPEPV TVSWN SGALTSG VHTFP AVLQSSG LYS
LSSVTV PSSSL GTQTYIC NVNHK PSNTKVD KKVEP KSCDKTH TCP
PCPAPEL LGGPS VFLFPPK PKDTL MISRTPE VTCVV VDVSHED PEV
KFNWYVD GVEVH NAKTKPR EEQYN STYRVVS VLTVL HQDWLNG KEY
KCKVSNK ALPAP IEKTISK AKGQP REPQVYT LPPSR DELTKNQ VSL
TCLVKGF YPSDI AVEWESN GQPEN NYKTTPP VLDSG GSFFLYS KLT
VDKSRWQ QGNVF SCSVMHE ALHNH YTQKSLS LSPGK SGGGSG GGG
SGGGGSQ VQLVQ SGAEVKK PGESV KVSCKAS GYTFT TYYLHWV RQA
PGQCLEW MGWIY PGNVHAQ YNEKF KGRVTIT ADKST STAYMEL SSL
RSED TAV YYCAR SWEGFPY WGQGT TVTVSSG GGGSG GGGSGGG GSG
GGGSDIQ MTQSP SSLSASV GDRVT ITCKASQ NVGIN VAWYQQK PGK
APKLLIS SASYR YSGVPSR FSGSG SGTDFTL TISSL QPEDFAT YFC
QQYDTYP FTFGC GTKVEIK

(SEQ ID NO: 55)

Fig. 64

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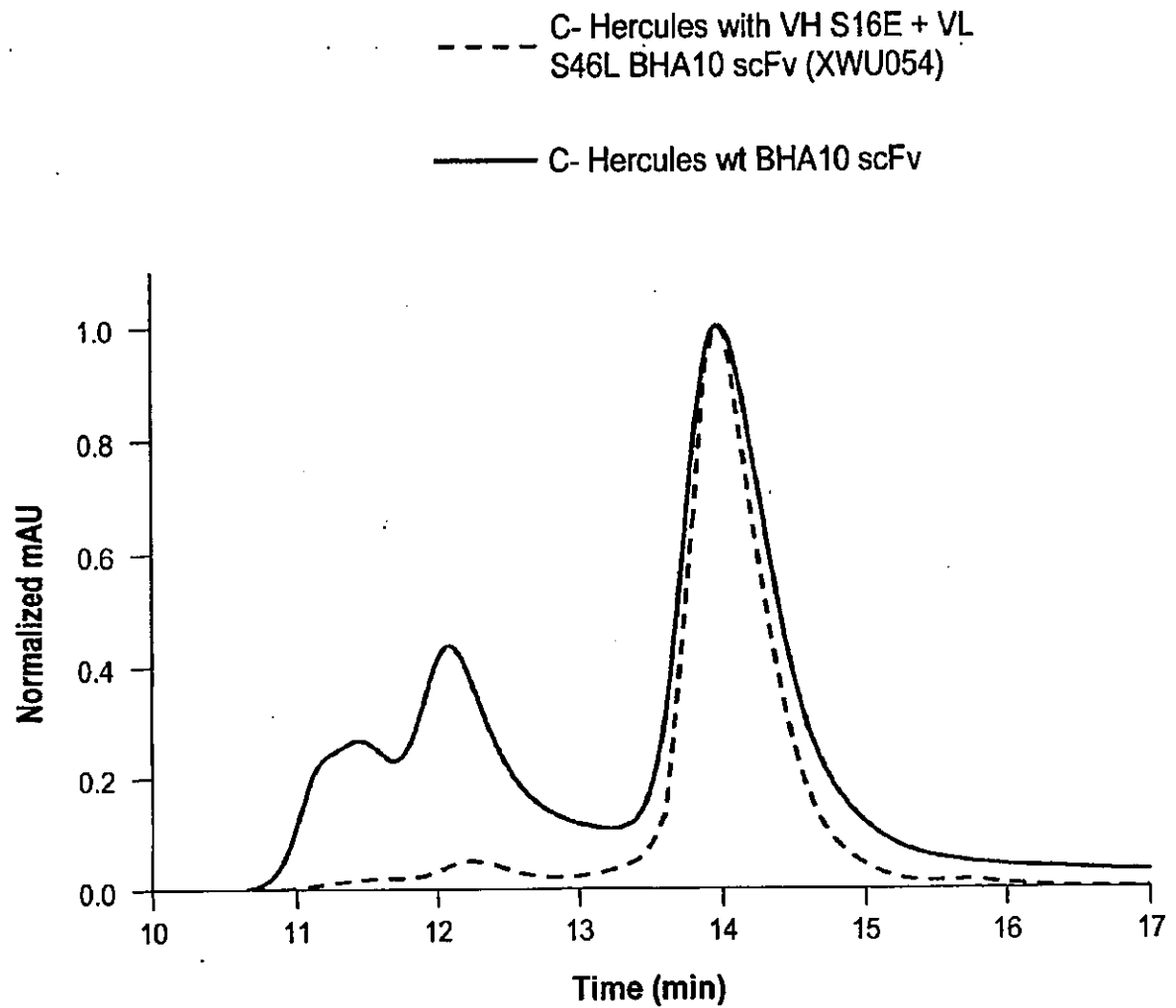
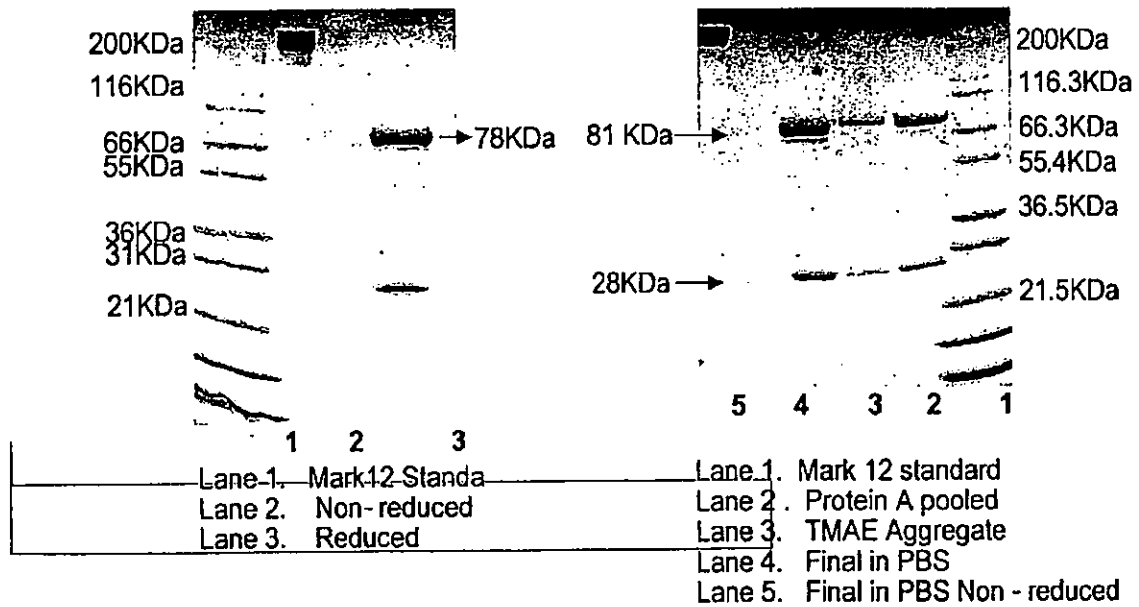


Fig. 65

*Fig. 66A**Fig. 66B*

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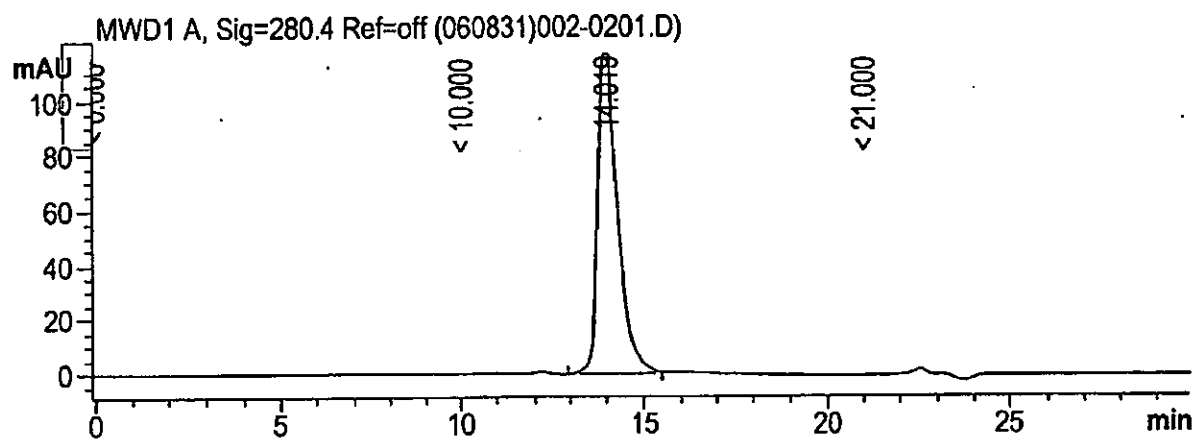


Fig. 67A

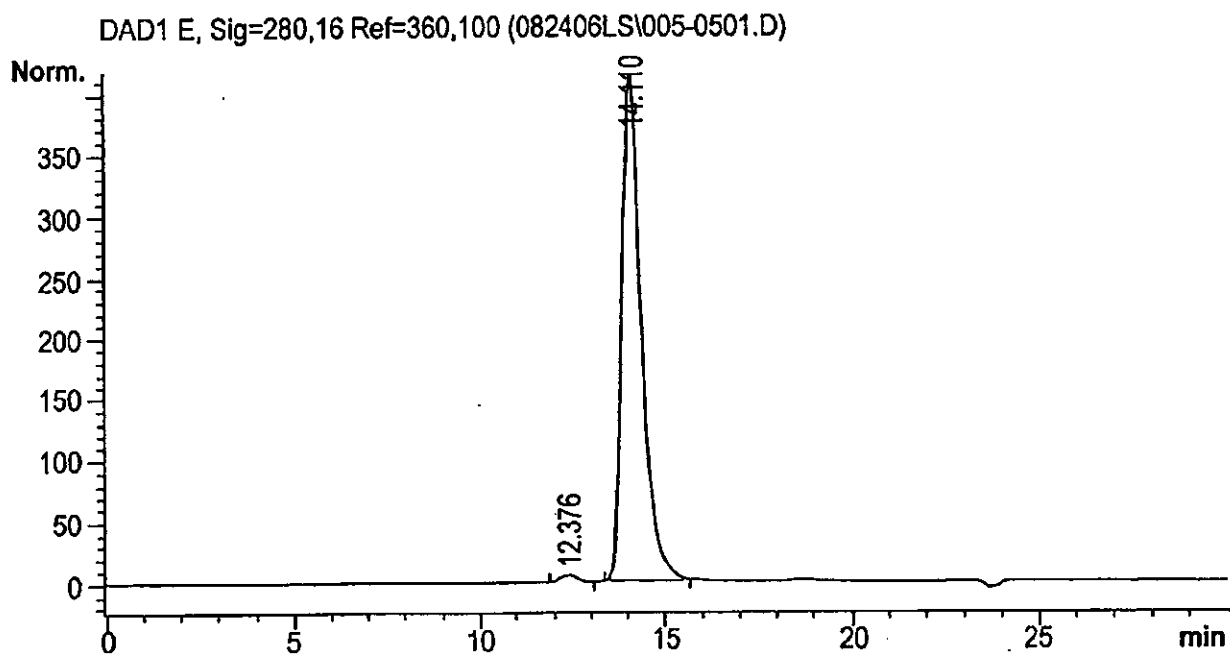


Fig. 67B

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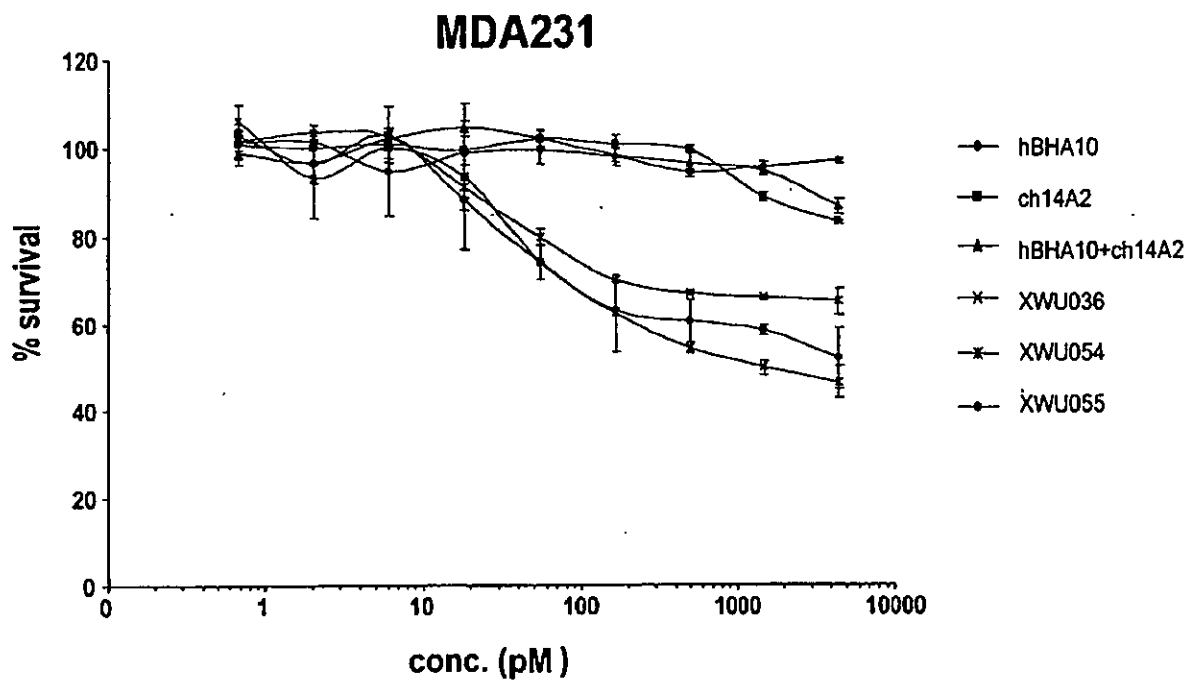


Fig. 68A

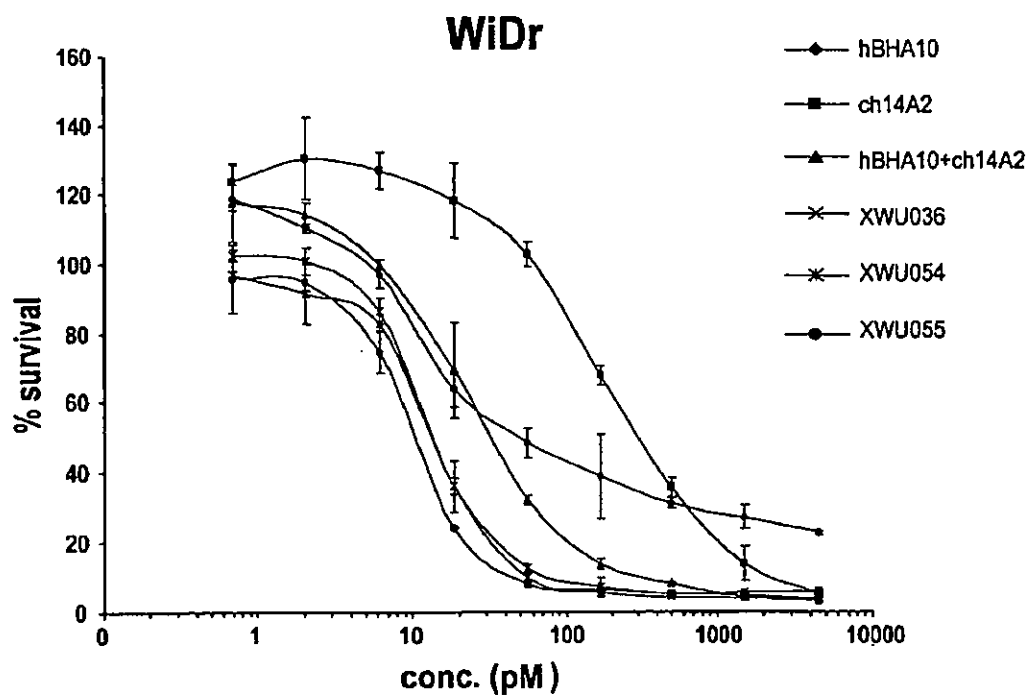


Fig. 68B

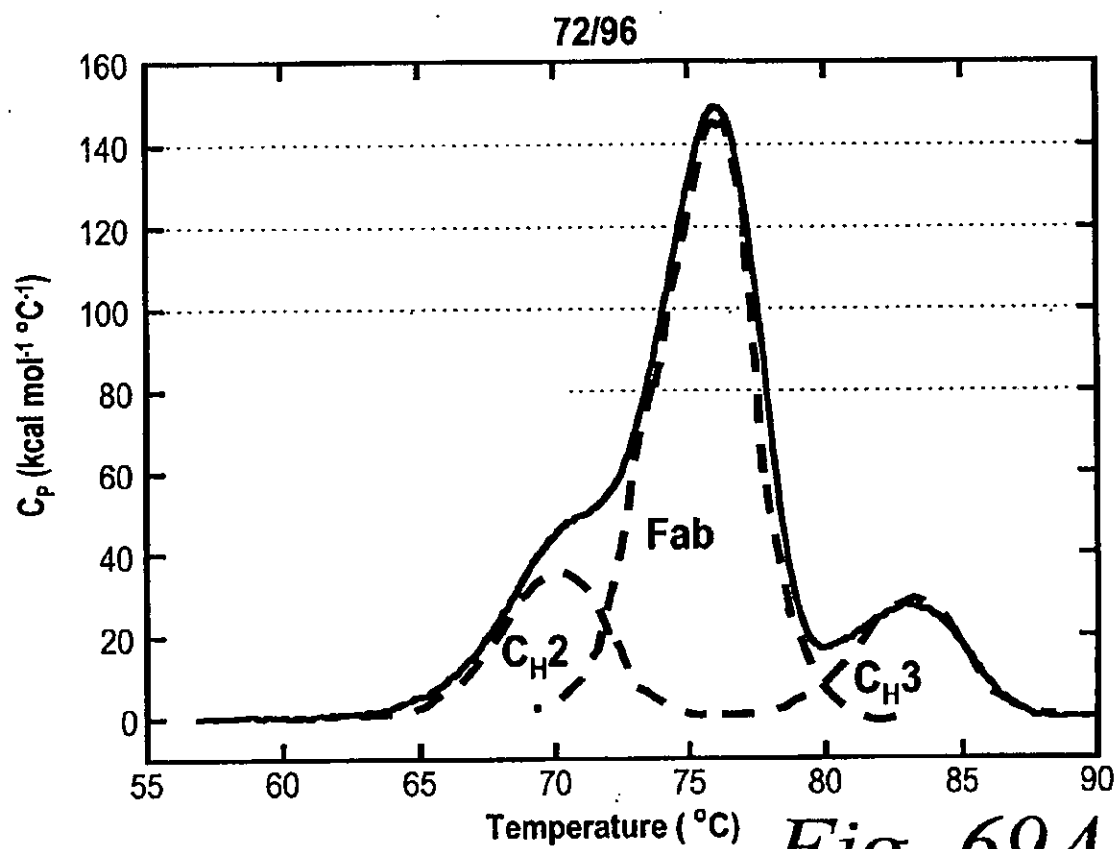


Fig. 69A

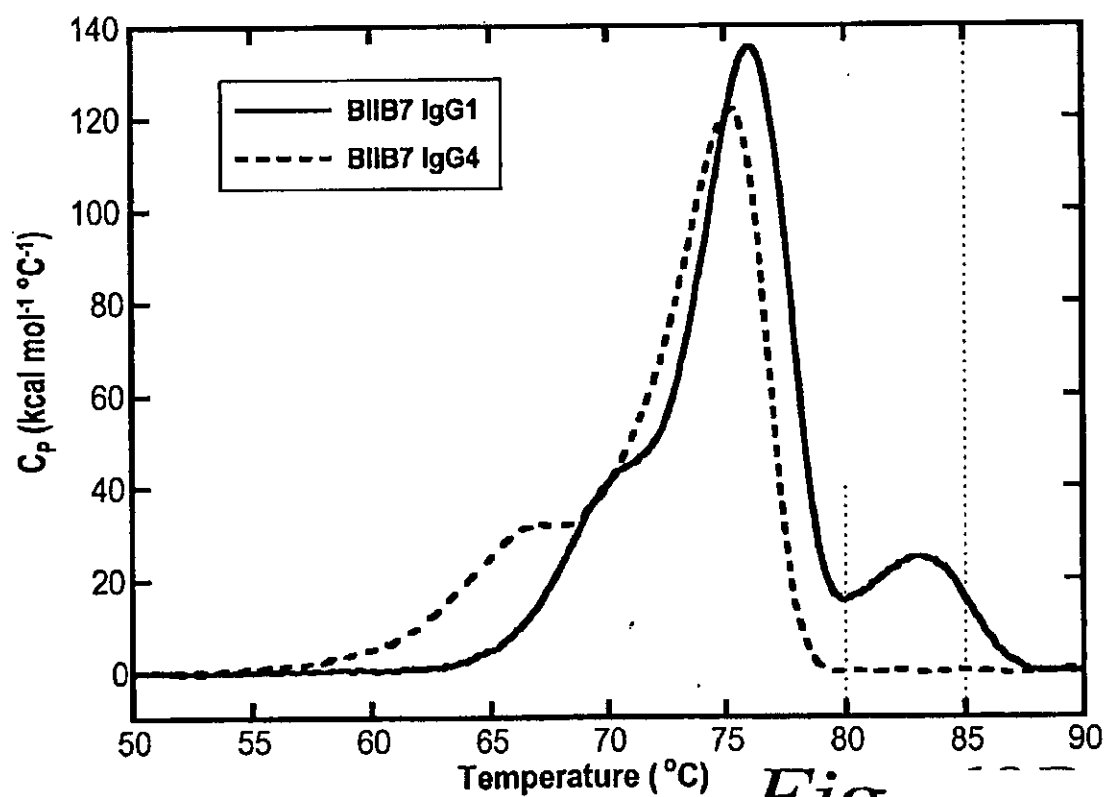


Fig.

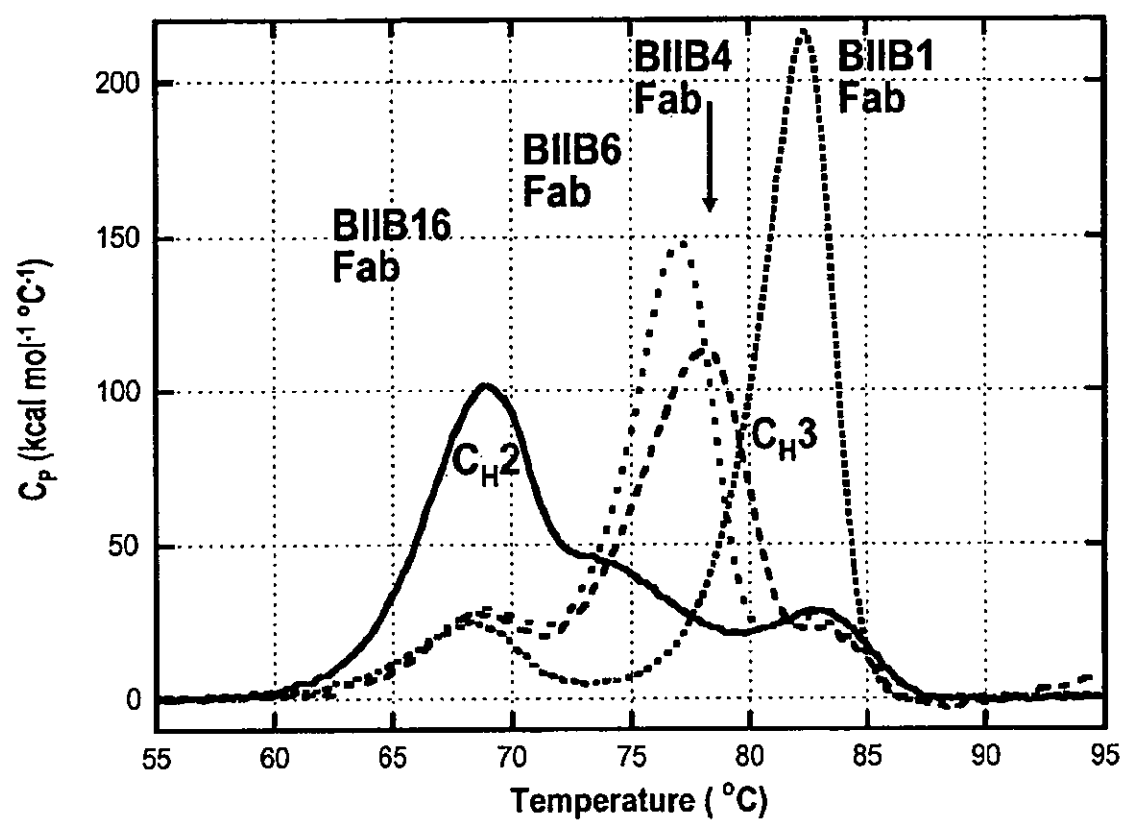
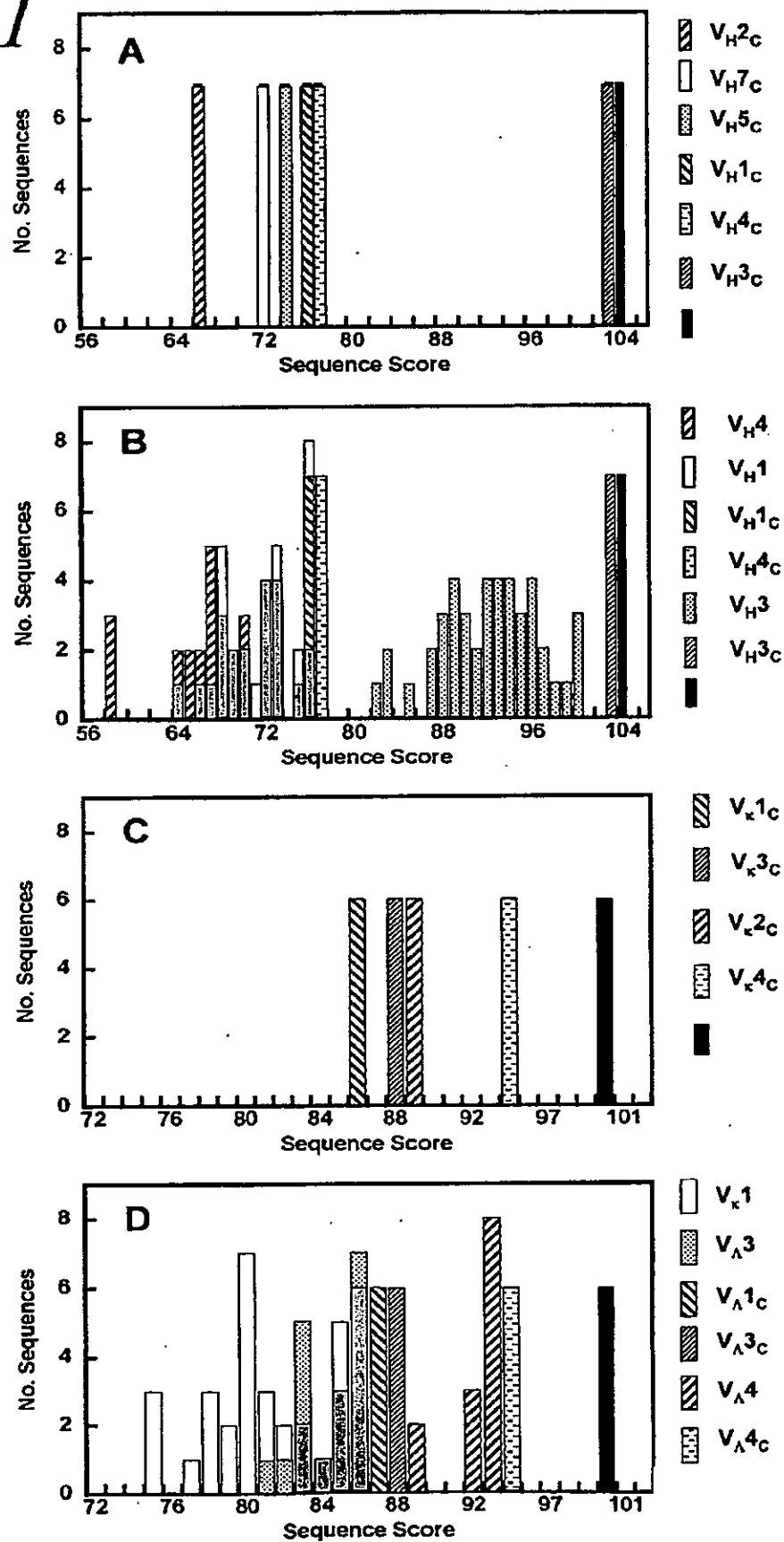
*Fig. 70*

Fig. 71

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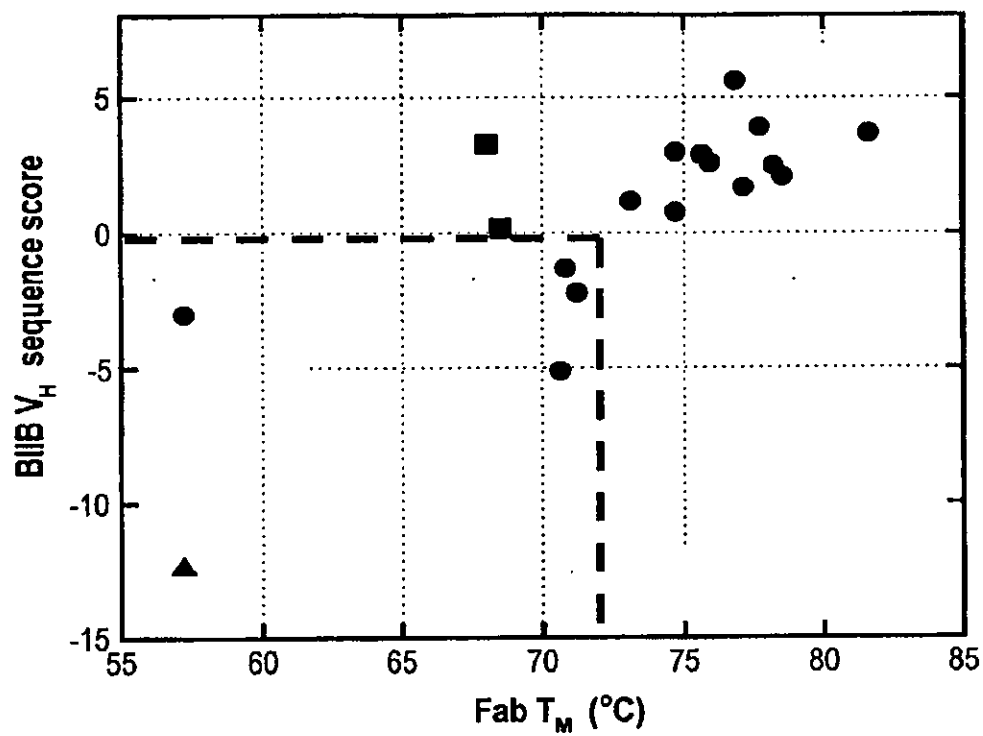


Fig. 72A

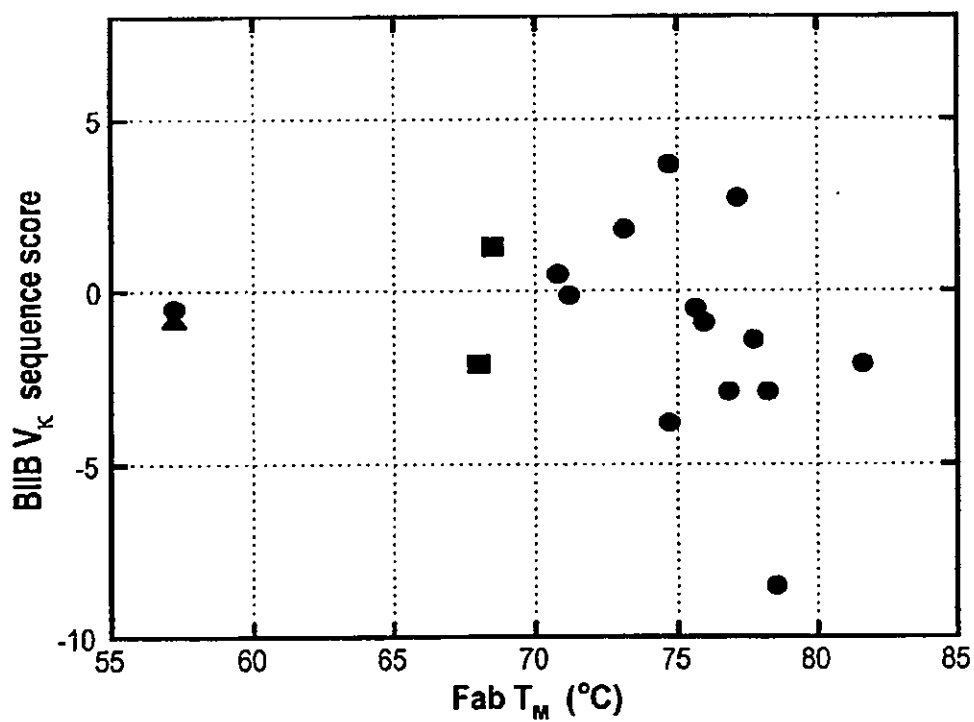


Fig. 72B

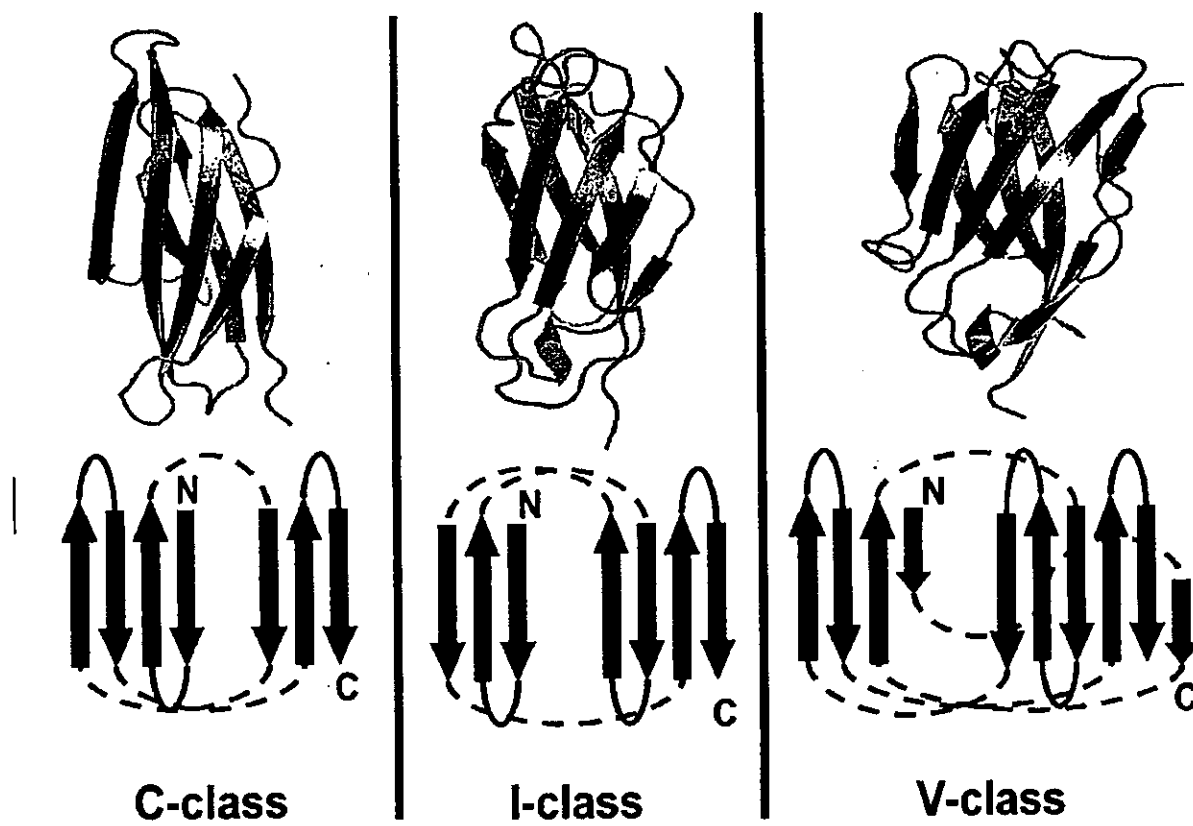


Fig. 73

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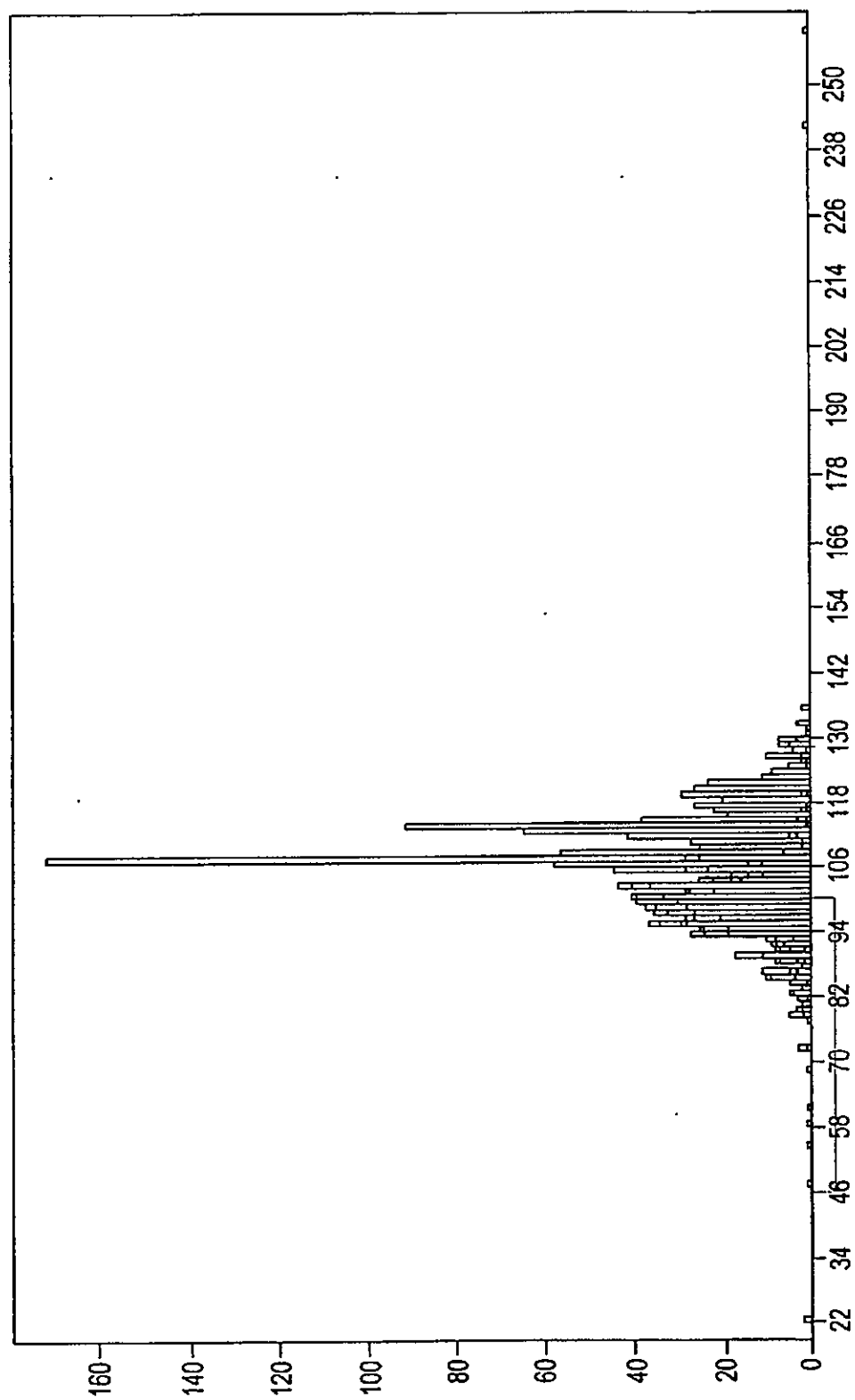


Fig. 74

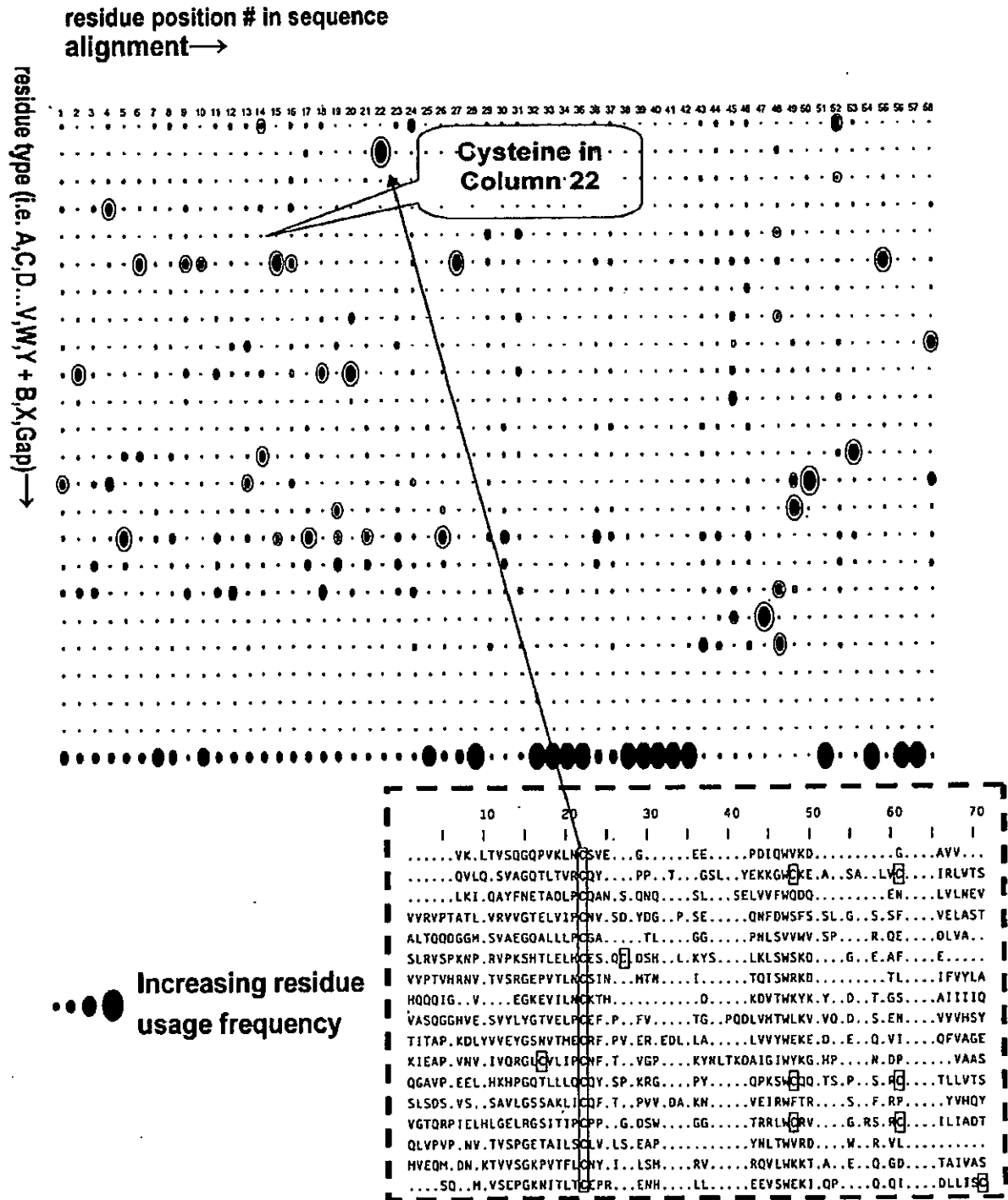


Fig. 76

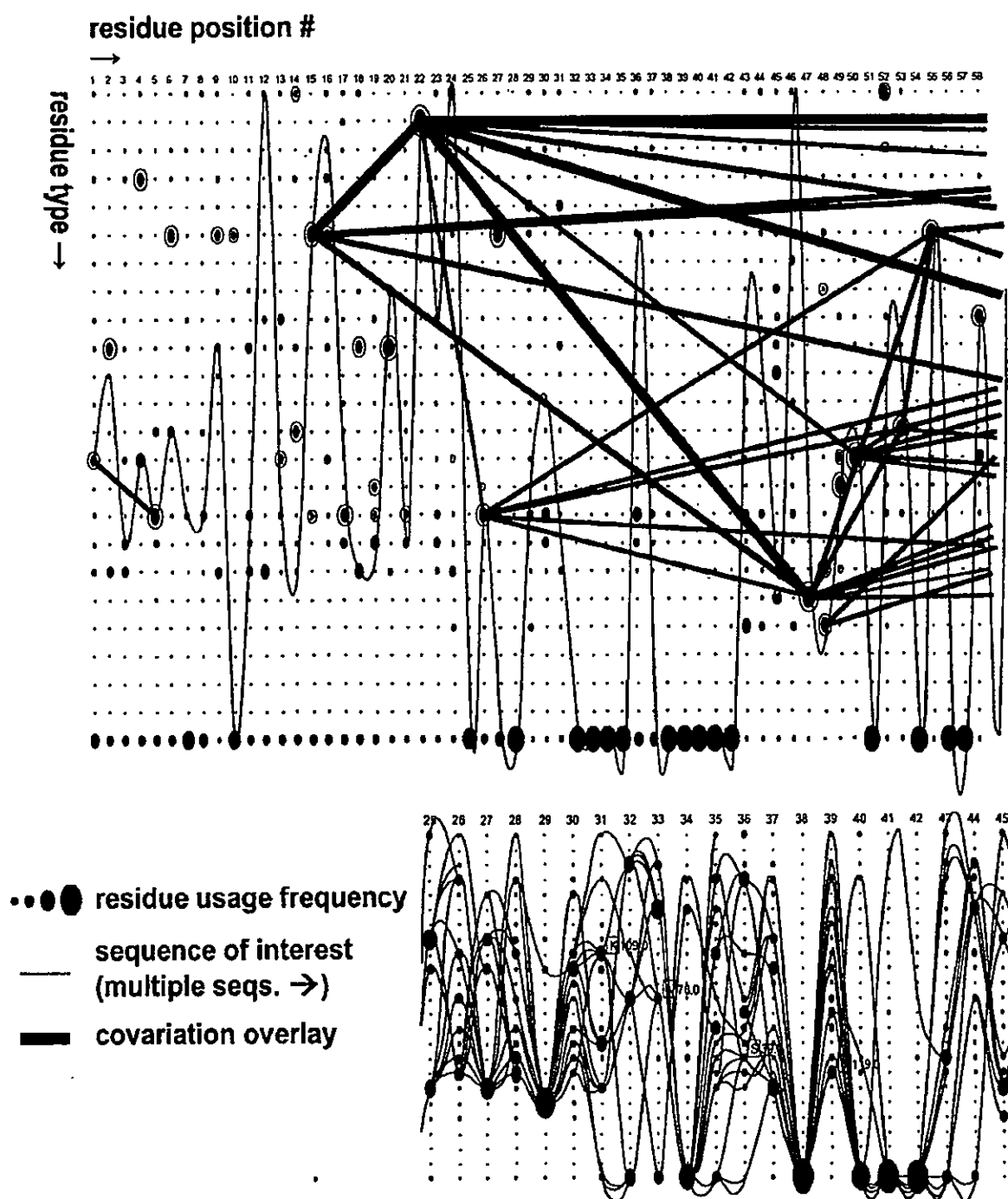


Fig. 77

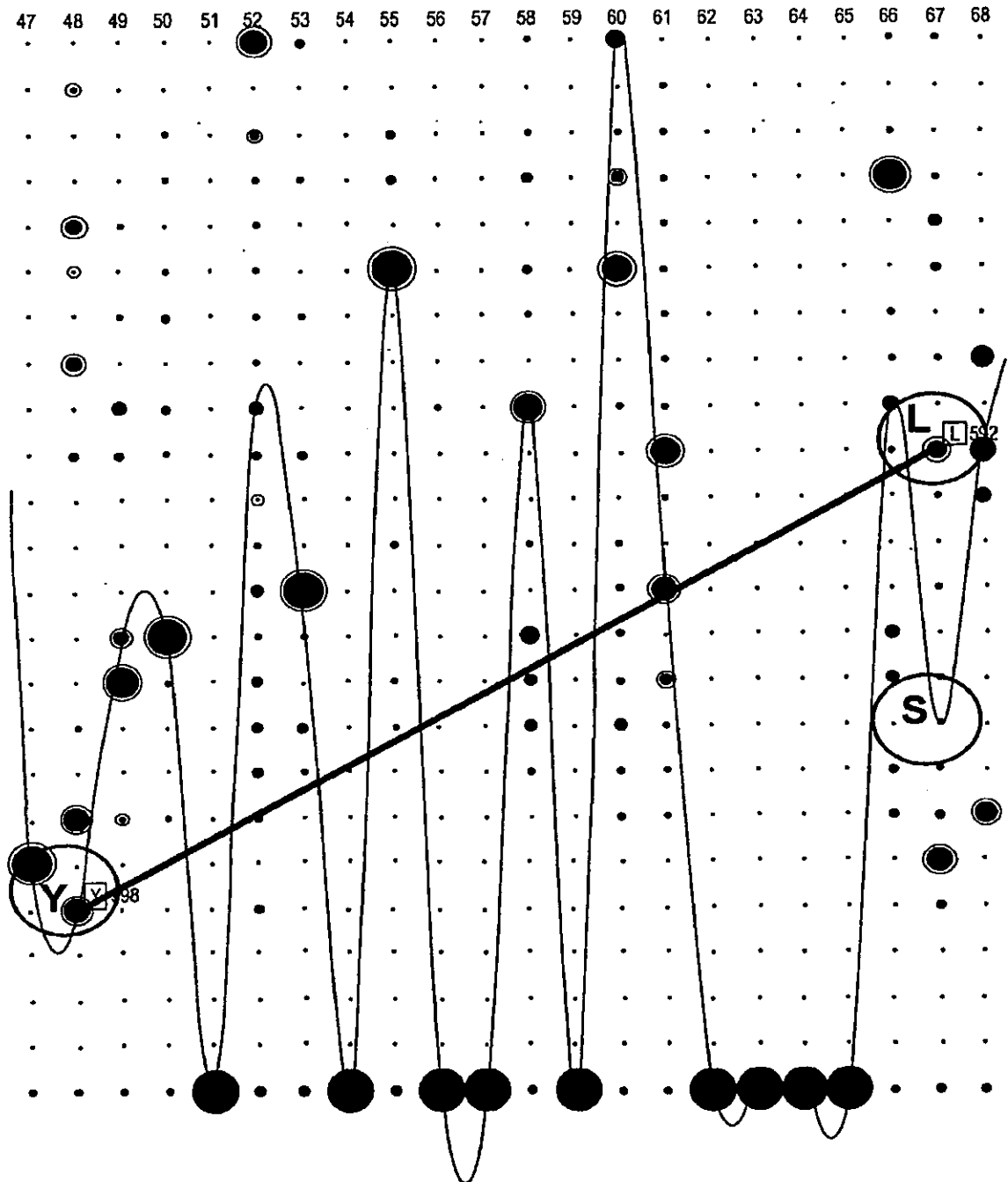
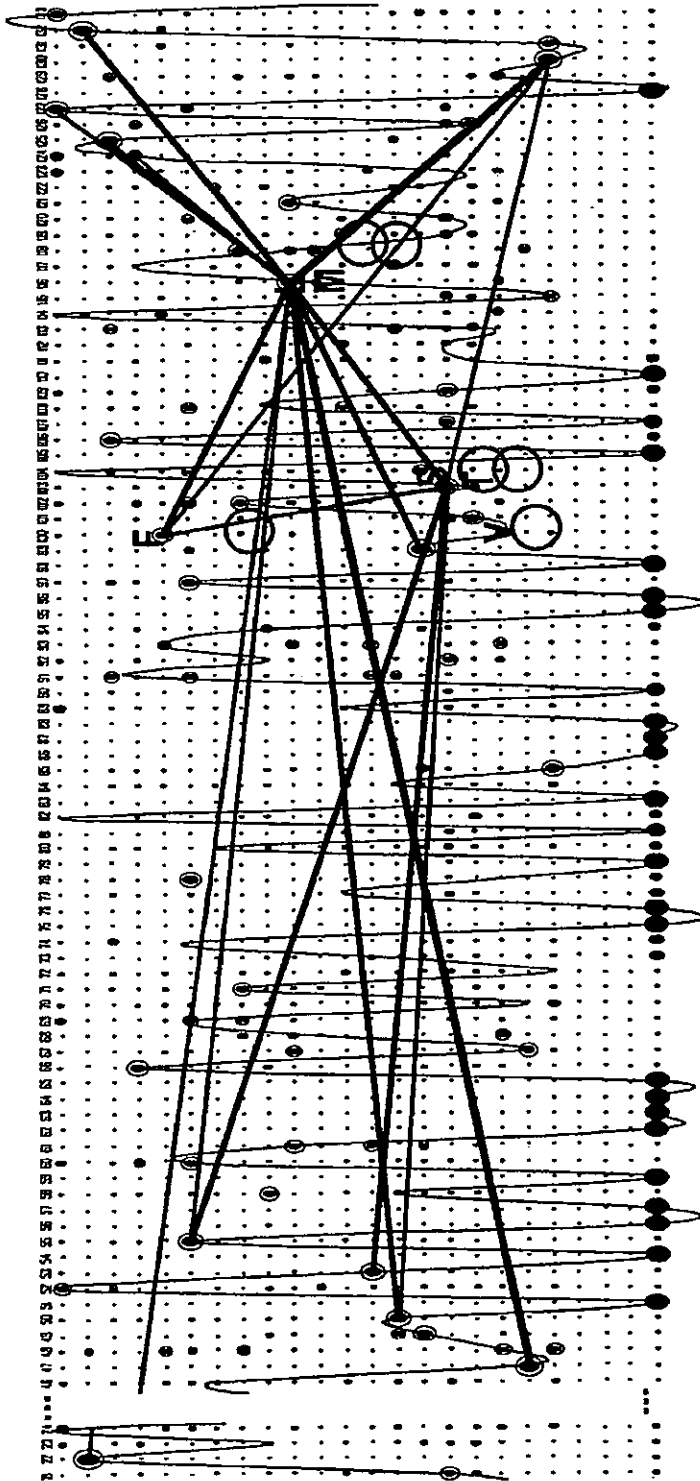


Fig. 78



67 V	▲	67 F
70 T	▲	70 S
80 M	▲	80 L

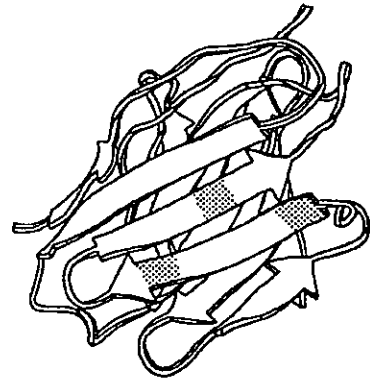


Fig. 79

GAGGTGCAGCTGGTGGAGTCTGGGGGCGGCTTGGCAAAGCCTGGGGGGTCCCTGAGACTCT
 CCTGCGCAGCCTCCGGGTTTACGTTTCACTTCAATAACTACTACATGGACTGGGTCCGCCA
 GGCTCCAGGGCAGGGGCTGGAGTGGGTCTCACGTATTAGTAGTAGTGGTGATCCCACATGG
 TACGCAGACTCCGTGAAGGGCAGATTACCATCTCCAGAGAGAACGCCAAGAACACACTGT
 TTCTTCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTGAC
 TACAGGGTCTGACTCCTGGGGCCAGGGAGTCTGGTCAACGTCTCCTCAGCTAGCACCAAG
 GGCCCATCGGTCTTCCCCCTGGCACCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCC
 TGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGGAACCTCAGGCGC
 CCTGACCAGCGGCGTGCACACCTTCCCCGGCTGTCTACAGTCTCAGGACTCTACTCCCTC
 AGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGA
 ATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAAC
 TCACACATGCCACCGTGCCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCTCTTCTC
 CCCCCAAAACCAAGGACACCCCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGTGG
 TGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGT
 GCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAAGC
 GTCTTCAACGTCTCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCA
 ACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCCAAGCCAAAGGGCAGCCCCGAGA
 ACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAGCCTG
 ACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGC
 AGCCGGAGAACAACATAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCTT
 CTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCC
 GTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTA
 AATCCGGCGGGGGTGGATCCGGTGGAGGGGGCTCCGGCGGTGGCGGGTCCGACATCCAGAT
 GACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGAGTACCATCACTTGCAGG
 GCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGCAGAAACCAGGAAAAGCTCCTA
 AGCTCCTGATCTATGTTGCATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTACGCGGCAG
 TGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCCTGCAGCCTGAAGATTTTGCAGCT
 TATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTCCGGCCAAGGGACCAAGGTGGAAA
 TCAAAGGTGGGGGCGGATCTGGGGGCGGCGGGTCCCGTGGTGGTGGTAGTGAGGTGCAGCT
 GGTGGAGTCTGGGGGCGGCTTGGCAAAGCCTGGGGGGTCCCTGAGACTCTCCTGCGCAGCC
 TCCGGGTTTCAAGTTTCACTTCAATAACTACTACATGGACTGGGTCCGCCAGGCTCCAGGGC
 AGGGGCTGGAGTGGGTCTCACGTATTAGTAGTAGTGGTGTATCCACATGGTACGCAGACTC
 CGTGAAGGGCAGATTACCATCTCCAGAGAGAACGCCAAGAACACACTGTTTCTTCAAATG
 AACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTGACTACAGGGTCTG
 ACTCCTGGGGCCAGGGAGTCTTGGTCAACGTCTCCTCATGA (SEQ ID NO:63)

Fig. 80

EVQLVES GGGLAKPGGSLRLS CAAS GFRFTFNYY MDWVRQAPGQGLEWVSRI S
 SSGDPTW YADSVKGRFTISRĒ NAKNTLFLQMNSLR AEDTAVYYCASLT TGSDSW
 GQGVLT VSSASTKGPSVFPLAPSS KSTSGGTAAL GCLVKDYFPEPVTV SWNSG
 ALTSGVH TFP AVLQSSGLYSL SSVVTV PSSSLGTQ TYICNVNHKPSNTK VDKKV
 EPKSCDK THTC PPCPAPELLG GPSVFLFPPKPKDT LMISRTPEVTCVVDV SHE
 DPEVKFN WYVDGVEVHNAKTK PREEQYNSTYRVVS VLTVLHQDWLNGKE YKCKV
 SNKALPA PIEKTISKAKGQPR EPQVYTLPPSRDEL TKNQVSLTCLVKGF YPSDI
 AVEWESN GQPENNYKTPPVLDSDG SFFLYSKLTV DKSRWQQGNVFSCS VMHEA
 LHNHYTQ KSLSLSPGKSGGGG SGGGSGGGGSDIQ MTQSPSSLSASVGD RVTIT
 CRASQDI RYYLNWYQQKPGKA PKLLIYVASSLQSG VPSRFSGSGSGTEF TLTVS
 SLQPEDF ATYYCLQVYSTPRT FGQGTKVEIKGGGG SGGGSGGGGSEVQLVESG
 GGLAKPG GSLRLSCAASGFRF TFNNYYMDWVRQAP GQGLEWVSRISSSGDPTWY
 ADSVKGRFTISRĒ NAKNTLFLQMNS LRAEDTAVYY CASLT TGSDSWGQGVLT V
 SS* (SEQ ID NO:64)

Fig. 81

GACATCC AGATGACCCAGTCT CCATCTT CCCTGTC TGCA TCTGTAGGGG AC
AGAGTCA CCATCACTTGCAGG GCAAGTCAGGACAT TAGGTATTATTTAA AT
TGGTATC AGCAGAAACCAGGA AAAG CTC CTAAGCT CCTGATCTATGTTG CA
TCCAGTT TGCAAAGTGGGGTC CCATCAAGGTTTCAG CGGCAGTGGATCTG GG
ACAGAGT TCACTCTCACCGTC AGCAGCCTGCAGCC TGAAGATTTTGCGA CT
TATTACT GTCTACAGGTTTAT AGTACCCCTCGGAC GTTCGGCCAAGGGA CC
AAGGTGG AAATCAAACGTACG GTGG CTG CACCATC TGTC TTCATCTTCC CG
CCATCTG ATGAGCAGTTGAAA TCTGGAACTGCCTC TGTTGTGTGCCTGC TG
AATAACT TCTATCC CAGAGAG GCCAAAGTACAGTG GAAGGTGGATAACG CC
CTCCAAT CGGGTAACTCCAG GAGAGTGTACACAGA GCAGGACAGCAAGG AC
AGCACCT ACAGCCTCAGCAGC ACCCTGACGCTGAG CAAAGCAGACTACG AG
AAACACA AAGTCTACGCCTGC GAAGTCA CCCATCA GGGCCTGAGCTCGC CC
GTCACAA AGAGCTTCAACAGG GGAGAGTGTTGA (SEQ ID NO:65)

Fig. 82A

DIQMTQS PSSLSASVGDRVTI TCRA SQD IRYYLNW YQQKPGKAPKLLIY VA
SSLQSGV PSRFSGSGSGTEFT LTVS SLQPEDFATY YCLQVYSTPRTFGQ GT
KVEIKRT VAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVD NA
LQSGNSQESVTEQDSKSTYS LSSTLTLSKADYEKHKVYACEVTHQGLS SP
VTKSFNRGEC (SEQ ID NO:66)

Fig. 82B

GACATCC AGATGACCCAGTCT CCATCTTCCCTGTC TGCA TCTGTAGGGG AC
 AGAGTCA CCATCAC TTGCAGG GCAA GTCAGGACAT TAGGTATTATTTAA AT
 TGGTATC AGCAGAAACCAGGA AAAG CTCCTAAGCT CCTGATCTATGTTG CA
 TCCAGTT TGCAAAGTGGGGGTC CCATCAAGGTTT CAG CGGCAGTGGATCTG GG
 ACAGAGT TCAC TCTCACCGTC AGCAGCCTGCAGCC TGAAGATTTTGCGA CT
 TATTACT GTCTACAGGTTTAT AGTACCCCTCGGAC GTTCGGCCAAGGGA CC
 AAGGTGG AAATCAAAGGCGGT GGC GGGTCCGGTGG GGGTGGCTCCGGGG GC
 GGTGGCT CCGAGGTGCAGCTG GTGGAGTCTGGGGG CGGCTTGGCAAAGC CT
 GGGGGGT CCCTGAGACTCTCC TGCGCAGCCTCCGG GTTCAGGTTCACCT TC
 AATAACT ACTACATGGACTGG GTCCGCCAGGCTCC AGGGCAGGGGCTGG AG
 TGGGTCT CACGTATTAGTAGT AGTGGTGATCCAC ATGGTACGCAGACT CC
 GTGAAGG GCAGATTCACCATC TCCAGAGAGAACGC CAAGAACACACTGT TT
 CTTCAAA TGAA CAGCCTGAGA GCTGAGGACACGGC TGTC TATTACTGTG CG
 AGCTTGA CTACAGGGTCTGAC TCCTGGGGCCAGGG AGTC CTGGTCCACCG TC
 TCCTCATGA (SEQ ID NO:67)

Fig. 83A

DIQMTQS PSSLSASVGDRVIT TCRA SQDIRYYLNW YQQKPGKAPKLLIY V
 ASSLQSG VPSR FSGSGSGTEF TLT VSSLQPEDFAT YYCLQVYSTPRTFG Q
 GTKVEIK GGGGSGGGGSGGGG SEVQLVESGGGLAK PGGS LRLSCAASGFR
 FTFNNYY MDWVRQAPGQGLEW VSRI SSSGDPTWYA DSVKGRFTISRENA K
 NTLFLQMNSLRAEDTAVYYCA SLTTGSDSWGQGVLT VTVSS*

(SEQ ID NO:68)

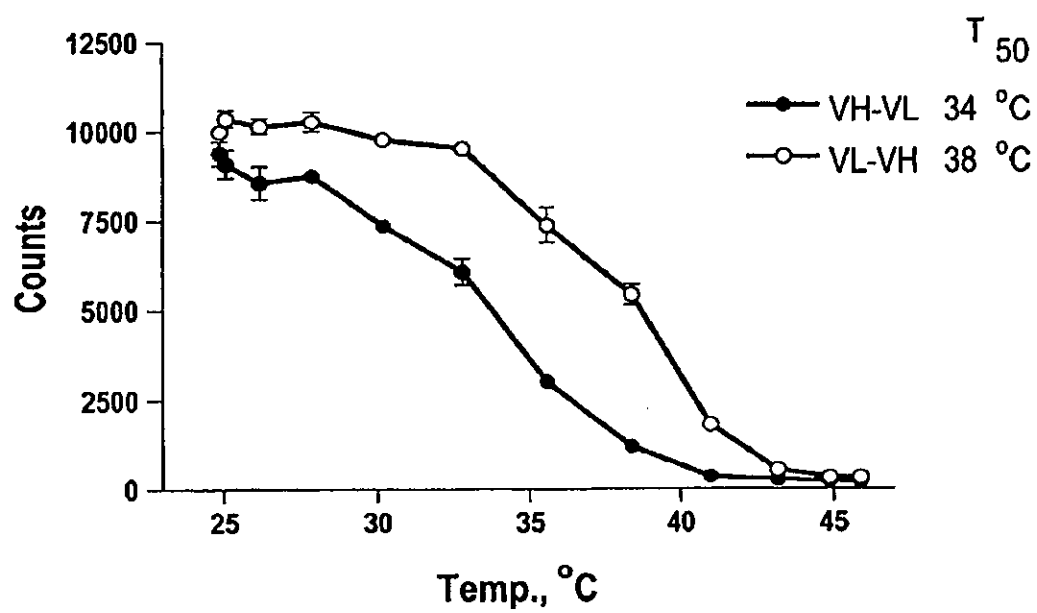
Fig. 83B

GAGGTGC AGCTGGTGGAGTCT GGGGGCGGCTTGGC AAAGCCTGGGGGGT CCCT
 GAGACTC TCCTGCGCAGCCTC CGGGTTCAGGTTCA CCTTCAATAACTAC TACA
 TGGACTG GGTC CGC CAGGCTC CAGGGCAGGGGCTG GAGTGGGTCTCACG TATT
 AGTAGTA GTGGTGATCCCACA TEGTACG CAGACTC CGTGAAGGGCAGAT TCAC
 CATCTCC AGAGAGAACGCCAA GAACACA CTGTTTC TTCAAATGAACAGC CTGA
 GAGCTGA GGACACGGCTGTCT ATTA CTGTGCGAGC TTGACTACAGGGTC TGAC
 TCCTGGG GCCAGGGAGTCCTG GTCA CCGTCTCCTC AGGC GGTGGCGGGT CCGG
 TGGGGGT GGCT CCGGGGGCGG TGGCTCCGACATCC AGATGACCCAGTCT CCAT
 CTTCCCT GTCTGCATCTGTAG GGGACAGAGTCACC ATCA CTTGCAGGGC AAGT
 CAGGACA TTAGGTATTATTTA AATTGGTATCAGCA GAAACCAGGAAAAG CTCC
 TAAGCTC CTGATCTATGTTGC ATCCAGTTTGCAAA GTGGGGTCCCATCA AGGT
 TCAGCGG CAGTGGATCTGGGA CAGAGTTCAC TCTC ACCGTCAGCAGCCT GCAG
 CCTGAAG ATTTTGCGACTTAT TACTGTCTACAGGT TTATAGTACCCCTC GGAC
 GTTCGGC CAAGGGACCAAGGT GGAAATCAAATGA (SEQ ID NO: 69)

Fig. 84A

EVQLVES GGGLAKPGGSLRLS CAASGFRFTFNYY MDWVRQAPGQGLEW VSRI S
 SSGDPTW YADSVKGRFTISRE NAKNTLFLQMNSLR AEDTAVYYCASLTT GSDSW
 GQGVLT VSSGGGSGGGGSG GGSIDIQMTQSPSS LSASVGDRVTITCR ASQDI
 RYYLNWY QQKPGKAPKLLIYV ASSLQSGVPSRFSG SGSGTEFTTLTVSSL QPEDF
 ATYYCLQ VYSTPRTFGQGTKV EIK*
 (SEQ ID NO: 70)

Fig. 84B

*Fig. 85*

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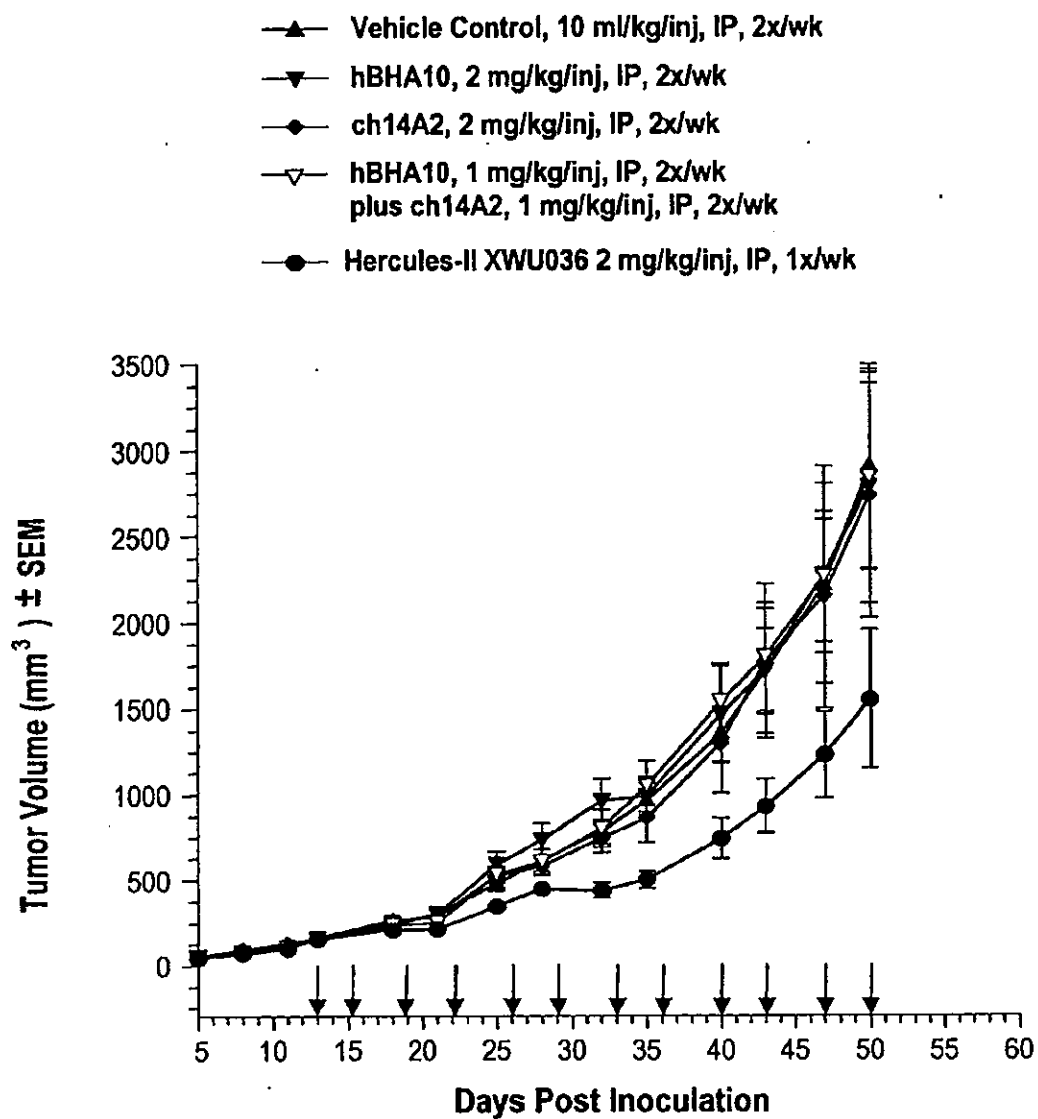


Fig. 86

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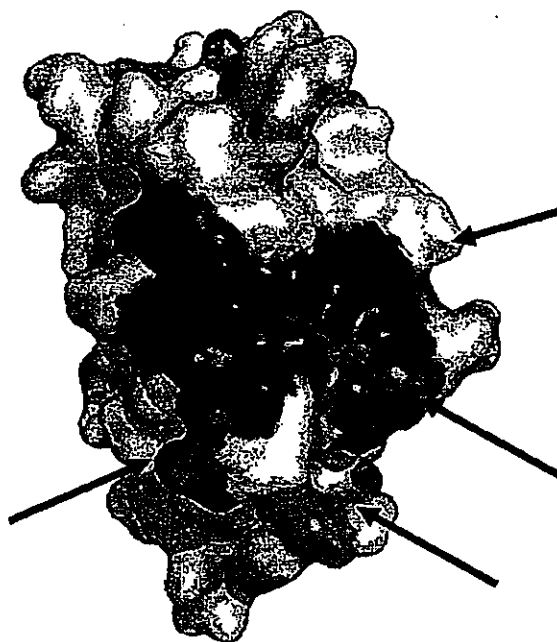


Fig. 87A

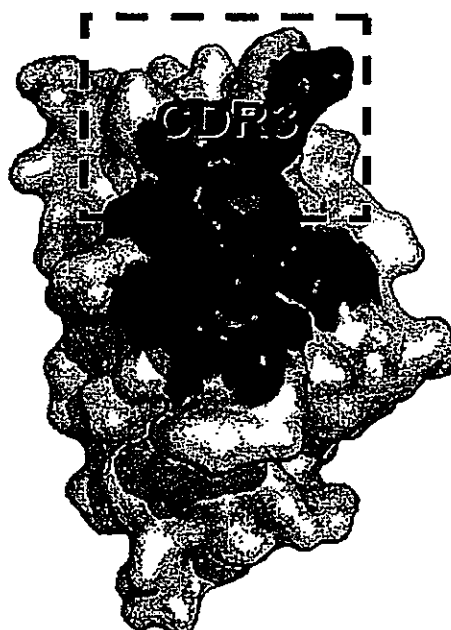


Fig. 87B

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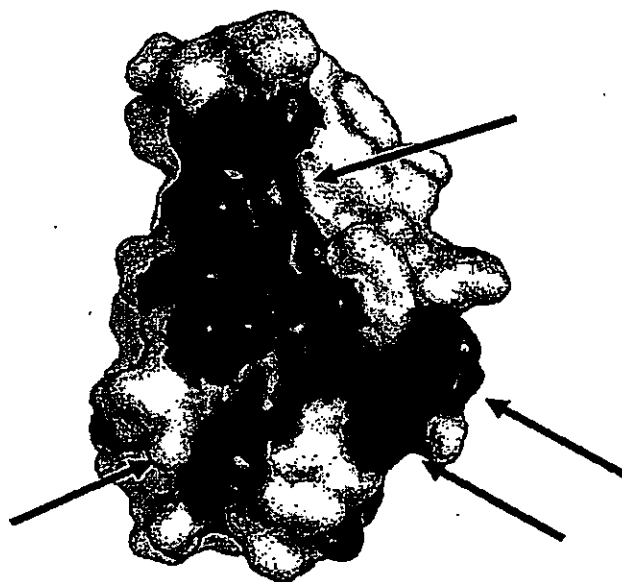


Fig. 88A



Fig. 88B

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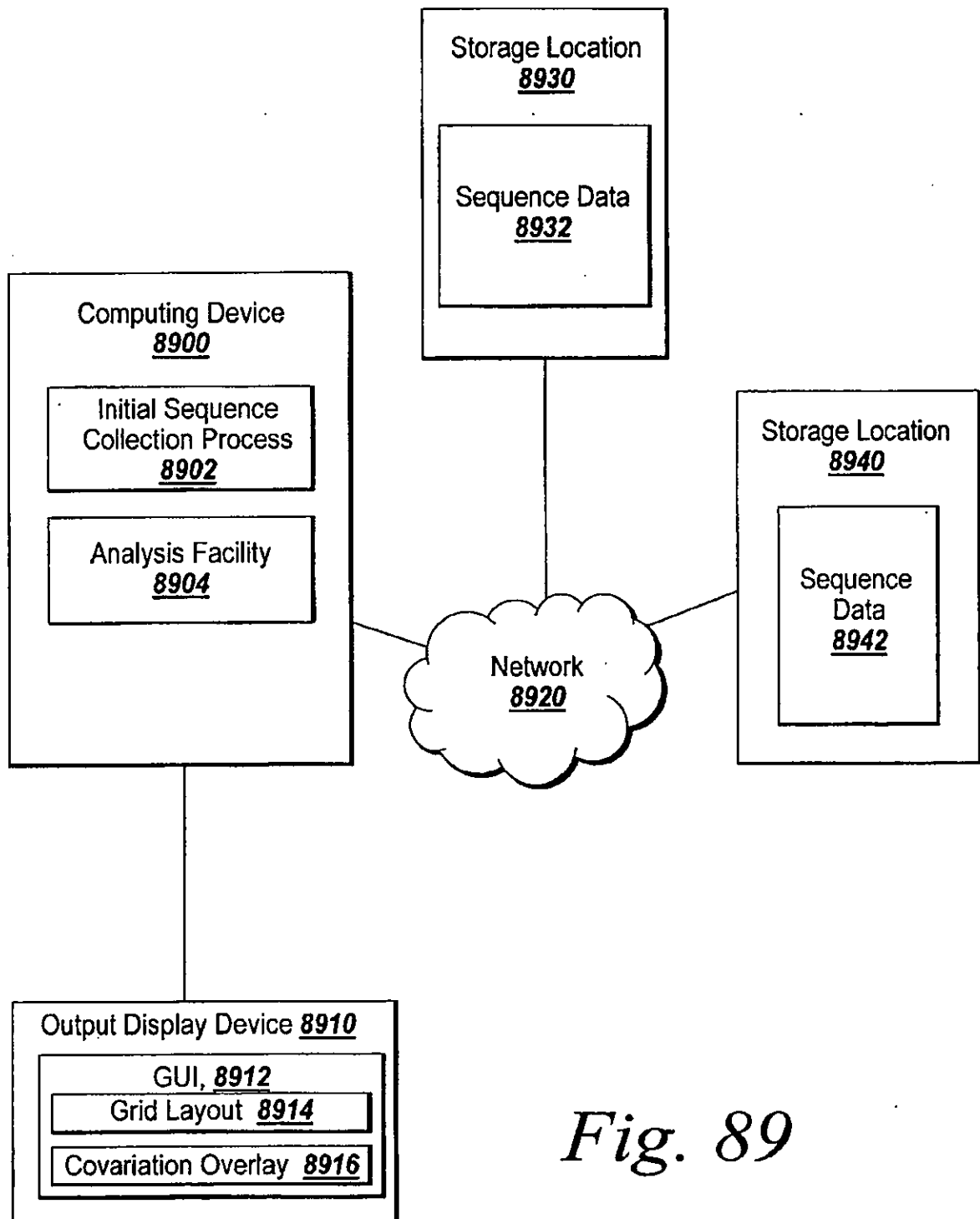


Fig. 89

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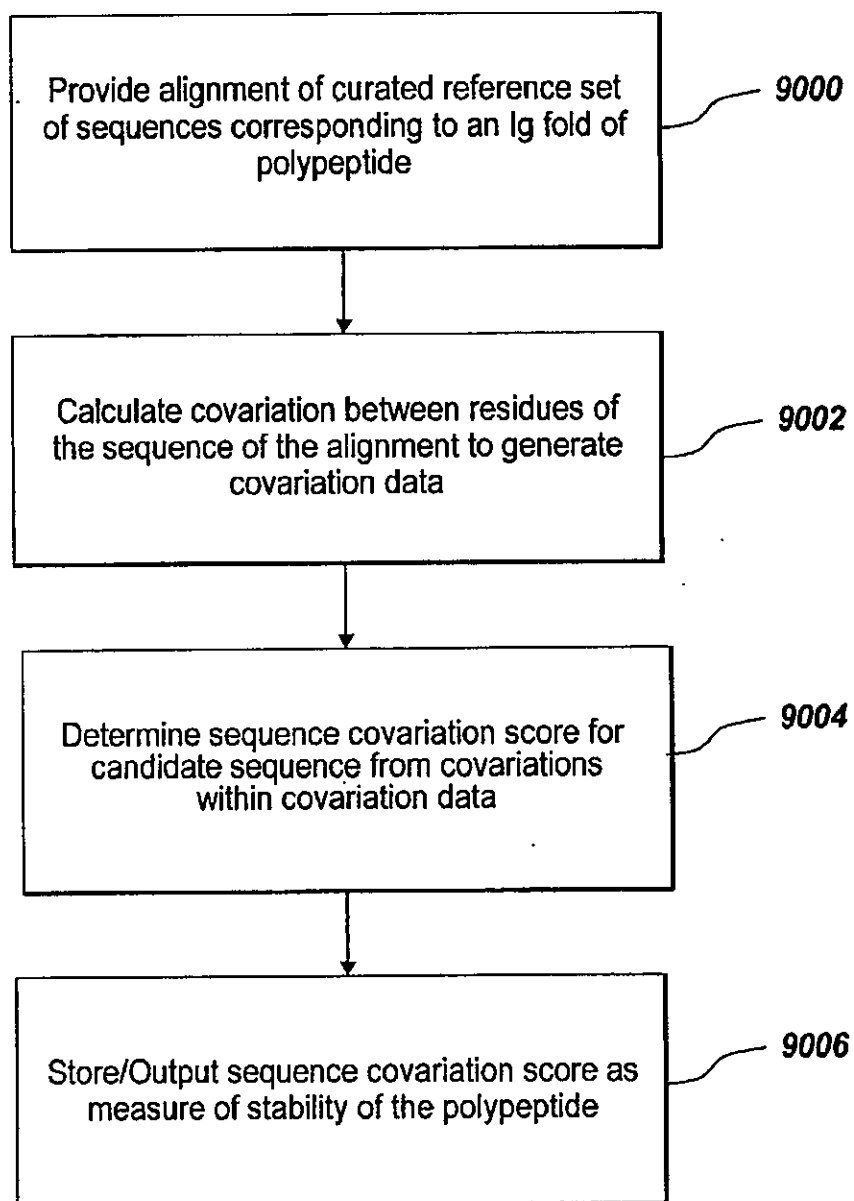
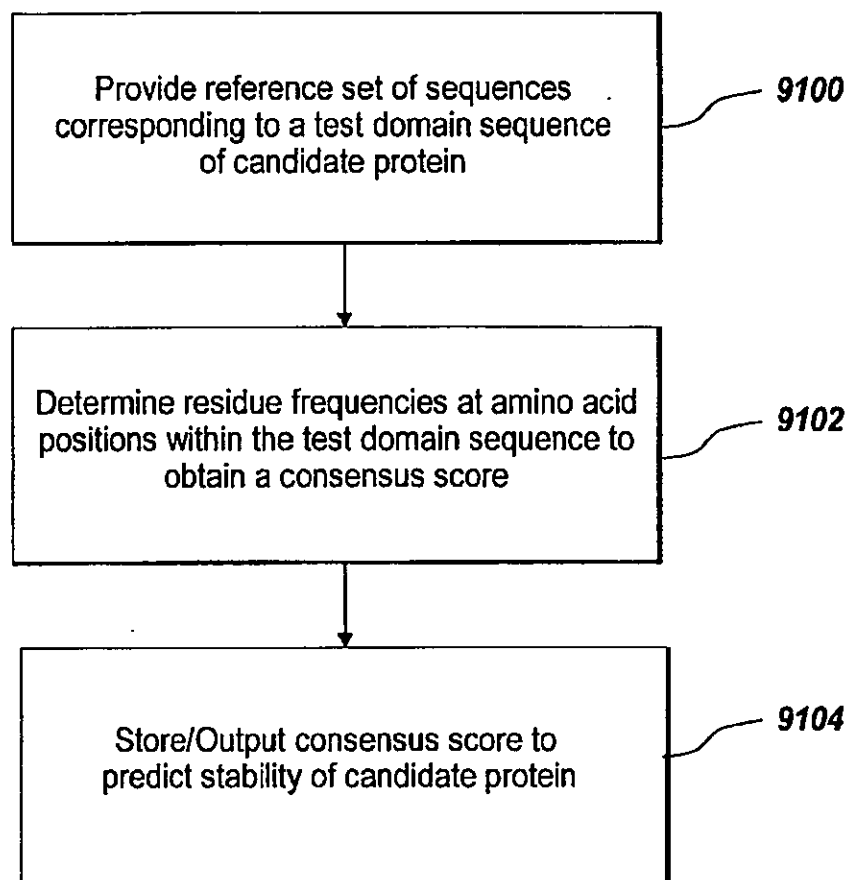


Fig. 90

*Fig. 91*

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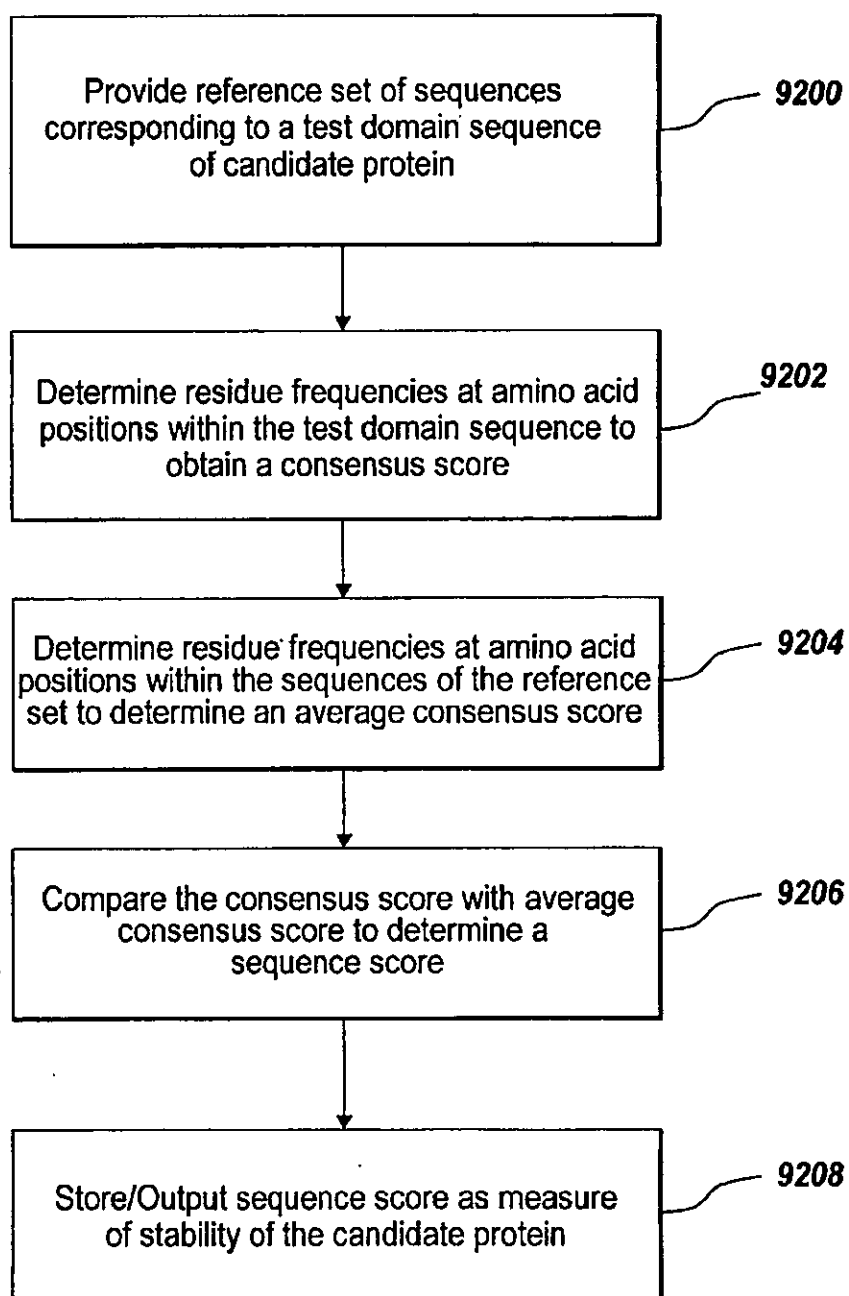
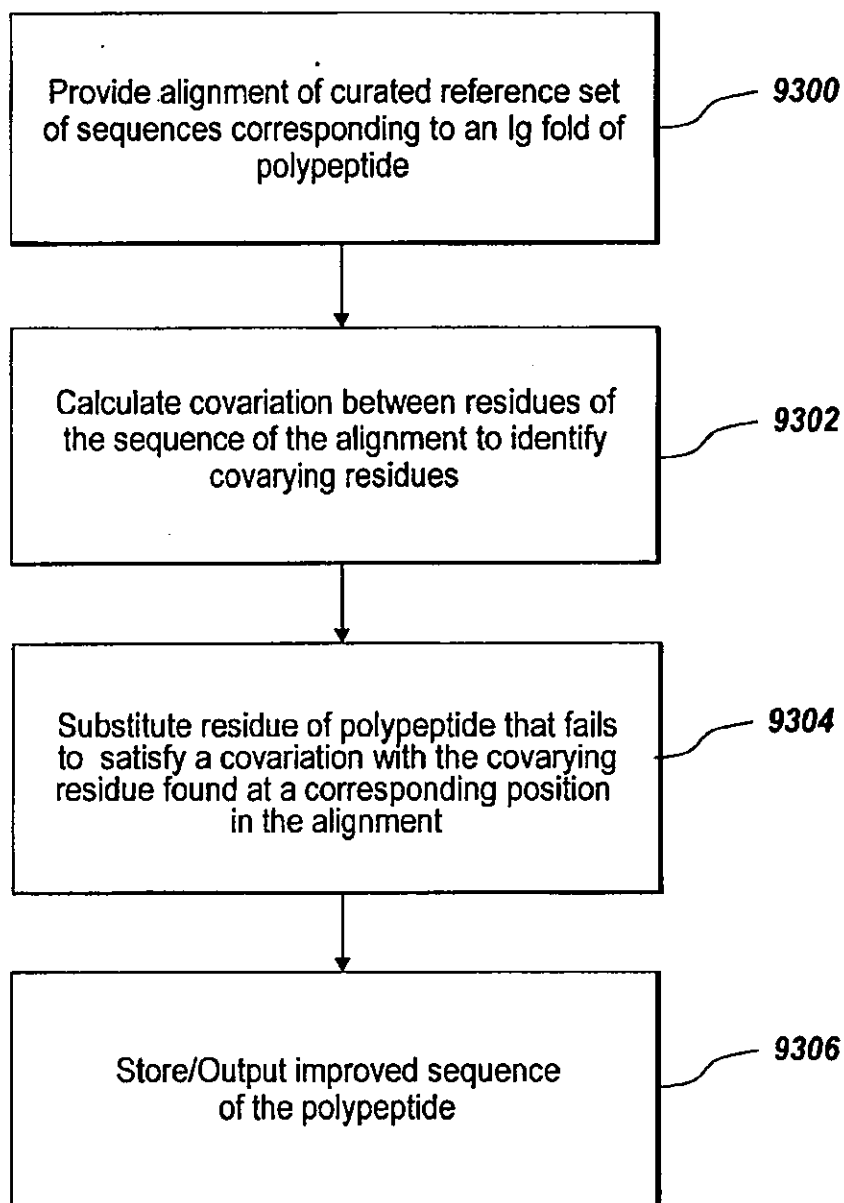


Fig. 92

*Fig. 93*

A

MKKLLFAIPLVVPFYSHSQVQLVQSGAEVKKPGSSVKVSCKASGYTFT
TYYLHWVRQAPGQGLEWMGWIYPGNVHAQYNEKFKGRVTITADKSTST
AYMELSSLRSEDVAVYYCARSWEGFPYWGQGTTVTVSSGGGGSGGGGS
GGGGSGGGGSDIQMTQSPSSLSASVGDRVTITCKASQNVGINVAWYQQ
KPGKAPKSLISSASYRYSQVPSRFSGSGSGTDFTLTISSLQPEDFATY
FCQQYDITYPFTFGQGTKVEIKDDDDKSFLEQKLISEEDLNSAVDHHHH
HH* (SEQ ID NO: 3)

B

MKKLLFAIPLVVPFYSHSQVQLVQSGAEVKKPGSSVKVSCKASGYTFT
TYYLHWVRQAPGQGLEWMGWIYPGNVHAQYNEKFKGRVTITADKSTST
AYMELSSLRSEDVAVYYCARSWEGFPYWGQGTTVTVSSGGGGSGGGGS
GGGGSGGGGSDIQMTQSPSSLSASVGDRVTITCKASQNVGINVAWYQQ
KPGKAPKSLISSASYRYSQVPSRFSGSGSGTDFTLTISSLQPEDFATY
FCQQYDITYPFTFGQGTKVEIKDDDDKSFLEQKLISEEDLNSAVDHHHH
HH* (SEQ ID NO: 4)

Fig. 94