

hHcrA1 (full)_Q92743	1	MQIPRAALLPALLLLI	AAAPASQLSRRGERSAPLAAGCDRCCEPACPCPEHCEGGRR	59
cyno. HcrA1	1	MQIPRAALLPALLLLI	AAAPASQLSRRGERSAPLAAGCDRCCEPACPCPEHCEGGRR	60
mouse HcrA1_Q9R118	1	MQSIRITLLSLALLLI	AAFSLLPFGSISRSAPPAIVCPPEHCDPTRCAEFFTDCEGGRVR	59
Rat HTRAI_Q9QZK5	1	MQFLIRALLSLALLLI	AAFSLLPFGSISRSAPPAIVCPPEHCDPTRCAEFFTDCEGGRVR	59
hHcrA1 (full)_Q92743	60	DACGCEVCGAPEGAA	CGLQEGPCGEGLCQVVPFGVPASATVRRRAQAAGLCVCASSEPVC	119
cyno. HcrA1	61	DACGCEVCGAPEGAA	CGLQEGPCGEGLCQVVPFGVPASATVRRRAQAAGLCVCASSEPVC	120
mouse HcrA1_Q9R118	60	DACGCEVCGAPEGAA	CGLQEGPCGEGLCQVVPFGVPASATVRRRAQAAGLCVCASSEPVC	119
Rat HTRAI_Q9QZK5	60	DACGCEVCGAPEGAA	CGLQEGPCGEGLCQVVPFGVPASATVRRRAQAAGLCVCASSEPVC	119
hHcrA1 (full)_Q92743	120	GSDANTYANLCQLRAASRRSEELHR	PEVIVLQRGACGGQGEDPNSLRHKYNFIADWVEKI	179
cyno. HcrA1	121	GSDANTYANLCQLRAASRRSEELHR	PEVIVLQRGACGGQGEDPNSLRHKYNFIADWVEKI	180
mouse HcrA1_Q9R118	120	GSDAKTYTNLCQLRAASRRSEELRQ	PEVIVLQRGACGGQGEDPNSLRHKYNFIADWVEKI	179
Rat HTRAI_Q9QZK5	120	GSDAKTYTNLCQLRAASRRSEELRQ	PEVIVLQRGACGGQGEDPNSLRHKYNFIADWVEKI	179
hHcrA1 (full)_Q92743	180	APAVWHIELRKL	PFSKREVPVVASGSGFTVSEDGLIVTNAHVVTNKRVRKVELKNGATYE	239
cyno. HcrA1	181	APAVWHIELRKL	PFSKREVPVVASGSGFTVSEDGLIVTNAHVVTNKRVRKVELKNGATYE	240
mouse HcrA1_Q9R118	180	APAVWHIELRKL	PFSKREVPVVASGSGFTVSEDGLIVTNAHVVTNKRVRKVELKNGATYE	239
Rat HTRAI_Q9QZK5	180	APAVWHIELRKL	PFSKREVPVVASGSGFTVSEDGLIVTNAHVVTNKRVRKVELKNGATYE	239
hHcrA1 (full)_Q92743	240	AKIKDVDEKADIALIKIDHQGKLPVLL	LLGRSSELRPGEFVVAIGSPFSLQNIVTIGIVSI	299
cyno. HcrA1	241	AKIKDVDEKADIALIKIDHQGKLPVLL	LLGRSSELRPGEFVVAIGSPFSLQNIVTIGIVSI	300
mouse HcrA1_Q9R118	240	AKIKDVDEKADIALIKIDHQGKLPVLL	LLGRSSELRPGEFVVAIGSPFSLQNIVTIGIVSI	299
Rat HTRAI_Q9QZK5	240	AKIKDVDEKADIALIKIDHQGKLPVLL	LLGRSSELRPGEFVVAIGSPFSLQNIVTIGIVSI	299

Figure 1 (A)

hHcrA1 (full)_Q92743	300	TORGKELGLRNSDMYIQIDAIINYGNSSGGLVNLDSGEVIGINTLKVTAGISFAIPSDK	359
cyno. HcrA1	301	TORGKELGLRNSDMYIQIDAIINYGNSSGGLVNLDSGEVIGINTLKVTAGISFAIPSDK	360
mouse HcrA1_Q9R118	300	TORGKELGLRNSDMYIQIDAIINYGNSSGGLVNLDSGEVIGINTLKVTAGISFAIPSDK	359
Rat HTRAI_Q9Q2K5	300	TORGKELGLRNSDMYIQIDAIINYGNSSGGLVNLDSGEVIGINTLKVTAGISFAIPSDK	359
.....			
hHcrA1 (full)_Q92743	360	IKKELTESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIIEVIP	419
cyno. HcrA1	361	IKKELTESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIIEVIP	420
mouse HcrA1_Q9R118	360	IKKELTESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIIEVIP	419
Rat HTRAI_Q9Q2K5	360	IKKELTESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIIEVIP	419
.....			
hHcrA1 (full)_Q92743	420	DTPAEAGGLKENDVLIISINGQSVVLSANDVSDVIKRESLTLMVWVRGNEDIMITVI	479
cyno. HcrA1	421	DTPAEAGGLKENDVLIISINGQSVVLSANDVSDVIKRESLTLMVWVRGNEDIMITVI	480
mouse HcrA1_Q9R118	420	DTPAEAGGLKENDVLIISINGQSVVLSANDVSDVIKRESLTLMVWVRGNEDIMITVI	479
Rat HTRAI_Q9Q2K5	420	DTPAEAGGLKENDVLIISINGQSVVLSANDVSDVIKRESLTLMVWVRGNEDIMITVI	479
.....			
hHcrA1 (full)_Q92743	480	P	480
cyno. HcrA1	481	P	481
mouse HcrA1_Q9R118	480	P	480
Rat HTRAI_Q9Q2K5	480	P	480

Figure 1 (B)

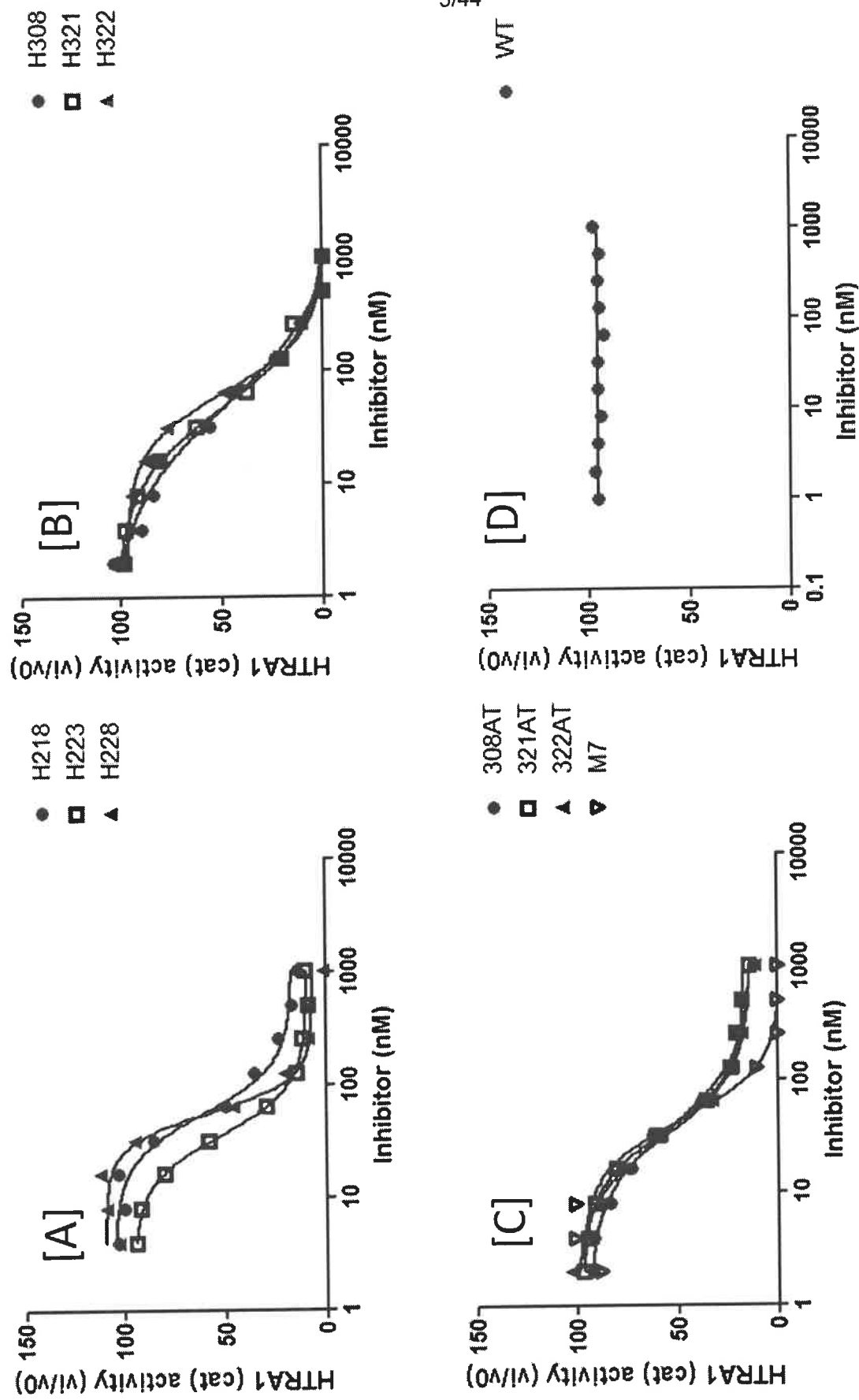


Figure 2

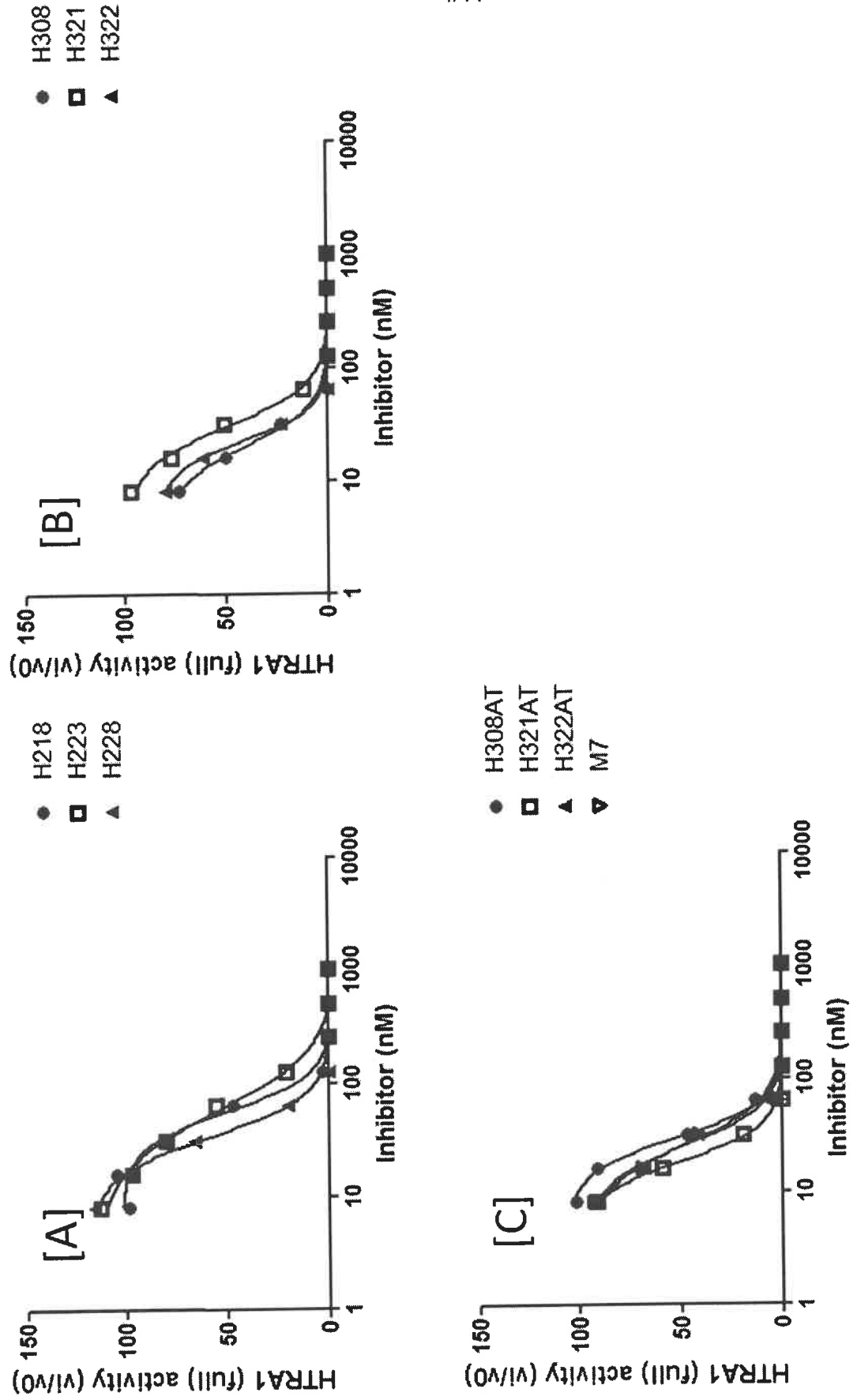


Figure 3

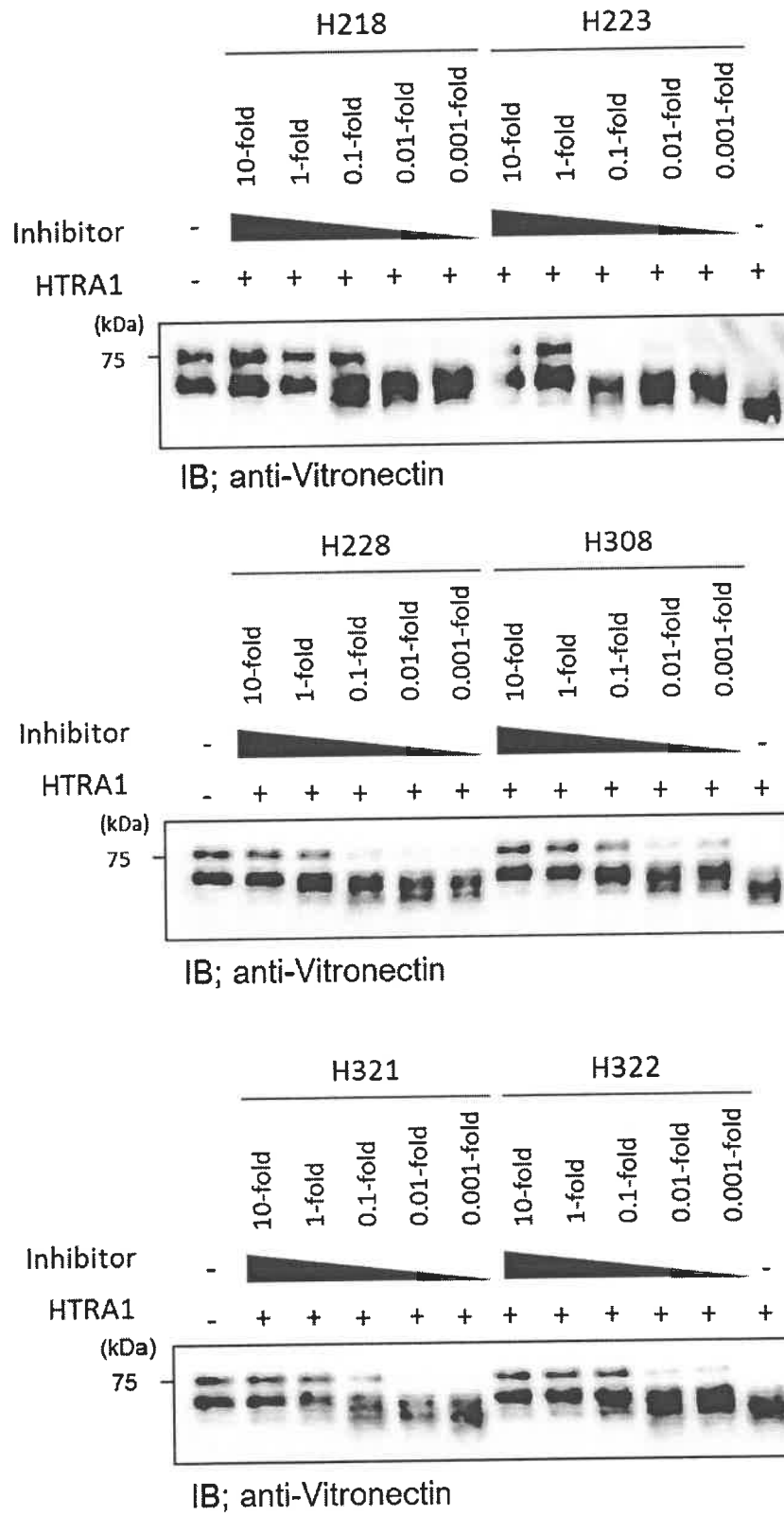


Figure 4 (A)

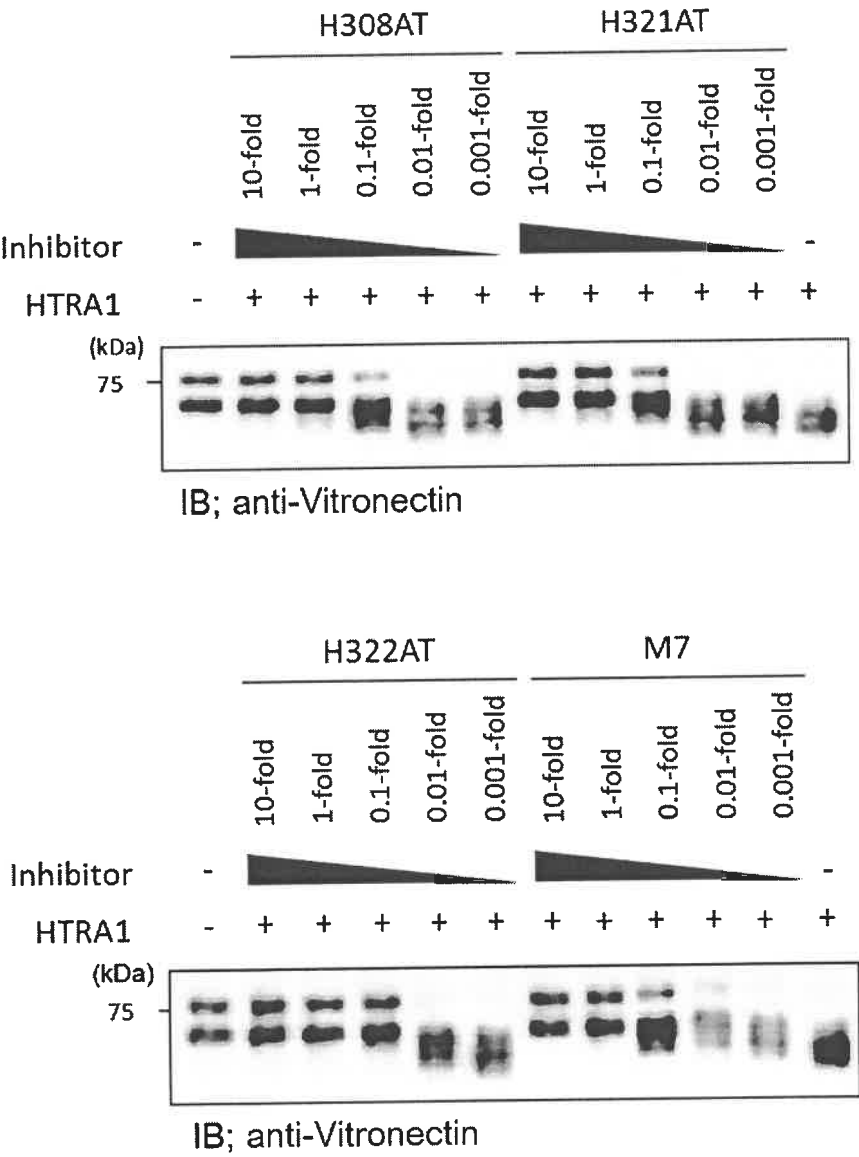


Figure 4 (B)

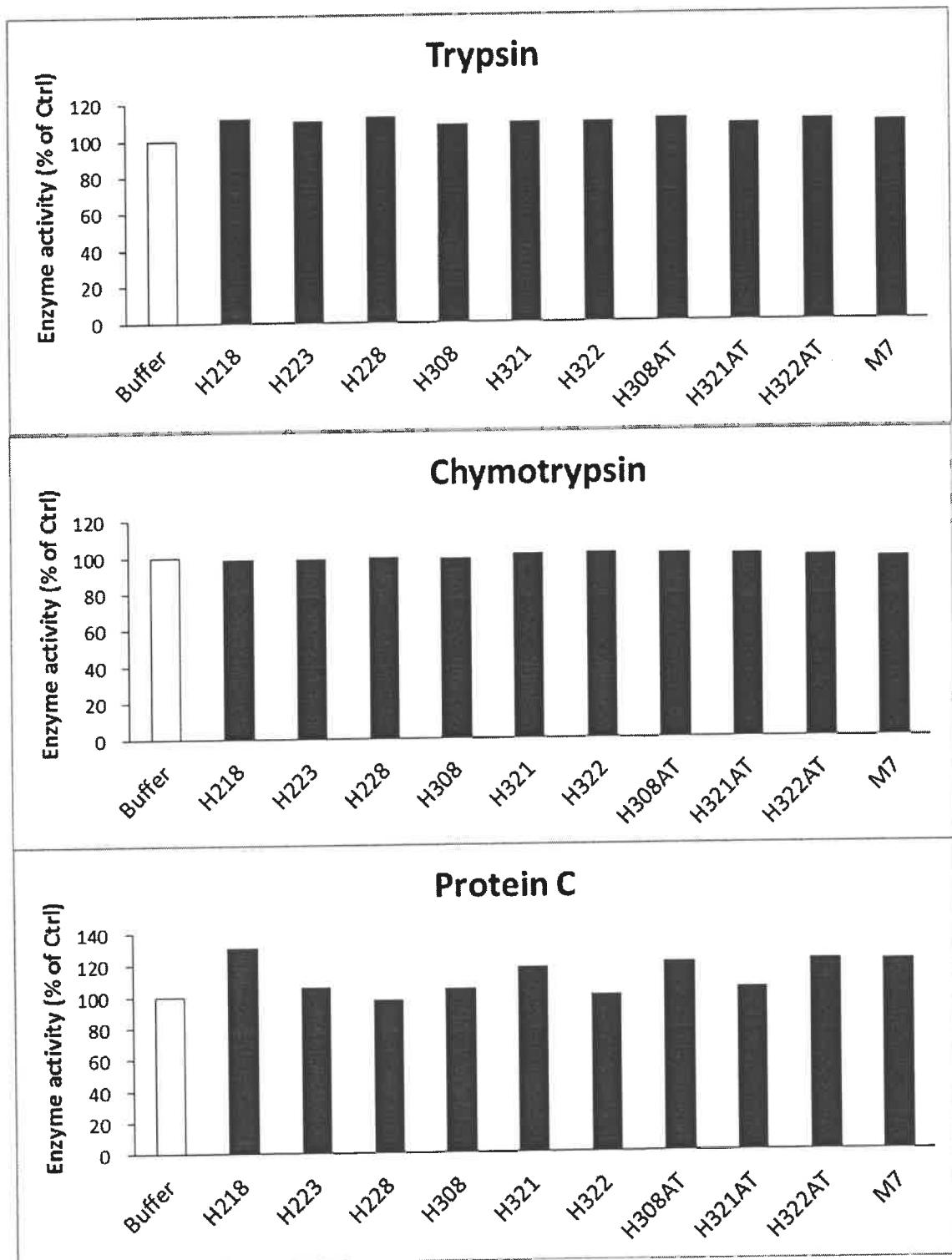


Figure 5 (A)

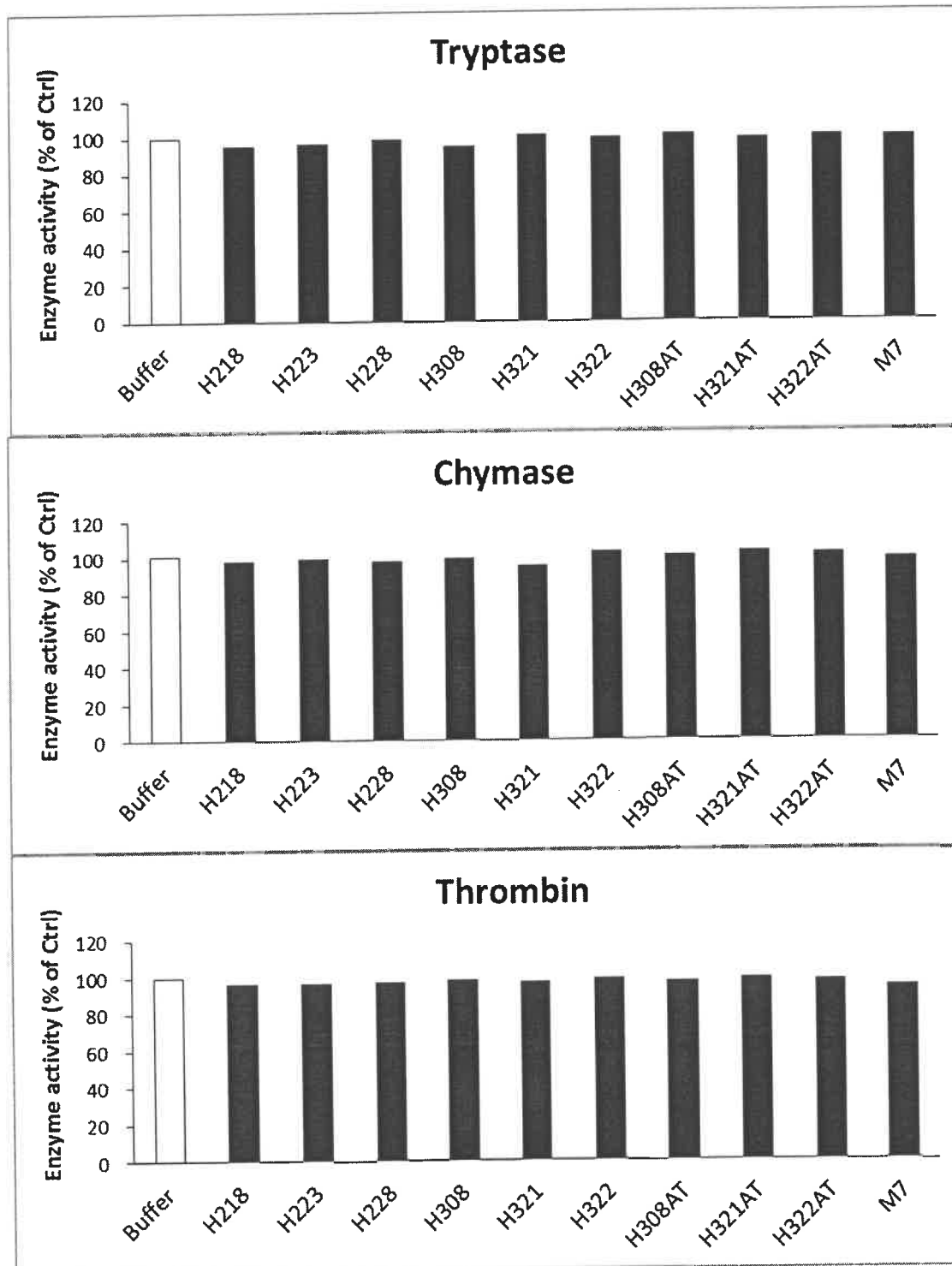


Figure 5 (B)

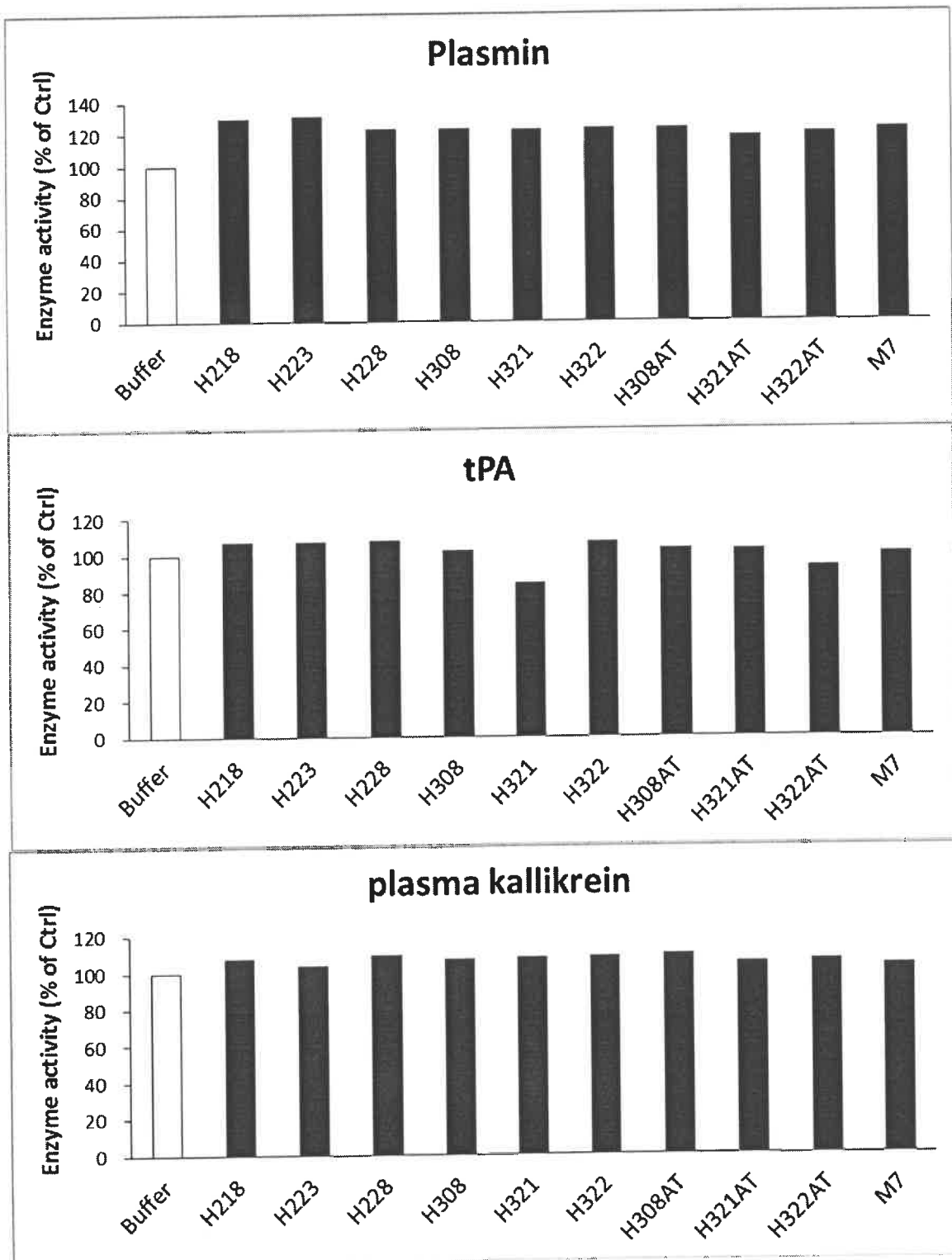


Figure 5 (C)

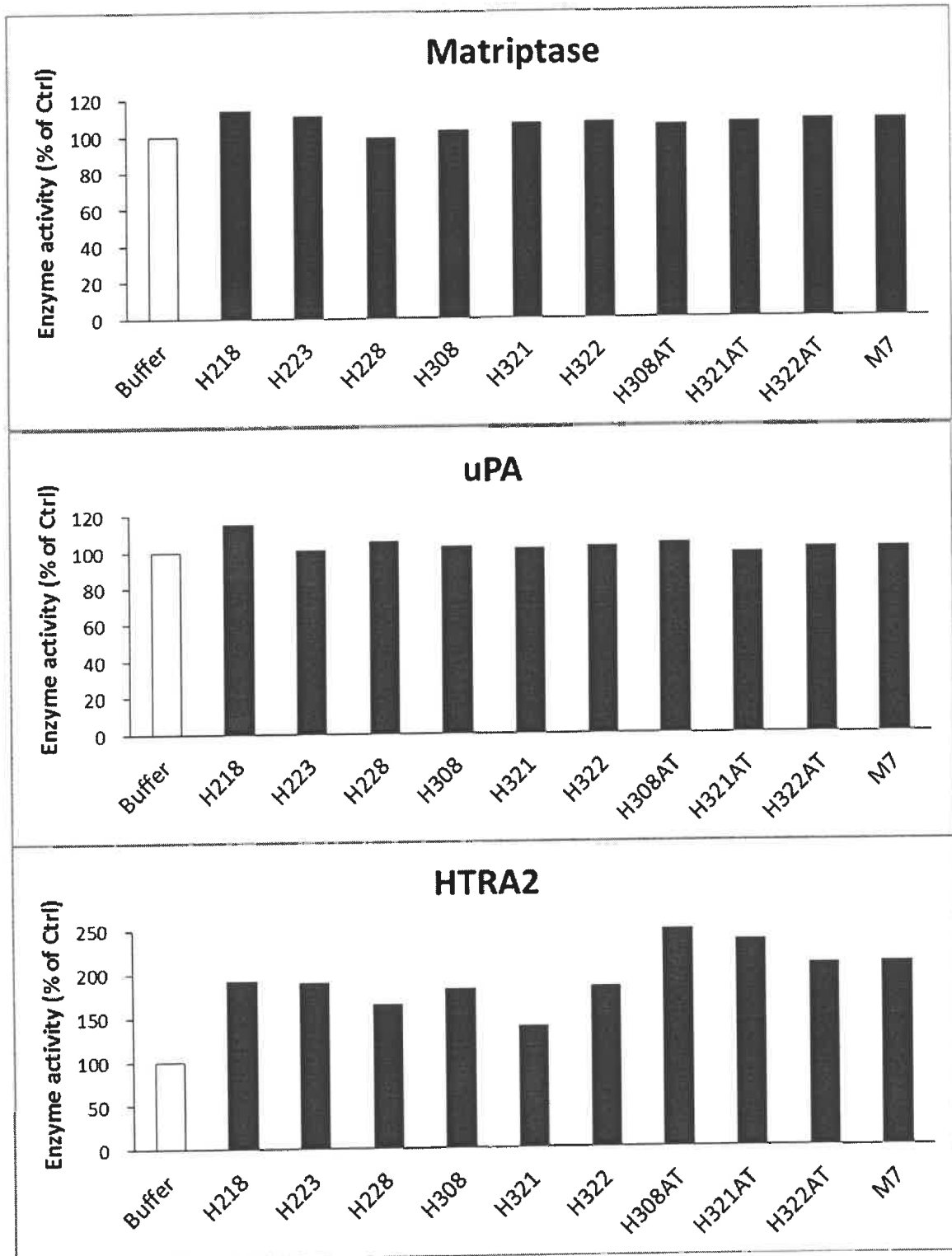


Figure 5 (D)

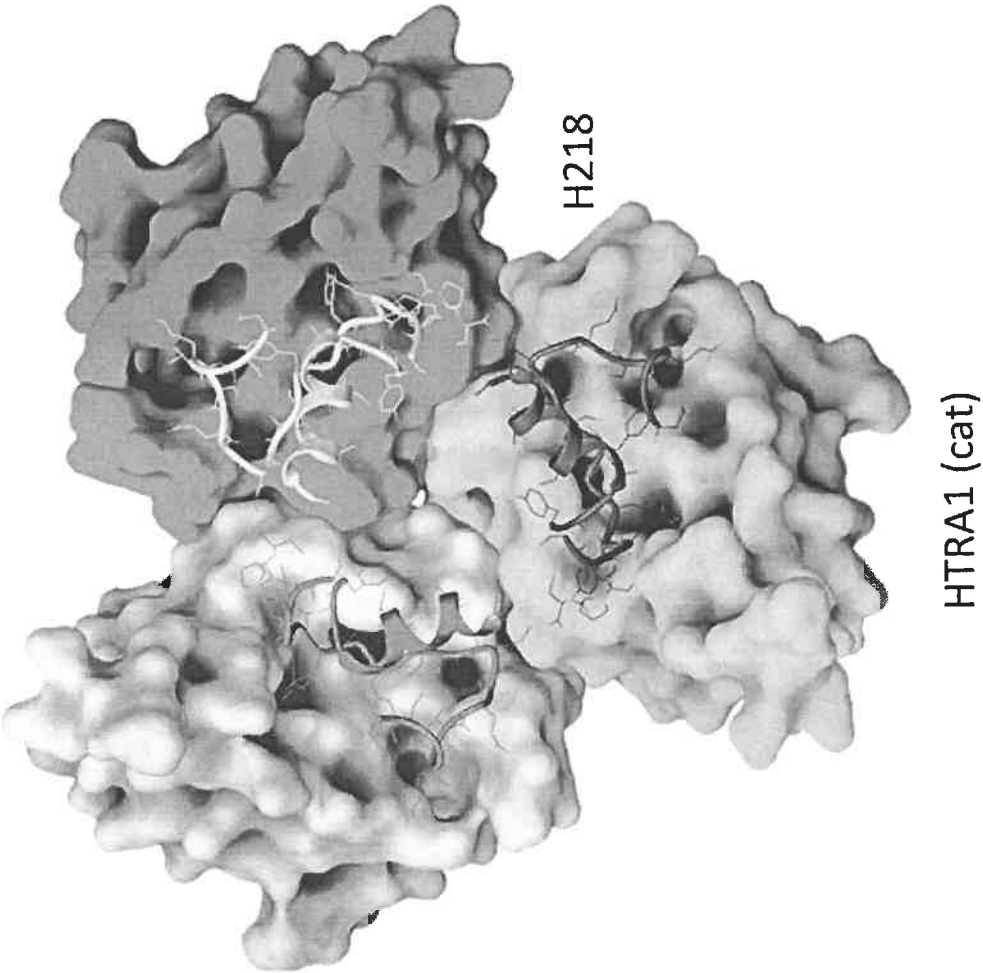


Figure 6



Figure 7

[F i g u r e 8]

H2-Opt

M c a - I R R V S Y S F K (D n p) K (S E Q I D N O : 5 4)



Figure 9

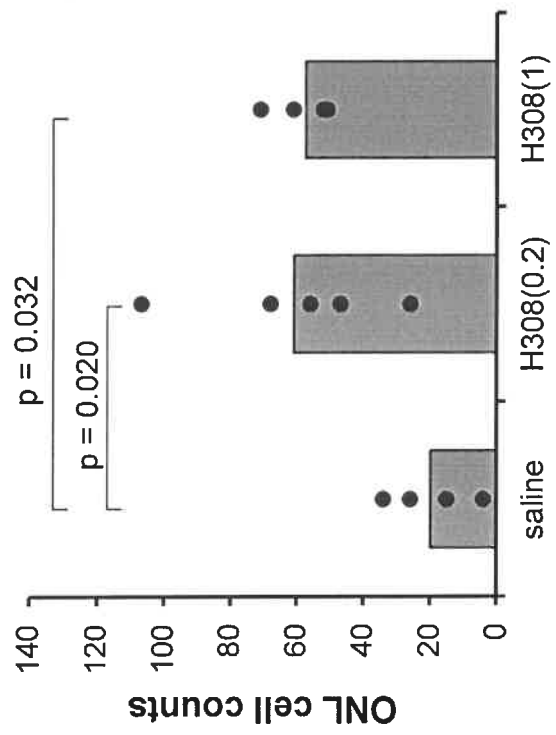


Figure 10

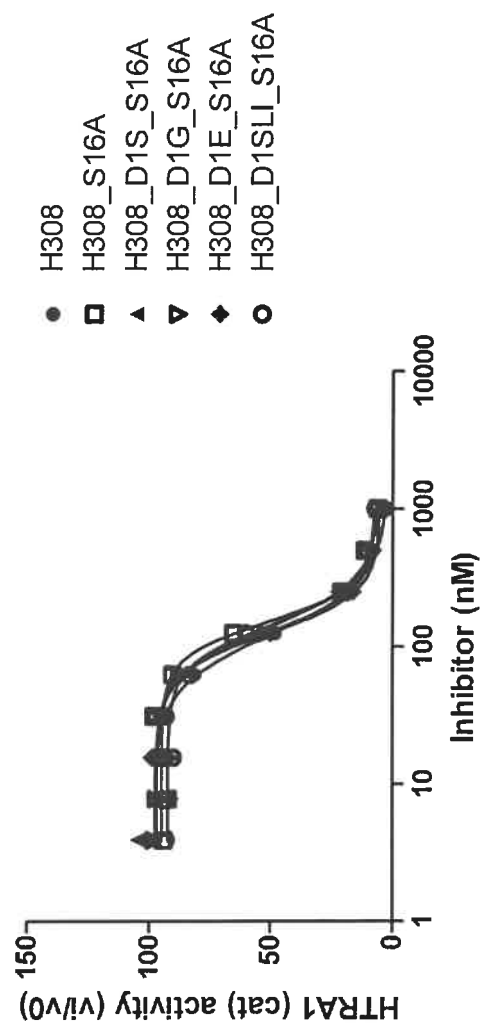


Figure 11

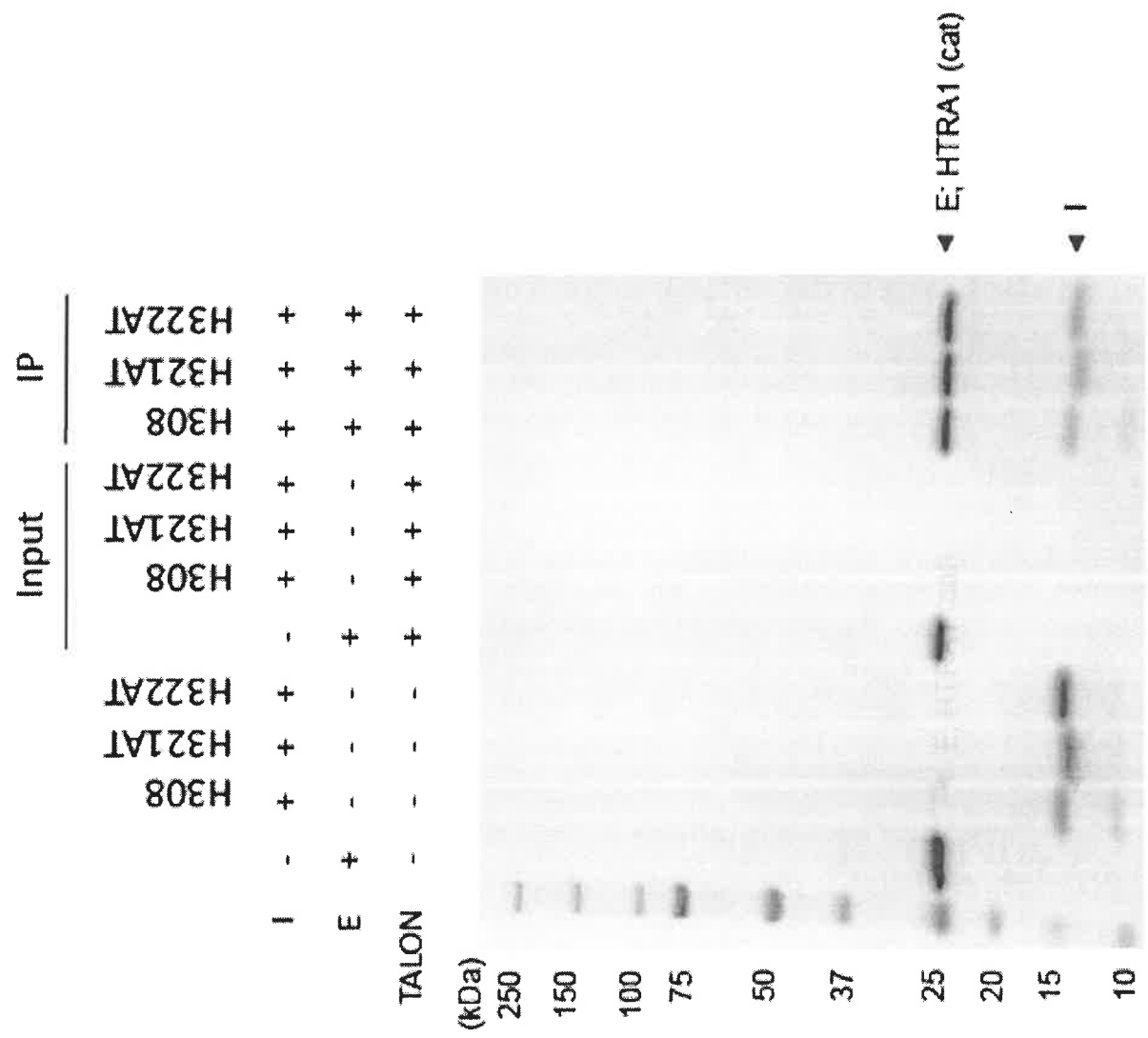


Figure 12

[Figure 13]

human SPINK2

DPQFGLFSKYRTPNCSQYRLPGCPRHFNVPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPC (SEQ ID
NO: 1)

[Figure 14]

human SPINK2

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCCAGTATCGTCTGCCTGGTTGTC
CGCGTCATTTTAATCCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCTAA (SEQ ID NO: 2)

[Figure 15]

HTRA1-inhibiting peptide H218

DPQFGLFSKYRTPNCLKSEGMACYAYYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 3)

[Figure 16]

HTRA1-inhibiting peptide H218

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTCTGAAATCTGAAGGTATGGCTTGTT
ACGCTTACTACGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO: 4)

[Figure 17]

HTRA1-inhibiting peptide H223

DPQFGLFSKYRTPNCTMDMGMACWAFYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 5)

[Figure 18]

HTRA1-inhibiting peptide H223

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTACTATGGACATGGGTATGGCTTGTT
GGGCTTTCTACGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO: 6)

[Figure 19]

HTRA1-inhibiting peptide H228

DPQFGLFSKYRTPNCGHYNGWACQAFFEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 7)

[Figure 20]

HTRA1-inhibiting peptide H228

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTGGTCATTACAACGGTTGGGCTTGTC
AGGCTTTCTTCGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO: 8)

[Figure 21]

HTRA1-inhibiting peptide H308

DPQFGLFSKYRTPNCSDHAGMACVALYEPVCGSDM
STYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 9)

[Figure 22]

HTRAl-inhibiting peptide H308

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCGACCATGCTGGTATGGCATGTG
TTGCTCTGTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGAAAATGAATGTGTTCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:10)

[Figure 23]

HTRAl-inhibiting peptide H321

DPQFGLFSKYRTPNCSDFDGMACYAFYEPVCGSDM
STYMNECALCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:11)

[Figure 24]

HTRAl-inhibiting peptide H321

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCGACTTCGACGGTATGGCATGTT
ACGCTTTCTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATATGAATGAATGTGCTCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:12)

[Figure 25]

HTRAl-inhibiting peptide H322

DPQFGLFSKYRTPNC SQHEGMACYALYEPVCGSDM
STYVNECALCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:13)

[Figure 26]

HTRAl-inhibiting peptide H322

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCCAGCATGAAGGTATGGCATGTT
ACGCTCTGTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGTTAATGAATGTGCTCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTTAAAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:14)

[Figure 27]

HTRAl-inhibiting peptide H308AT

DPQFGLFSKYRTPNCSDHAGMACVALYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:15)

[Figure 28]

HTRAl-inhibiting peptide H308AT

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCGACCATGCTGGTATGGCATGTG
TTGCTCTGTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTTAAAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:16)

[Figure 29]

HTRAl-inhibiting peptide H321AT

DPQFGLFSKYRTPNCSDFDGMACYAFYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:17)

[Figure 30]

HTRA1-inhibiting peptide H321AT
GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCGACTTCGACGGTATGGCATGTT
ACGCTTTCTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:18)

[Figure 31]

HTRA1-inhibiting peptide H322AT
DPQFGLFSKYRTPNCSQHEGMACYALYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:19)

[Figure 32]

HTRA1-inhibiting peptide H322AT
GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCCAGCATGAAGGTATGGCATGTT
ACGCTCTGTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAATAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO:20)

[Figure 33]

HTRA1-inhibiting peptide M7
DPQFGLFSKYRTPNCSDHAGMACVAFYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO:21)

[Figure 34]

HTRA1-inhibiting peptide M7

GATCCGCAGTTTGGTCTGTTTAGCAAATATCGTAC
CCCGAATTGTAGCGACCATGCTGGTATGGCATGTG
TTGCTTTTTTATGAACCGGTTTGTGGTAGCGATATG
AGCACCTATGCAAATGAATGTACCCTGTGCATGAA
AATTCGTGAAGGTGGCCATAATATTAAAATTATTC
GCAATGGTCCGTGCGGCGGCTAA (SEQ ID NO: 22)

[Figure 35]

HTRA1-inhibiting peptide H308_S16A

DPQFGLFSKYRTPNCADHAGMACVALYEPVCGSDM
STYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 23)

[Figure 36]

HTRA1-inhibiting peptide H308_D1G_S
16A

GPQFGLFSKYRTPNCADHAGMACVALYEPVCGSDM
STYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 24)

[Figure 37]

HTRA1-inhibiting peptide H308_D1S_S
16A

SPQFGLFSKYRTPNCADHAGMACVALYEPVCGSDM
STYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 25)

[Figure 38]

HTRA1-inhibiting peptide H308_D1E_S
16A

EPQFGLFSKYRTPNCADHAGMACVALYEPVCGSDM
STYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 26)

[Figure 39]

HTRA1-inhibiting peptide H308_D1SLI
_S16A
SLIPQFGLFSKYRTPNCADHAGMACVALYEPVCGS
DMSTYENECVLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 27)

[Figure 40]

H321AT_D1G_S16A
GPQFGLFSKYRTPNCADFDGMACYAFYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 28)

[Figure 41]

H322AT_D1G_S16A
GPQFGLFSKYRTPNCAQHEGMACYALYEPVCGSDM
STYANECTLCMKIREGGHNIKIIRNGPCGG (SEQ
ID NO: 29)

[Figure 42]

general formula of HTRA1-INHIBITING
PEPTIDE S
 $X_1PQFGLFSKYRTPNCX_2X_3X_4X_5GX_6ACX_7AX_8X_9EP$
 $VCGSDMSTYX_{10}NECX_{11}LCMKIREGGHNIKIIRNG$
PC (SEQ ID NO: 30)

[Figure 43]

Stag+linker
GSGMKETAATAKFERQHMDSPDLGTDDDDKAMADIG
SANS (SEQ ID NO: 31)

[Figure 44]

C-terminal hexamer
GASAAA (SEQ ID NO: 32)

[Figure 45]

Primer 1

AAAAGAATTCTGATCCGCGAGTTTGGTCTGTTTAG
(SEQ ID NO: 33)

[Figure 46]

Primer 2

AAAAC TCGAGTTATGCGGCCGCGACGCGCCGCAC
GGACC (SEQ ID NO: 34)

[Figure 47]

Primer 3

AAAAGGATCCCTGGACAAACGTGATCCGCGAGTTTG
GTCTGTTTAG (SEQ ID NO: 35)

[Figure 48]

Primer 4

AAAAC TCGAGTTAGCCGCCGCACGGACCATTGCGA
ATAATTTTA (SEQ ID NO: 36)

[Figure 49]

Primer 5

AAACATATGGGGCAGGAAGATCCCAACAGTTTGC
(SEQ ID NO: 37)

[Figure 50]

Primer 6

AAACTCGAGTTTGGCCTGTCGGTCATGGGACTC (S
EQ ID NO: 38)

[Figure 51]

Primer 7

AAAAGAATTCGCCACCATGCAGATTCCTAGAGCCG
(SEQ ID NO: 39)

[Figure 52]

Primer 8

AAAAC TCGAGTCAGTGGTGATGGTGGTGGTGGCCG
G (SEQ ID NO: 40)

[Figure 53]

Primer 9

CTTGTCGTCATCGTCCTTG TAGTCGCCGGGGT CGA
TTTCCTC (SEQ ID NO: 41)

[Figure 54]

Primer 10

GCGACTACAAGGACGATGACGACAAGCACCACCAC
CATCATCAC (SEQ ID NO: 42)

[Figure 55]

Primer 11

AAAAA C TCGAGCTAGTGATGATGGTGGTGGTGCTT
GTCGTC (SEQ ID NO: 43)

[Figure 56]

Primer 12

CCGCAGTTTGGTCTGTTTAGCAAATATCGTACCCC
GAATTGT (SEQ ID NO: 44)

[Figure 57]

Primer 13

GCCATACCAGCATGGTCCGCACAATTCGGGGGTACG
ATATTTGC (SEQ ID NO: 45)

[Figure 58]

Primer 14

GCGGACCATGCTGGTATGGCATGTGTTGCTCTGTA
TGAAC (SEQ ID NO: 46)

[Figure 59]

Primer 15

AAAAC TCGAGTTAGCCGCCGCACGGACCATTTGCGA
ATAA (SEQ ID NO: 47)

[Figure 60]

Primer 16

AAAAGGATCCCTGGACAAACGTGATCCGCAGTTTG
GTCTGTTTAG (SEQ ID NO: 48)

[Figure 61]

Primer 17

AAAAGGATCCCTGGACAAACGTGGCCCGCAGTTTG
GTCTGTTTAG (SEQ ID NO: 49)

[Figure 62]

Primer 18

AAAAGGATCCCTGGACAAACGTAGCCCGCAGTTTG
GTCTGTTTAG (SEQ ID NO: 50)

[Figure 63]

Primer 19

AAAAGGATCCCTGGACAAACGTGAACCGCAGTTTG
GTCTGTTTAG (SEQ ID NO: 51)

[Figure 64]

Primer 20

AAAAGGATCCCTGGACAAACGTAGCCTGATTCCGC
AGTTTGGTCTGTTTAG (SEQ ID NO: 52)

[Figure 65]

human HTRA1 (full)

QLSRAGRSAPLAAGCPDRCEPARCPPQPEHCEGGR
ARDACGCCCEVCGAPEGAACGLQEGPCGEGGLQCVVP
FGVPASATVRRRAQAGLCVCASSEPVCGSDANTYA
NLCQLRAASRRSERLHRPPVIVLQRGACGQGQEDP
NSLRHKYNFIADVVEKIAPAVVHIELFRKLPFSKR
EVPVASGSGFIVSEDGLIVTNAHVVTNKHVRVKVEL
KNGATYEAKIKDVDEKADIALIKIDHQGKLPVLLL
GRSSELRPGEFVVAIGSPFSLQNTVTTGIVSTTQR
GGKELGLRNSDMDYIQTDAILINYGNSSGGPLVNLDG
EVIGINTLKVTAGISFAIPSDKIKKFLTESHDRQA
KGKAITKKKYIGIRMMSLTSSKAKELKDRHRDFPD
VISGAYIIIEVIPDTPAEAGGLKENDVIIISINGQSV
VSANDVSDVIKRESTLNMVVRRGNEDIMITVIPLEE
IDP (SEQ ID NO: 53)

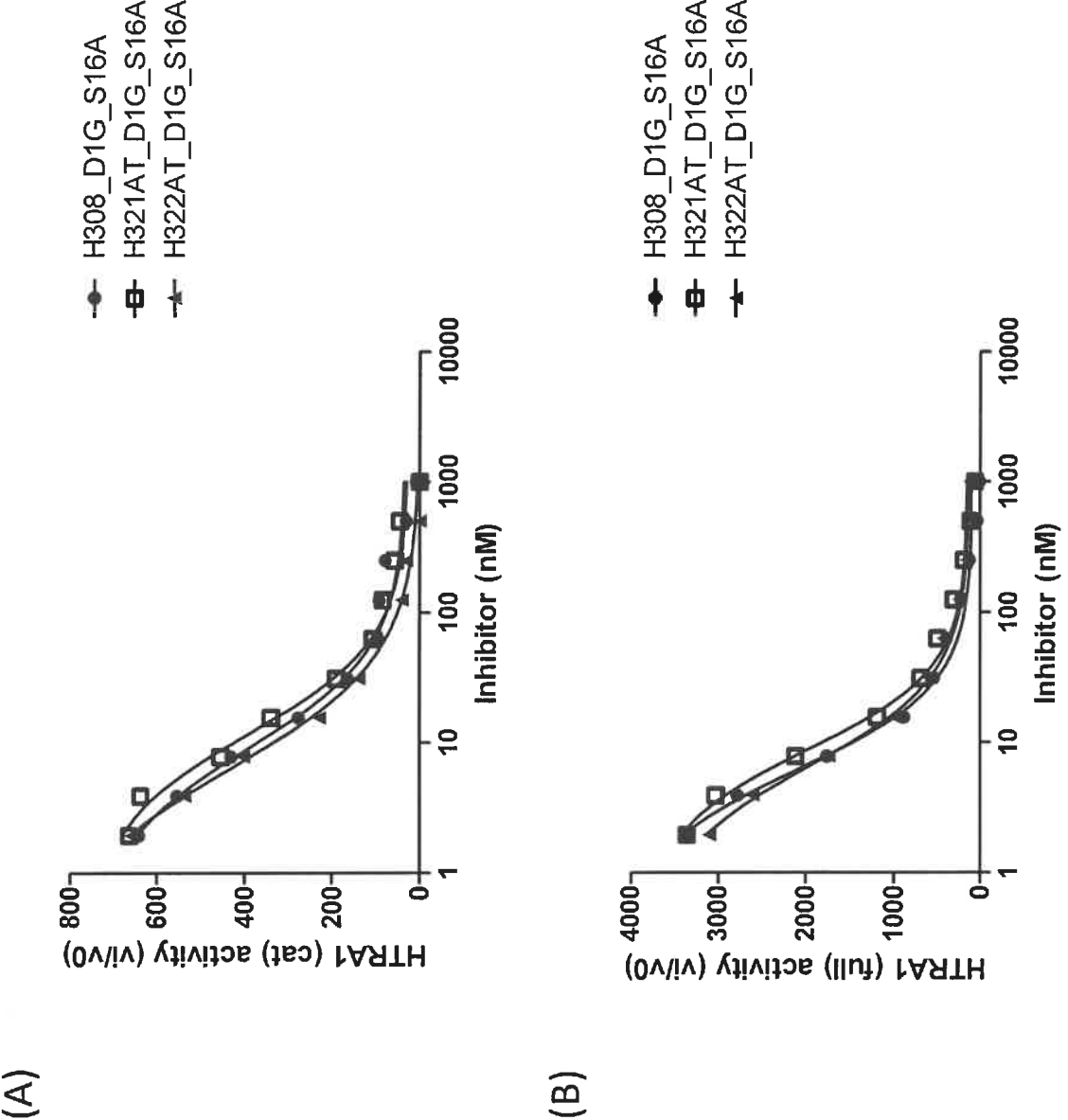


Figure 66

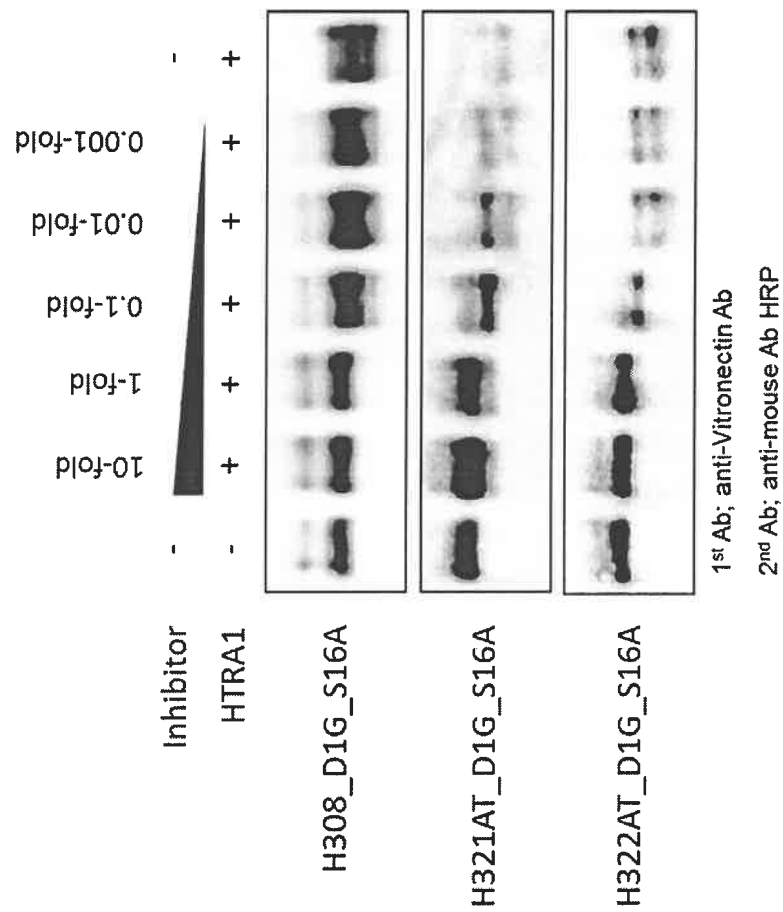


Figure 67

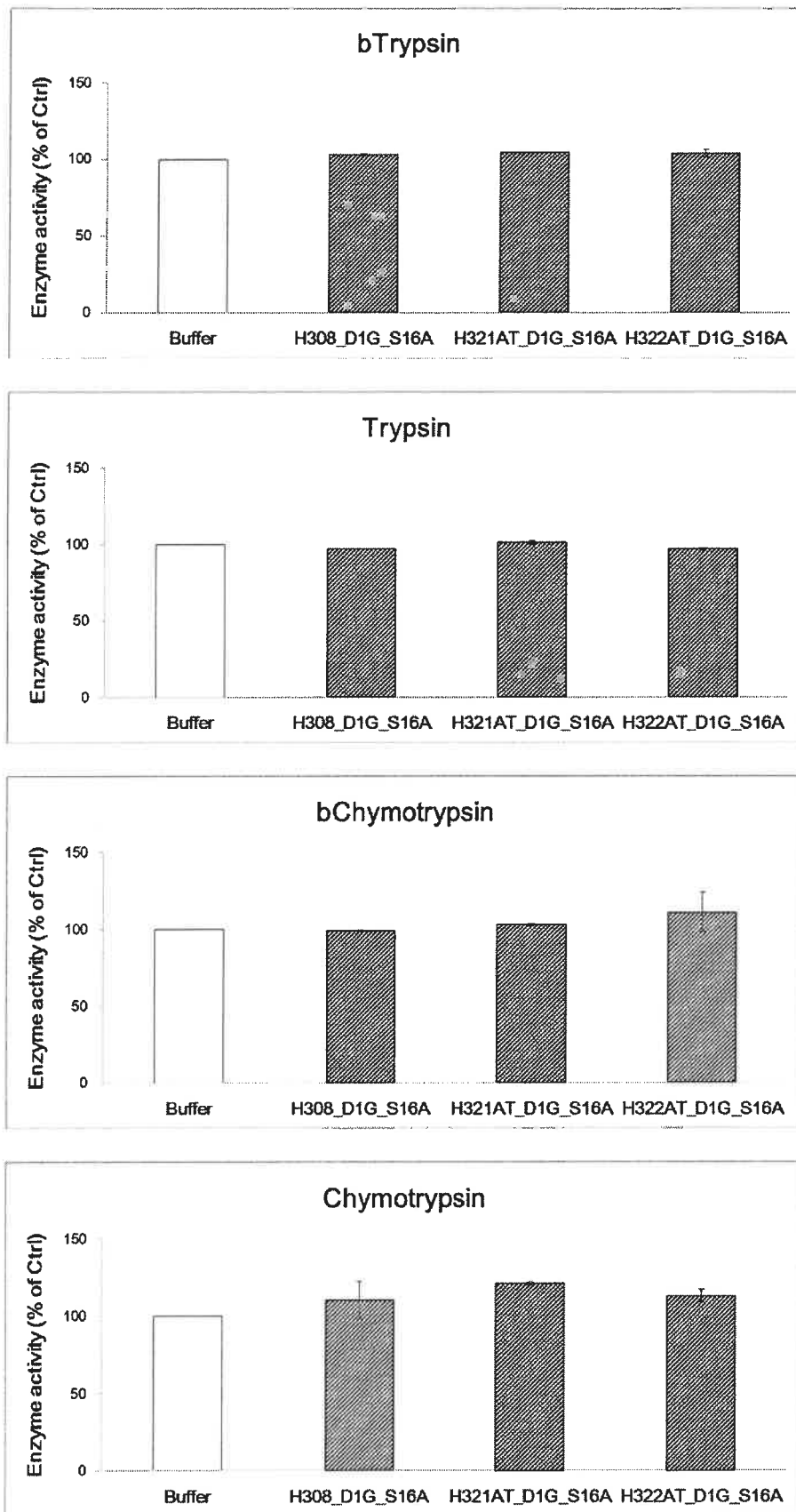


Figure 68 (A)

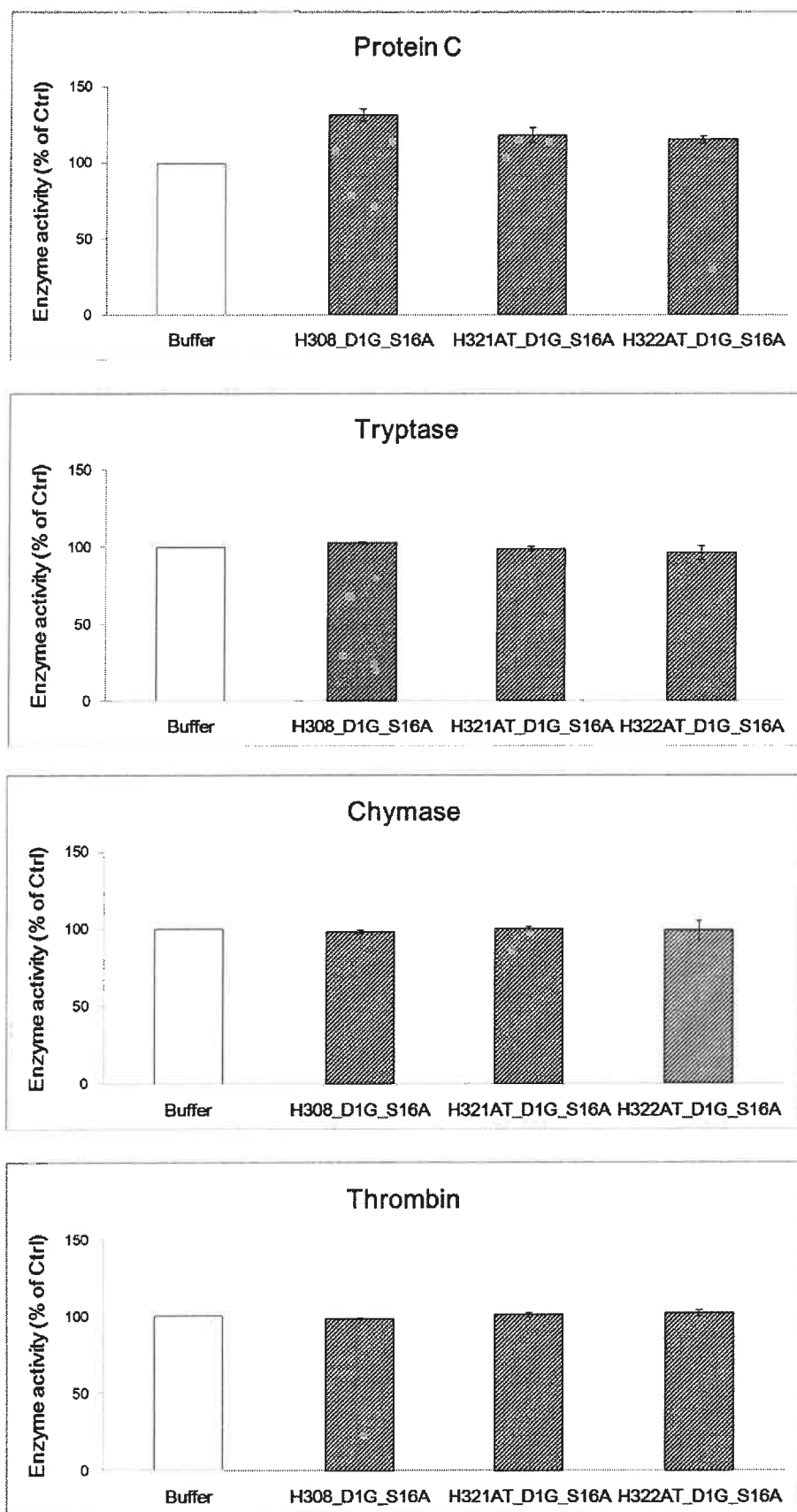


Figure 68 (B)

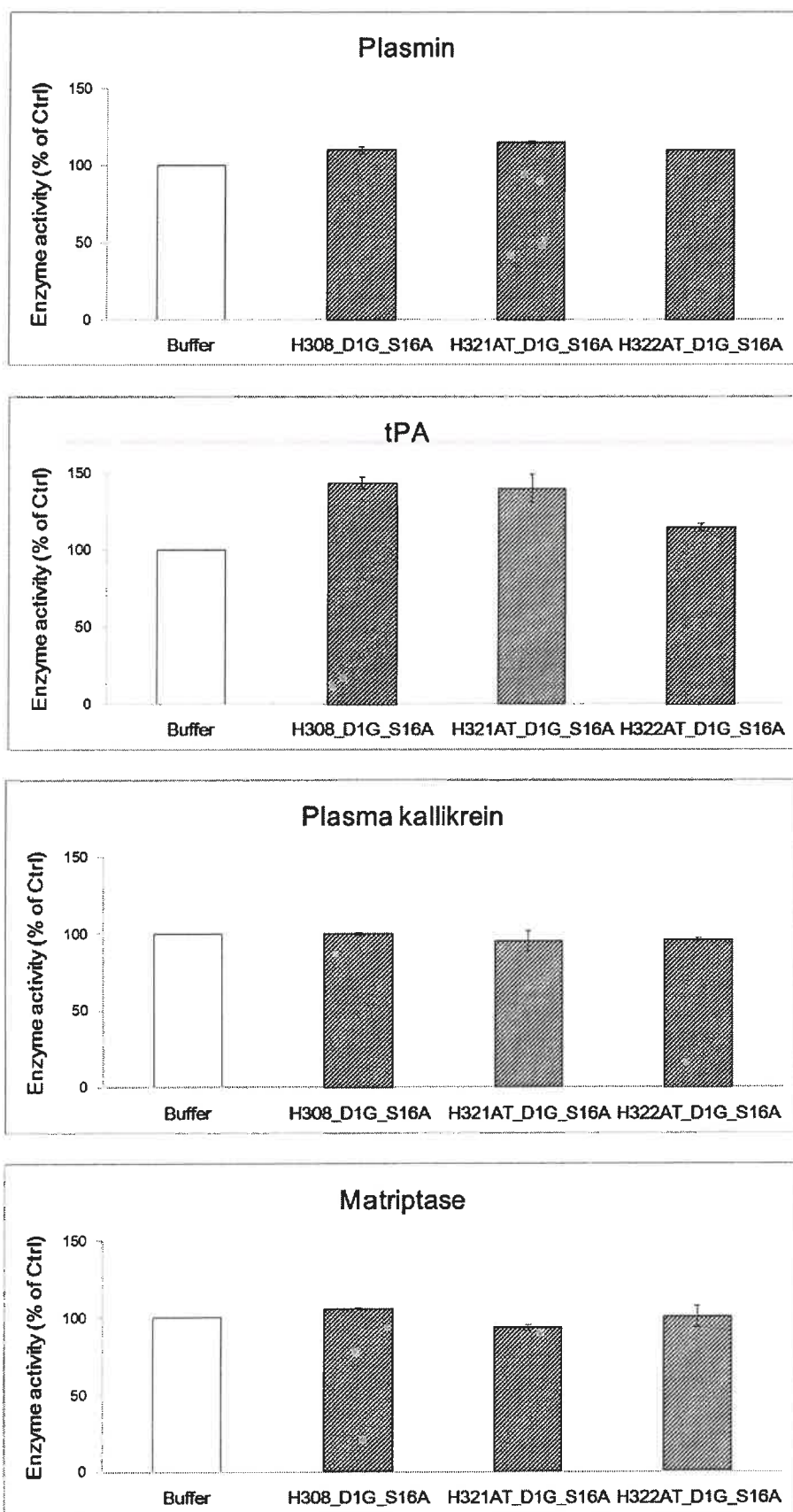


Figure 68 (C)

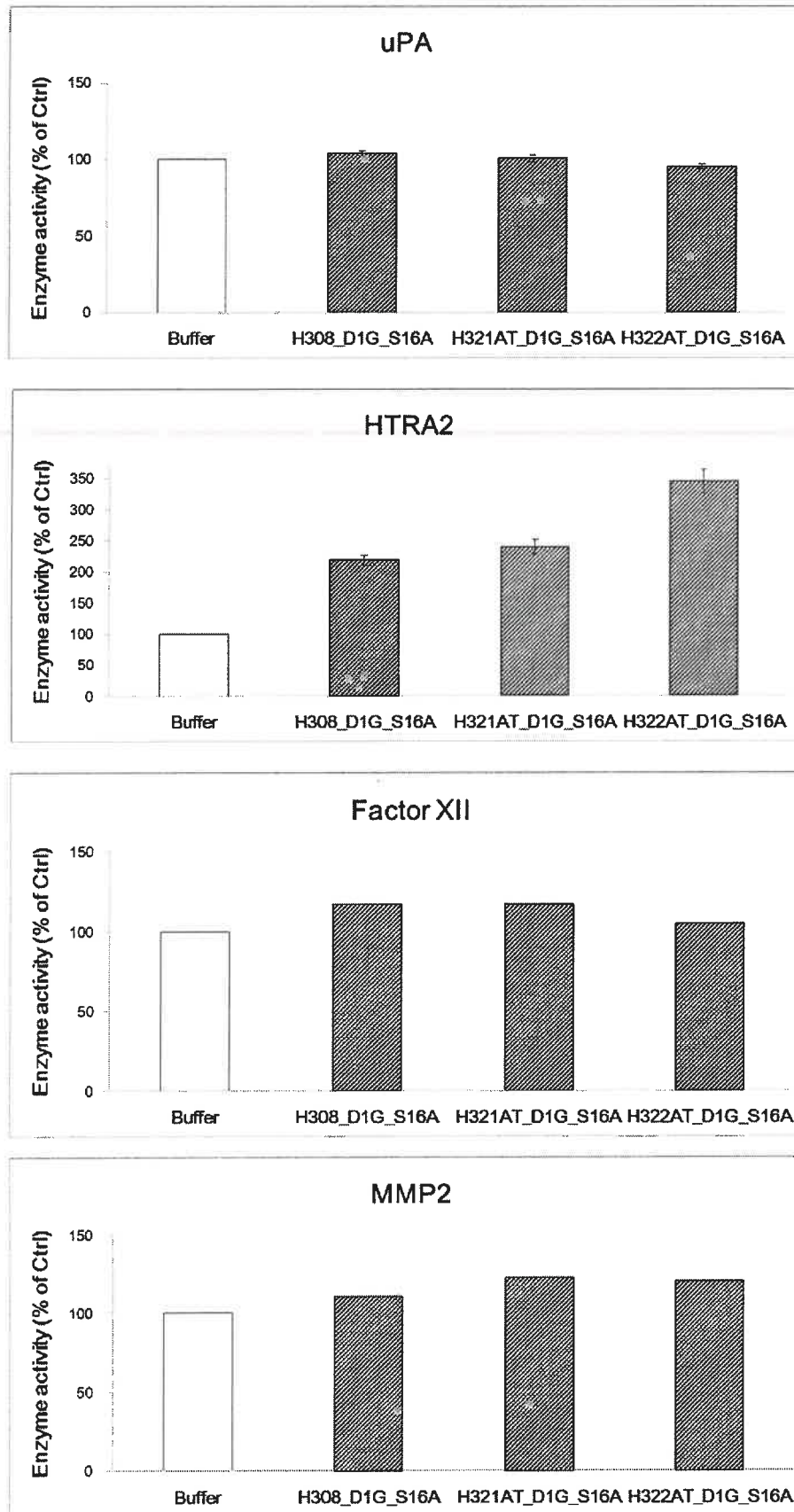


Figure 68 (D)

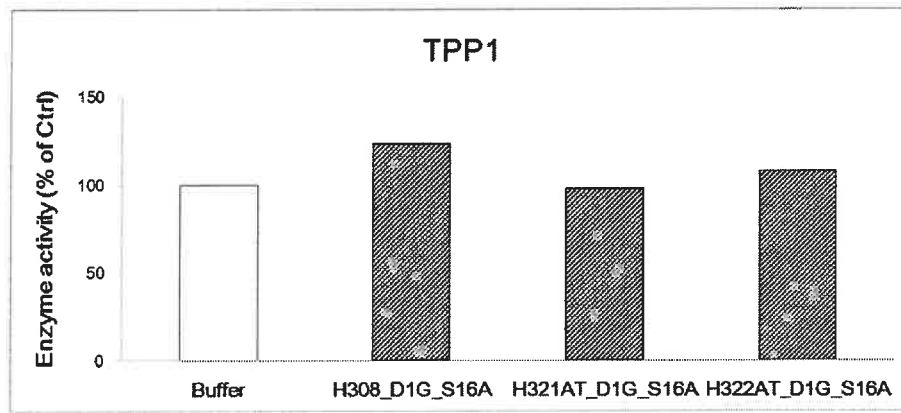


Figure 68 (E)

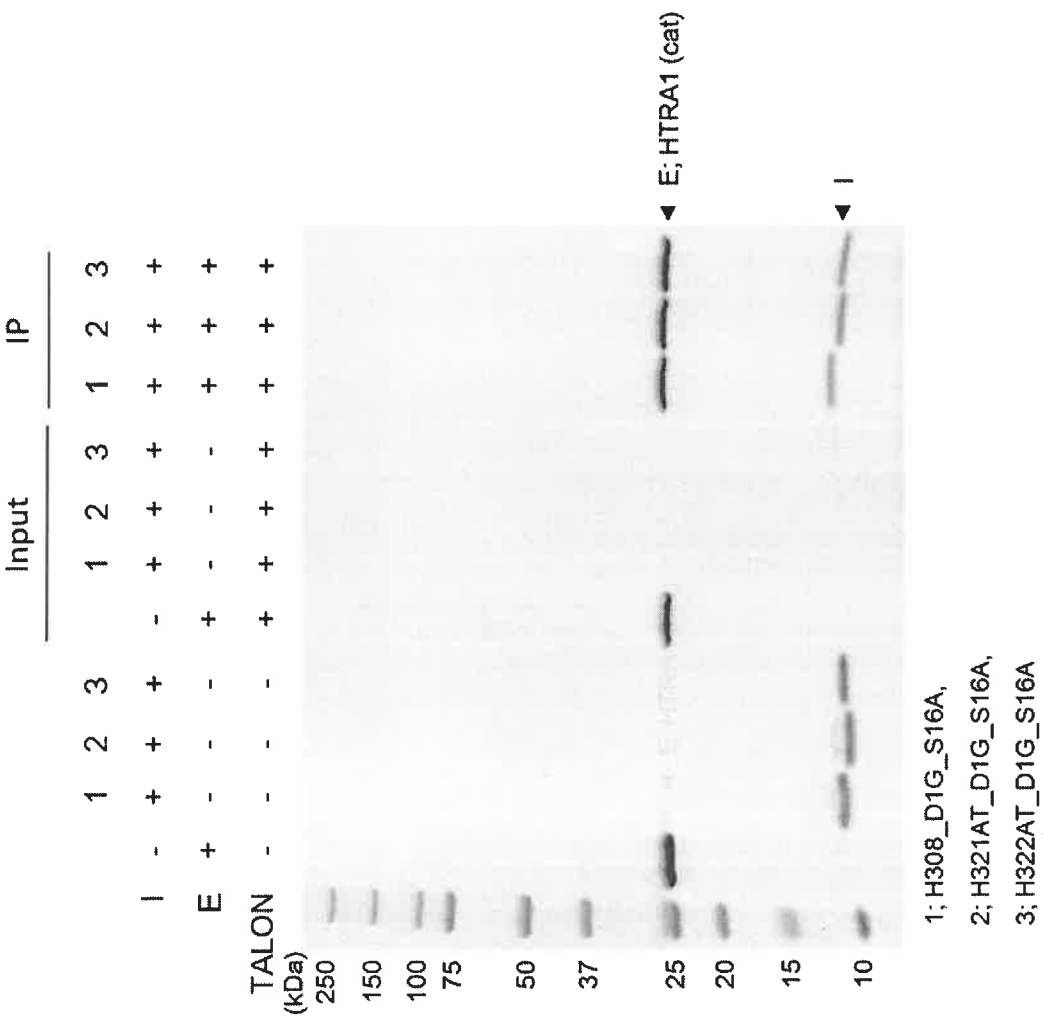


Figure 69

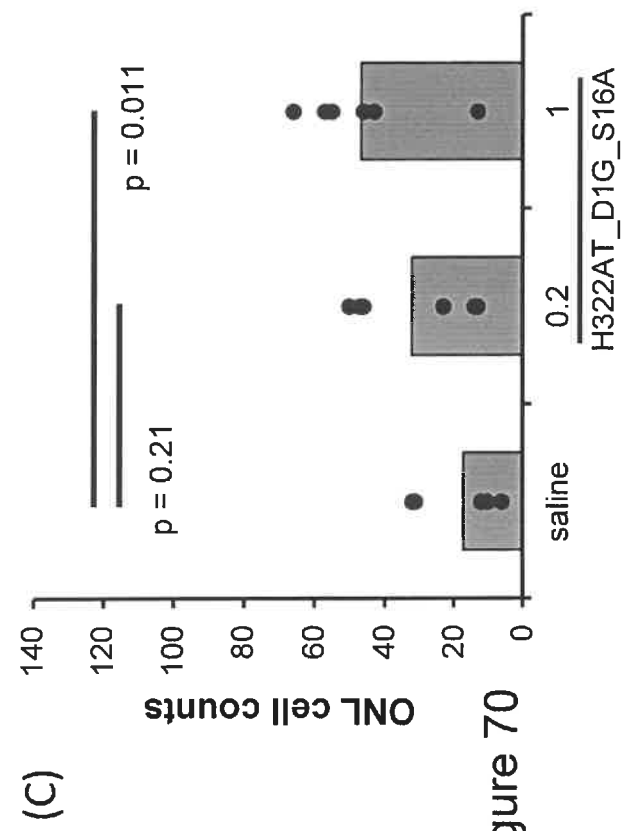
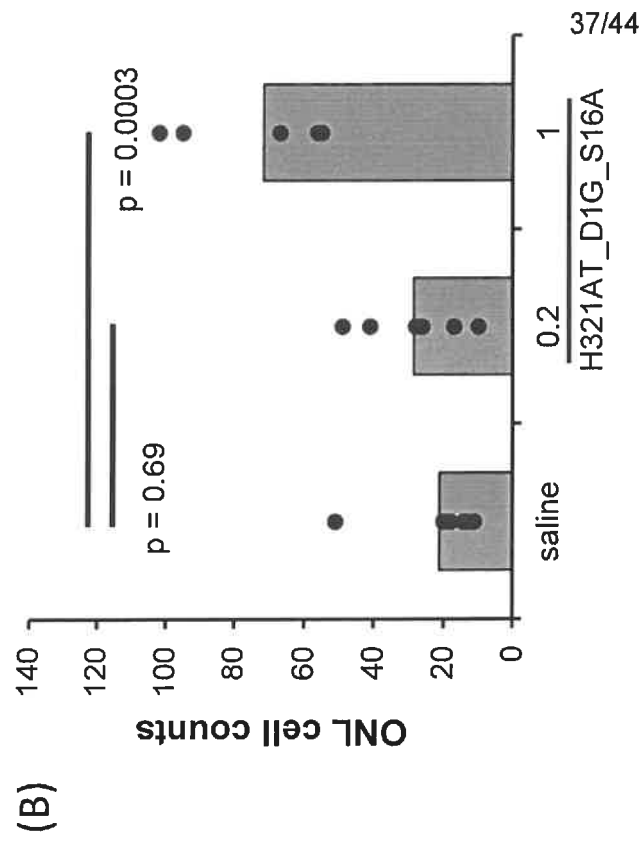
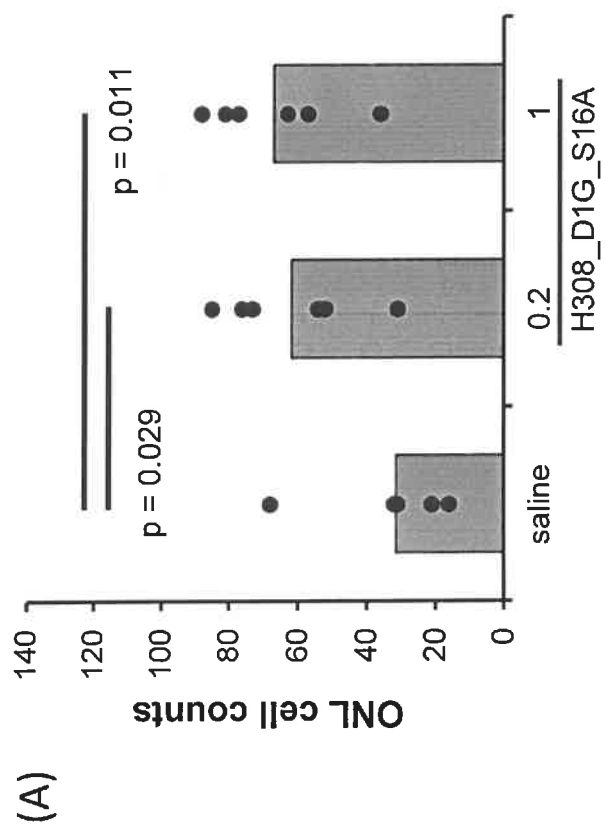


Figure 70

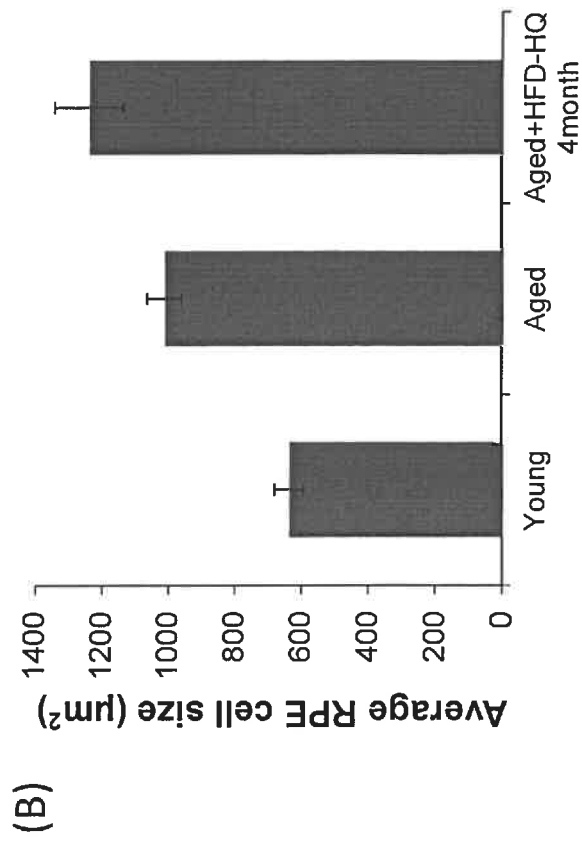
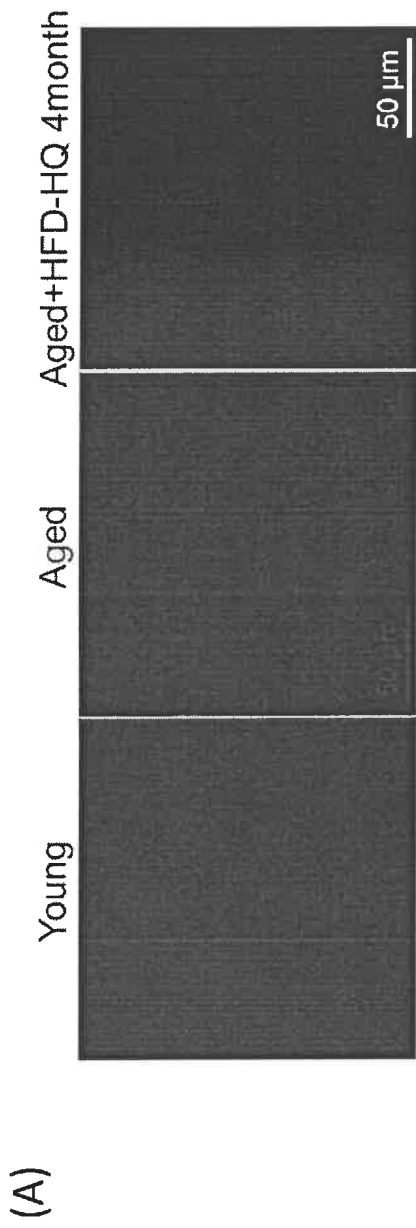
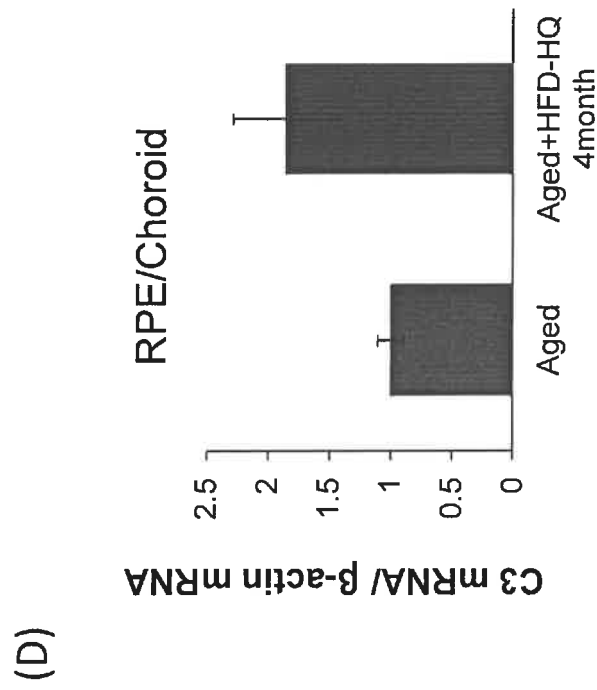
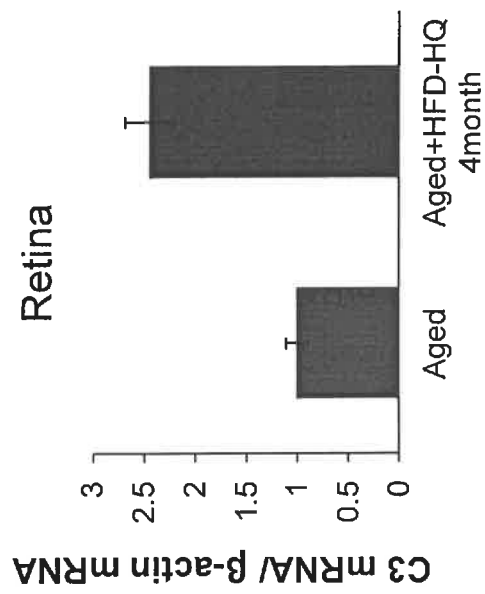


Figure 71

(C)



(E)

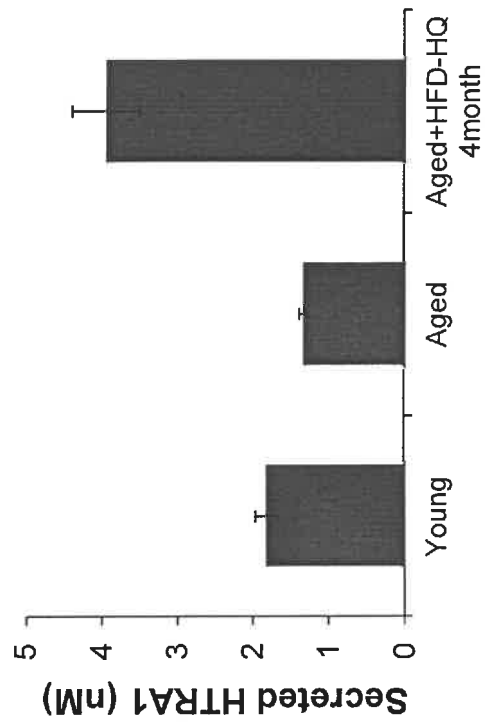
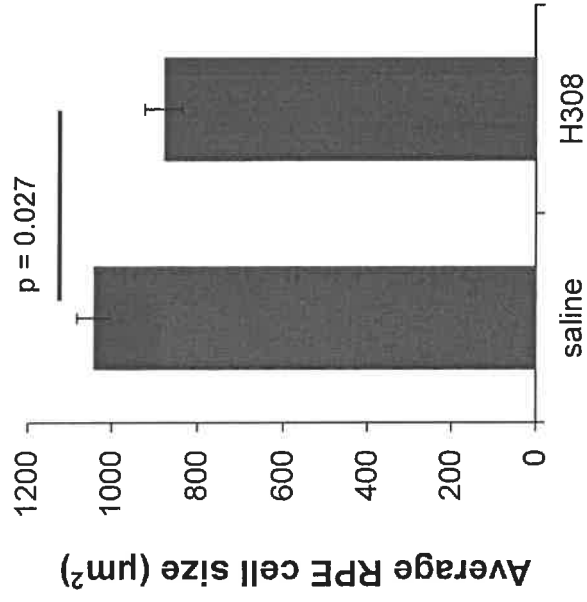
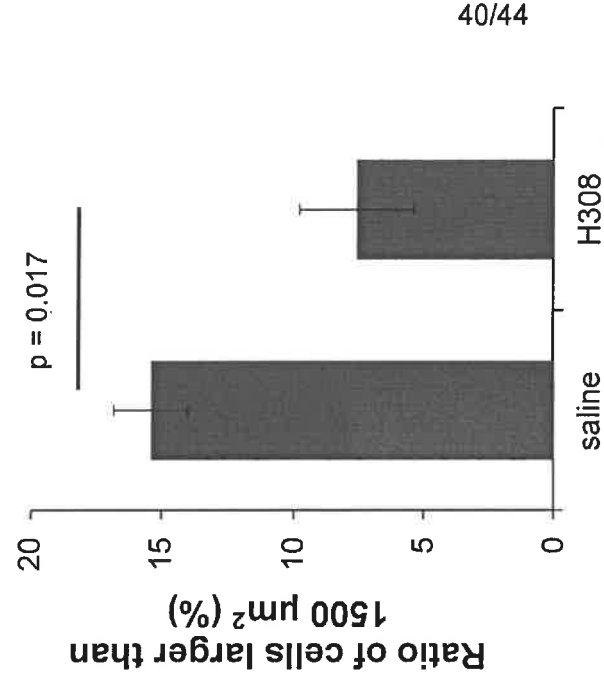


Figure 71

(A)



(B)



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Figure 72

human	1	1	GS	GF	IV	SE	DG	LI	VT	NA	HV	VT	NK	HR	VK	VE	LK	NG	AT	YE	AK	IK	DV	DE	KAD	IA	LK	ID	HQ	GK	LP	60																														
cyno.	1	1	GS	GF	IV	SE	DG	LI	VT	NA	HV	VT	NK	HR	VK	VE	LK	NG	AT	YE	AK	IK	DV	DE	KAD	IA	LK	ID	HQ	GK	LP	60																														
rabbit	1	1	GS	GF	IV	SE	DG	LI	VT	NA	HV	VT	NK	HR	VK	VE	LK	NG	AT	YE	AK	IK	DV	DE	KAD	IA	LK	ID	HQ	GK	LP	60																														
mouse	1	1	GS	GF	IV	SE	DG	LI	VT	NA	HV	VT	NK	HR	VK	VE	LK	NG	AT	YE	AK	IK	DV	DE	KAD	IA	LK	ID	HQ	GK	LP	60																														
rat	1	1	GS	GF	IV	SE	DG	LI	VT	NA	HV	VT	NK	HR	VK	VE	LK	NG	AT	YE	AK	IK	DV	DE	KAD	IA	LK	ID	HQ	GK	LP	60																														
human	61	1	V	L	L	G	R	S	S	E	L	R	P	G	E	F	V	V	A	I	G	S	P	F	S	L	Q	N	T	V	T	T	G	I	V	S	T	T	Q	R	G	G	K	E	L	G	L	R	N	S	D	M	D	Y	I	Q	T	D	A	I	I	120
cyno.	61	1	V	L	L	G	R	S	S	E	L	R	P	G	E	F	V	V	A	I	G	S	P	F	S	L	Q	N	T	V	T	T	G	I	V	S	T	T	Q	R	G	G	K	E	L	G	L	R	N	S	D	M	D	Y	I	Q	T	D	A	I	I	120
rabbit	61	1	V	L	L	G	R	S	S	E	L	R	P	G	E	F	V	V	A	I	G	S	P	F	S	L	Q	N	T	V	T	T	G	I	V	S	T	T	Q	R	G	G	K	E	L	G	L	R	N	S	D	M	D	Y	I	Q	T	D	A	I	I	120
mouse	61	1	V	L	L	G	R	S	S	E	L	R	P	G	E	F	V	V	A	I	G	S	P	F	S	L	Q	N	T	V	T	T	G	I	V	S	T	T	Q	R	G	G	K	E	L	G	L	R	N	S	D	M	D	Y	I	Q	T	D	A	I	I	120
rat	61	1	V	L	L	G	R	S	S	E	L	R	P	G	E	F	V	V	A	I	G	S	P	F	S	L	Q	N	T	V	T	T	G	I	V	S	T	T	Q	R	G	G	K	E	L	G	L	R	N	S	D	M	D	Y	I	Q	T	D	A	I	I	120
human	121	1	N	Y	G	N	S	G	G	P	L	V	N	L	D	G	E	V	I	G	I	N	T	L	K	V	T	A	G	I	S	F	A	I	P	S	D	K	I	K	K	F	L	161																		
cyno.	121	1	N	Y	G	N	S	G	G	P	L	V	N	L	D	G	E	V	I	G	I	N	T	L	K	V	T	A	G	I	S	F	A	I	P	S	D	K	I	K	K	F	L	161																		
rabbit	121	1	N	Y	G	N	S	G	G	P	L	V	N	L	D	G	E	V	I	G	I	N	T	L	K	V	T	A	G	I	S	F	A	I	P	S	D	K	I	K	K	F	L	161																		
mouse	121	1	N	Y	G	N	S	G	G	P	L	V	N	L	D	G	E	V	I	G	I	N	T	L	K	V	T	A	G	I	S	F	A	I	P	S	D	K	I	K	K	F	L	161																		
rat	121	1	N	Y	G	N	S	G	G	P	L	V	N	L	D	G	E	V	I	G	I	N	T	L	K	V	T	A	G	I	S	F	A	I	P	S	D	K	I	K	K	F	L	161																		

Figure 73

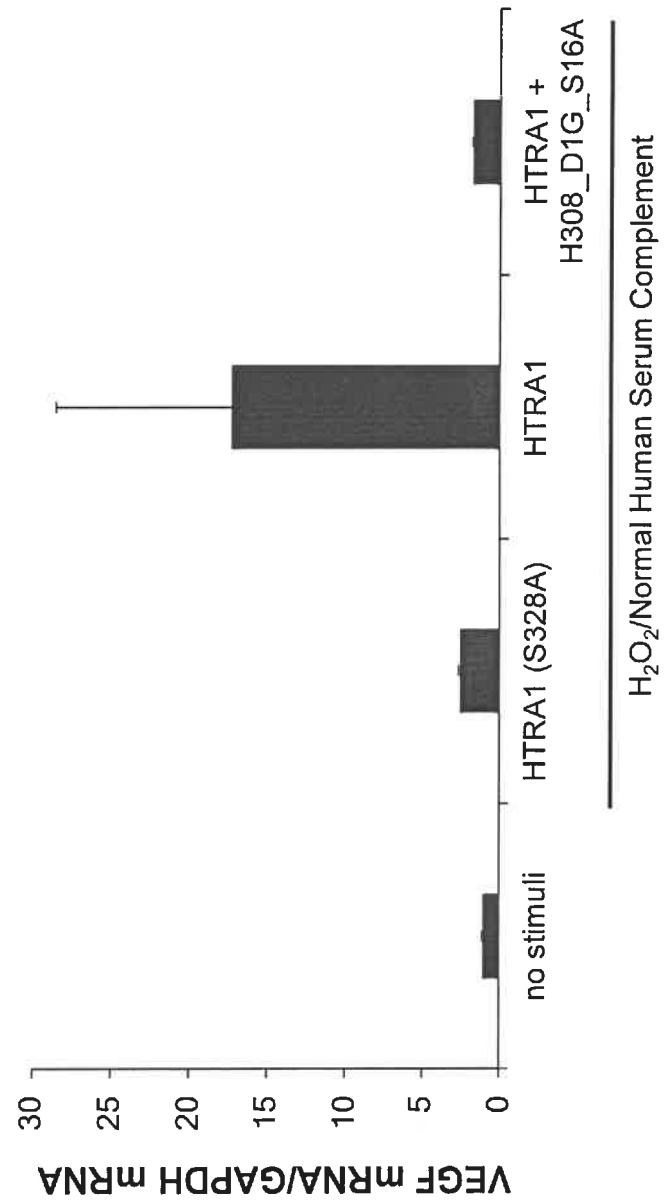


Figure 74

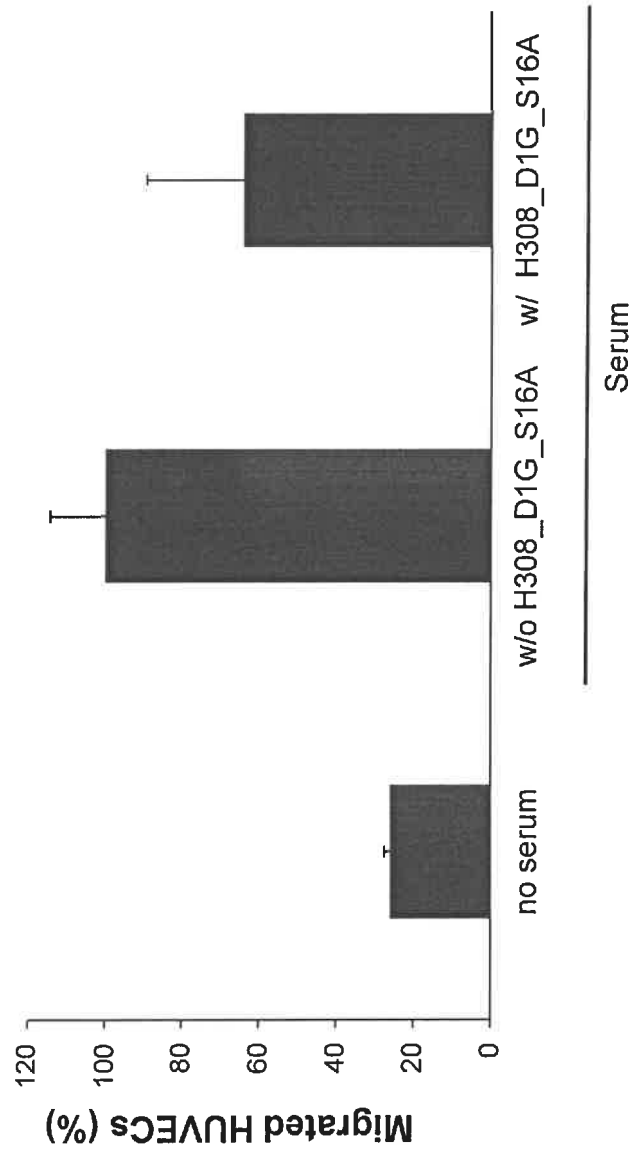


Figure 75

[F i g u r e 7 6]

P r i m e r 2 1

CCATCATCAACTACGGCAACGCGGGCGGACCCCTC
GTGAACC (SEQ ID NO: 55)

[F i g u r e 7 7]

P r i m e r 2 2

GGTTCACGAGGGGTCCGCCCCGCGTTGCCGTAGTTG
ATGATGG (SEQ ID NO: 56)