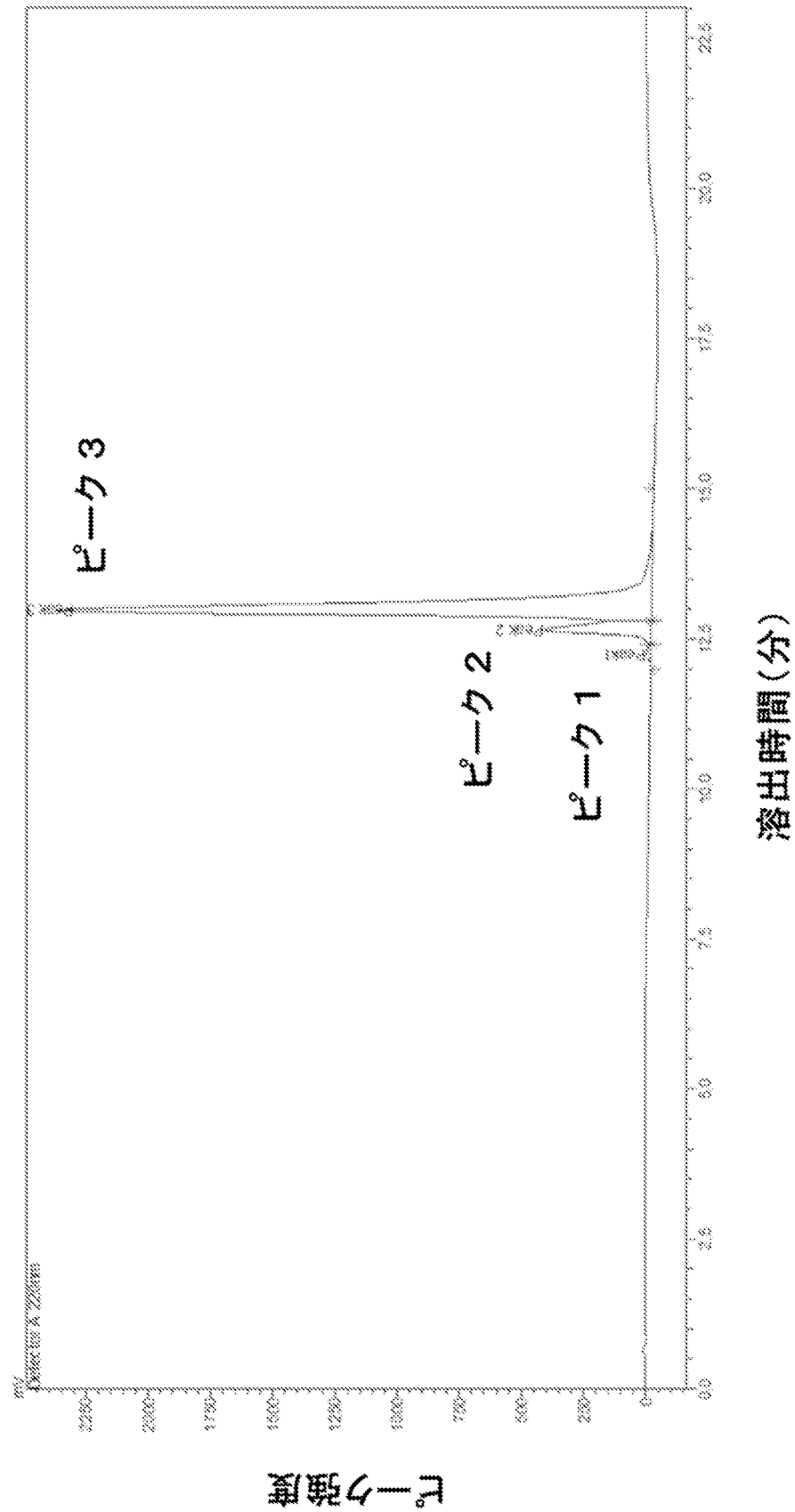
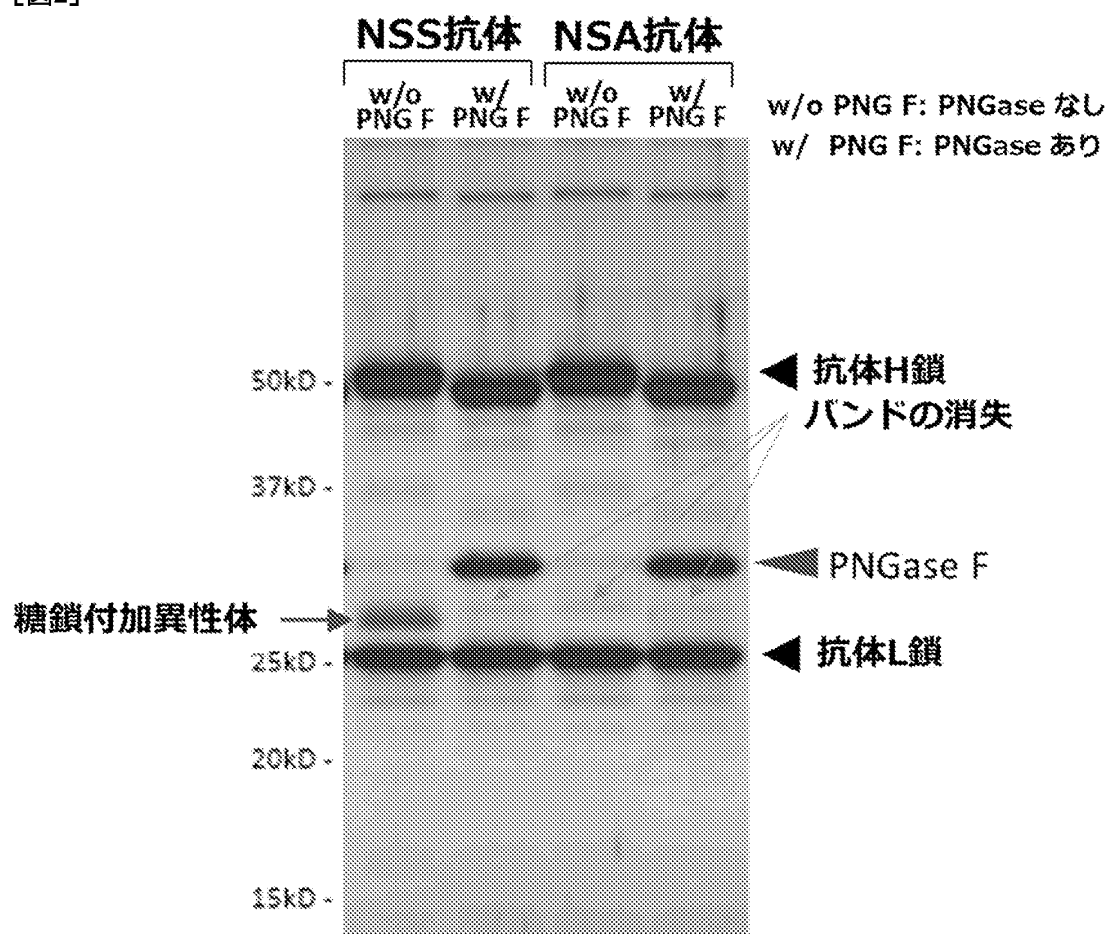


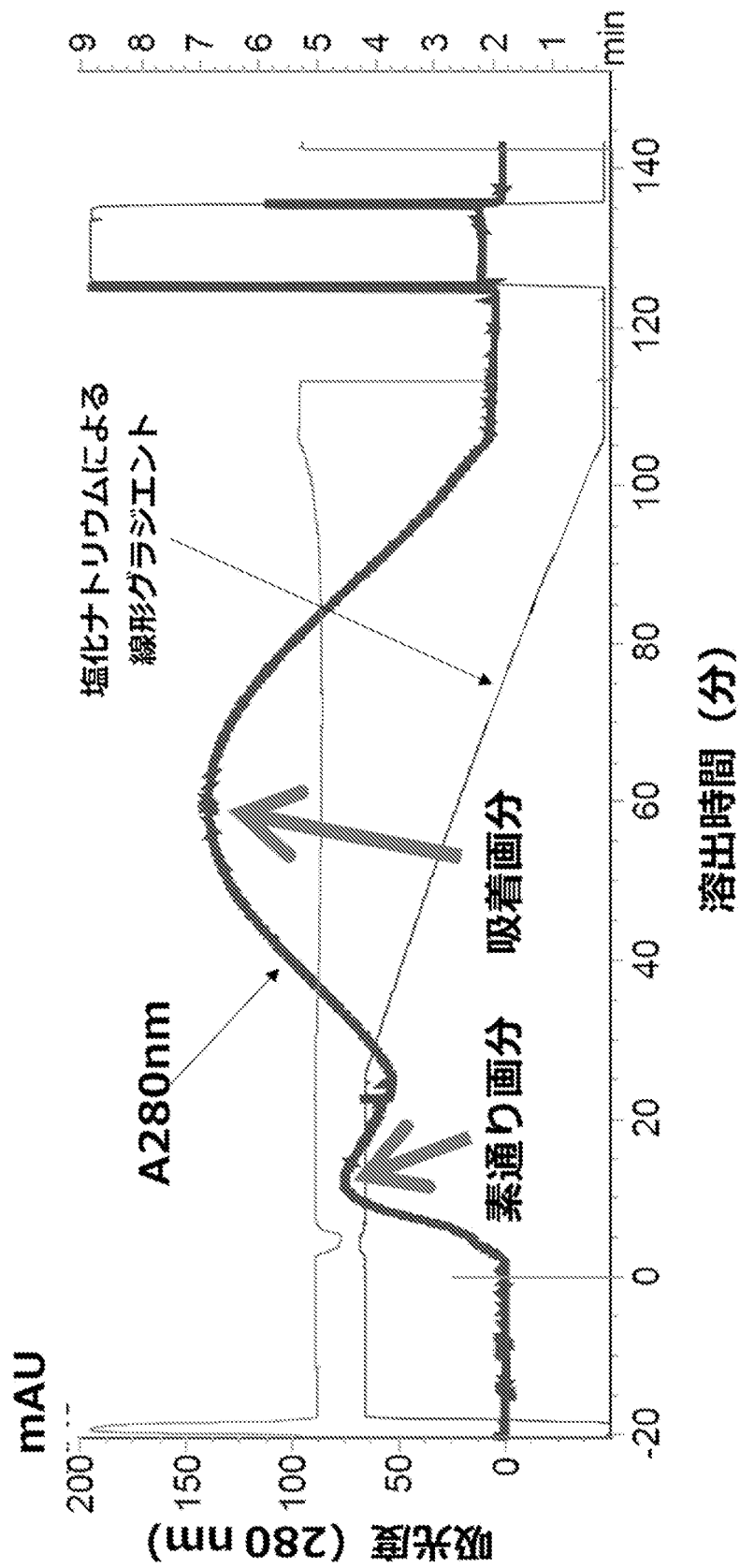
[図1]



[図2]

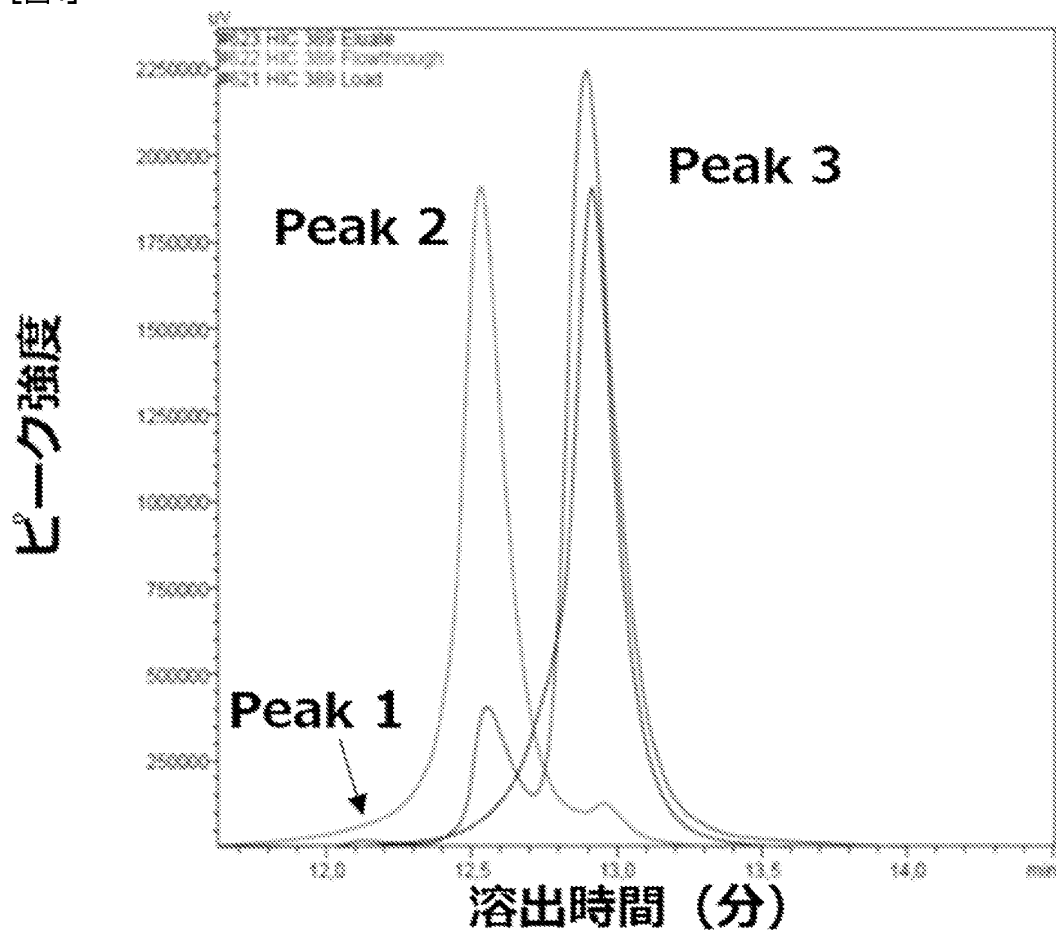


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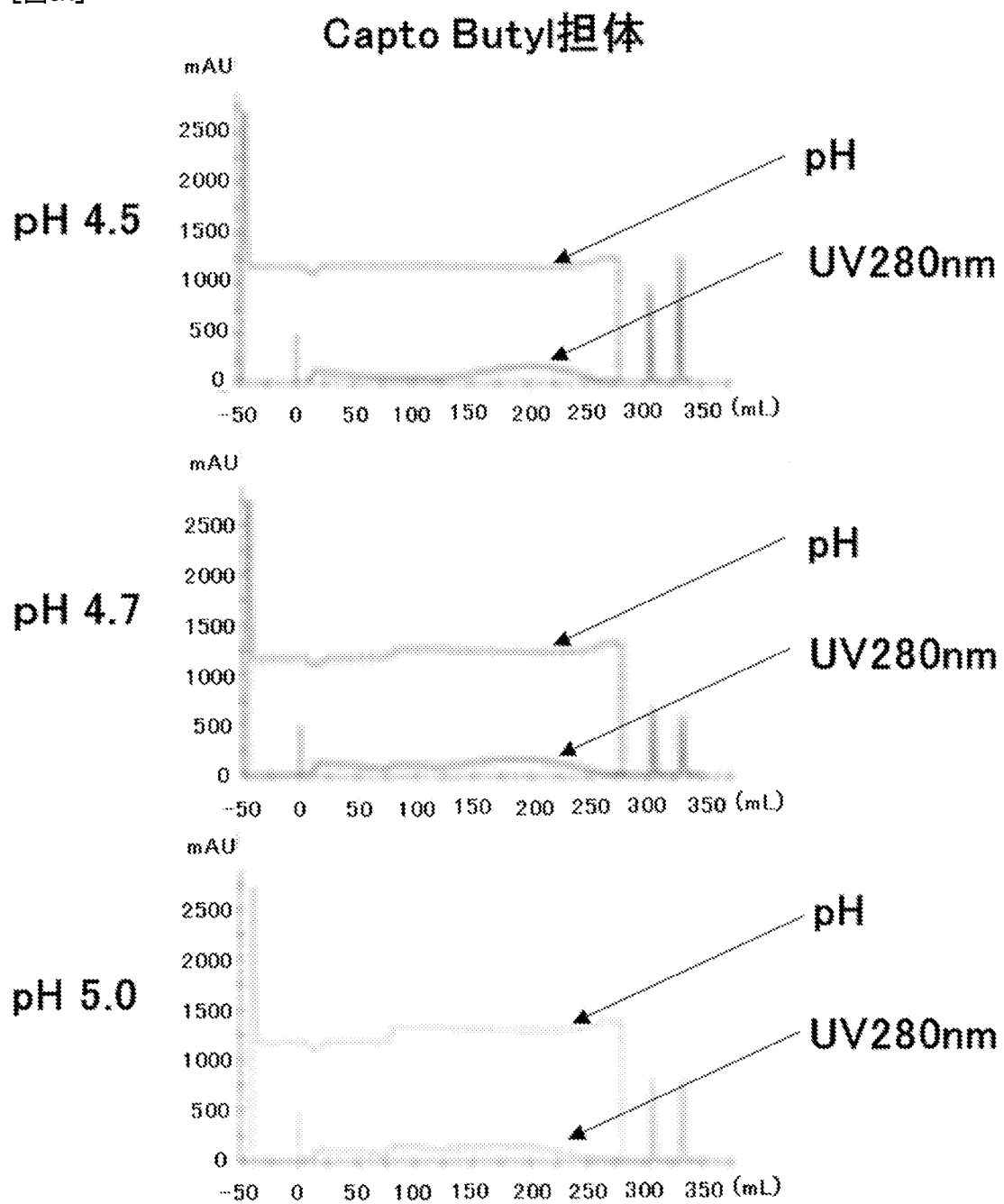
HIC389

[図4]

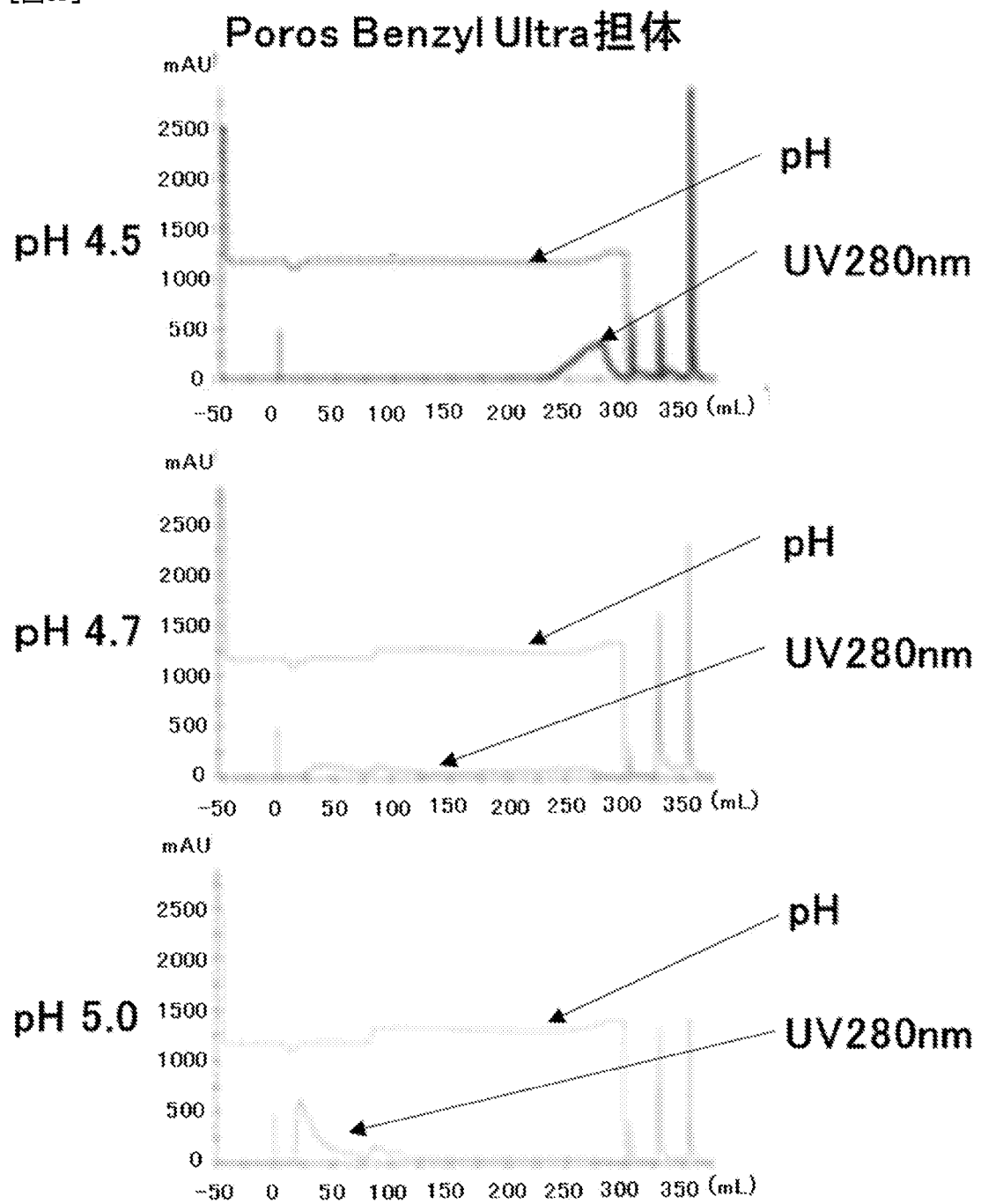


検体	Peak 1 (%)	Peak 2 (%)	Peak 3 (%)
負荷試料	2. 1	12. 1	85. 8
素通り画分	0	94. 2	5. 8
溶出画分	0	0	100

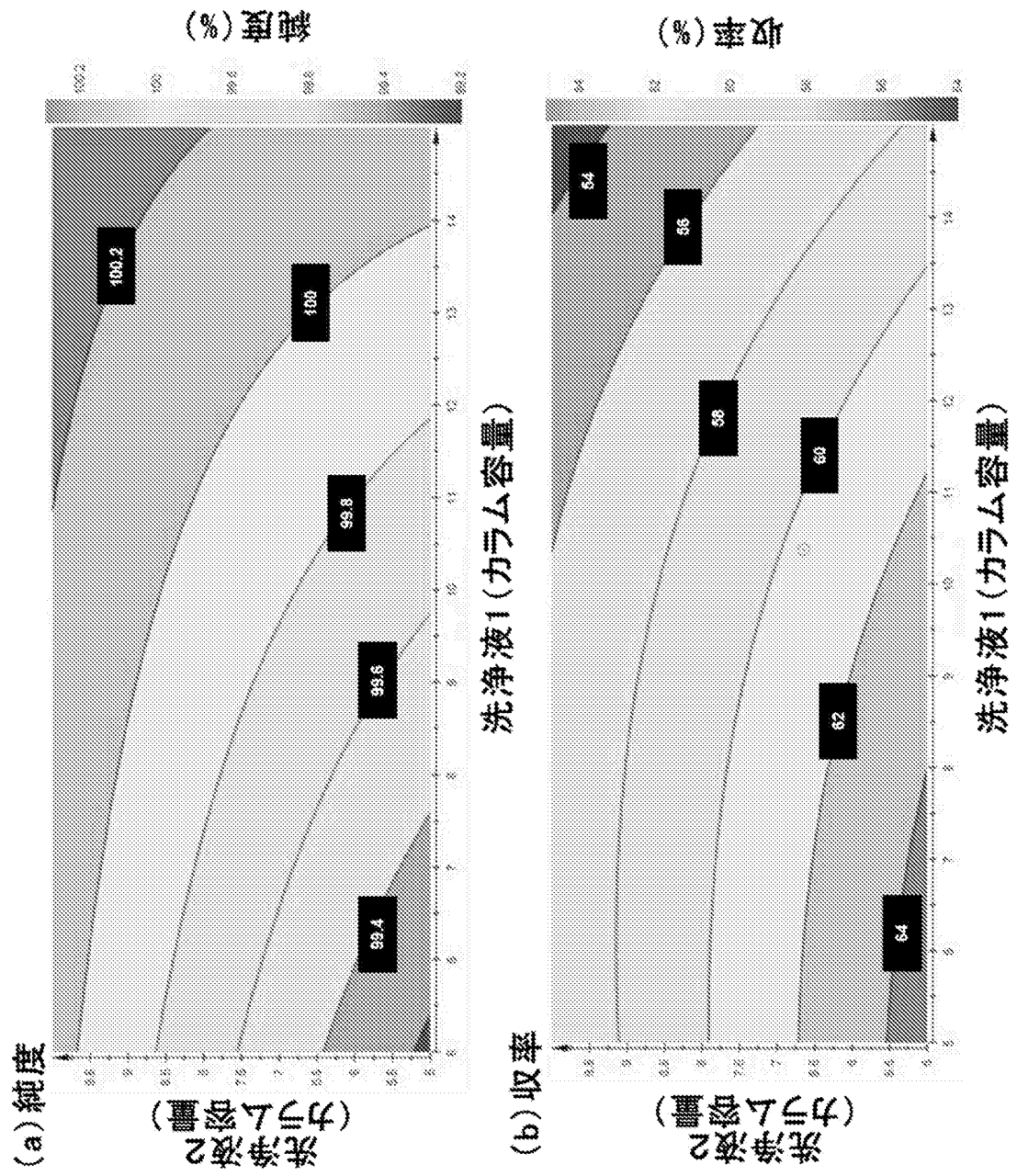
[図5A]



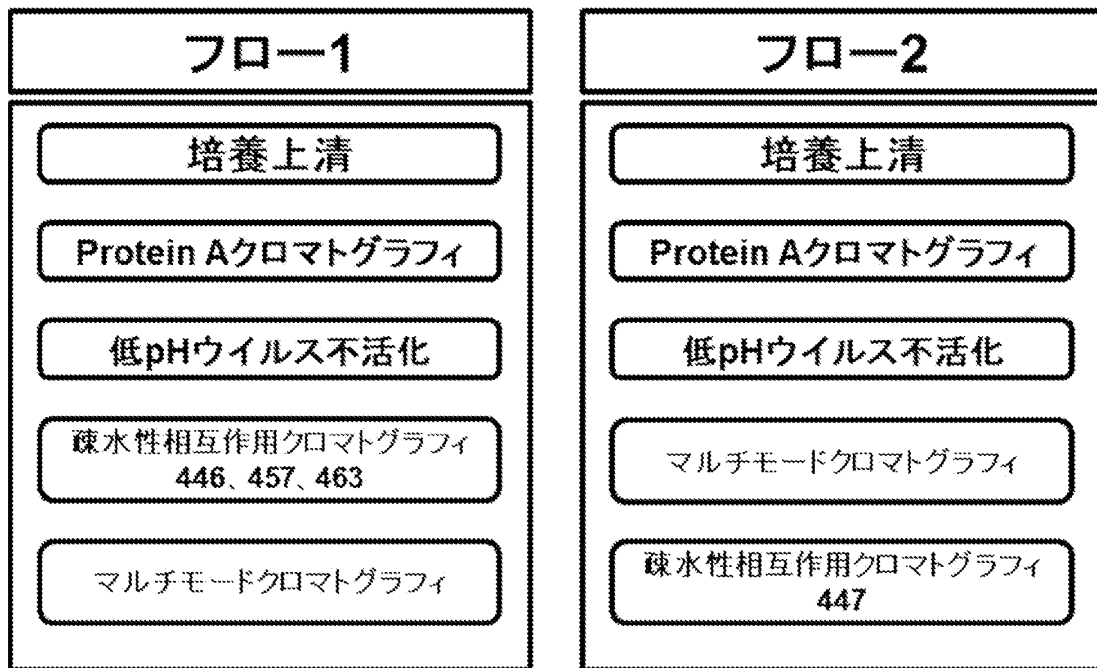
[図5B]



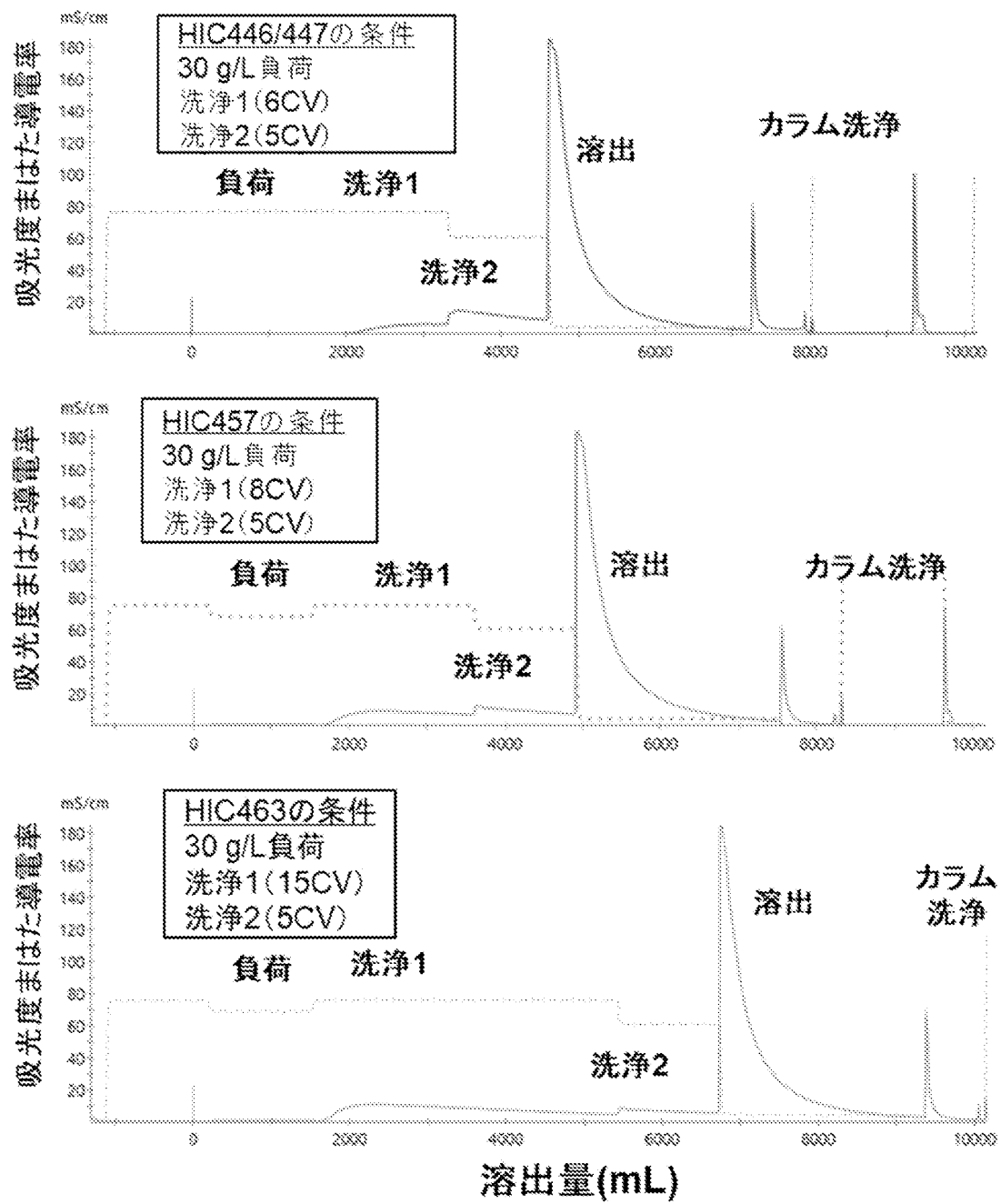
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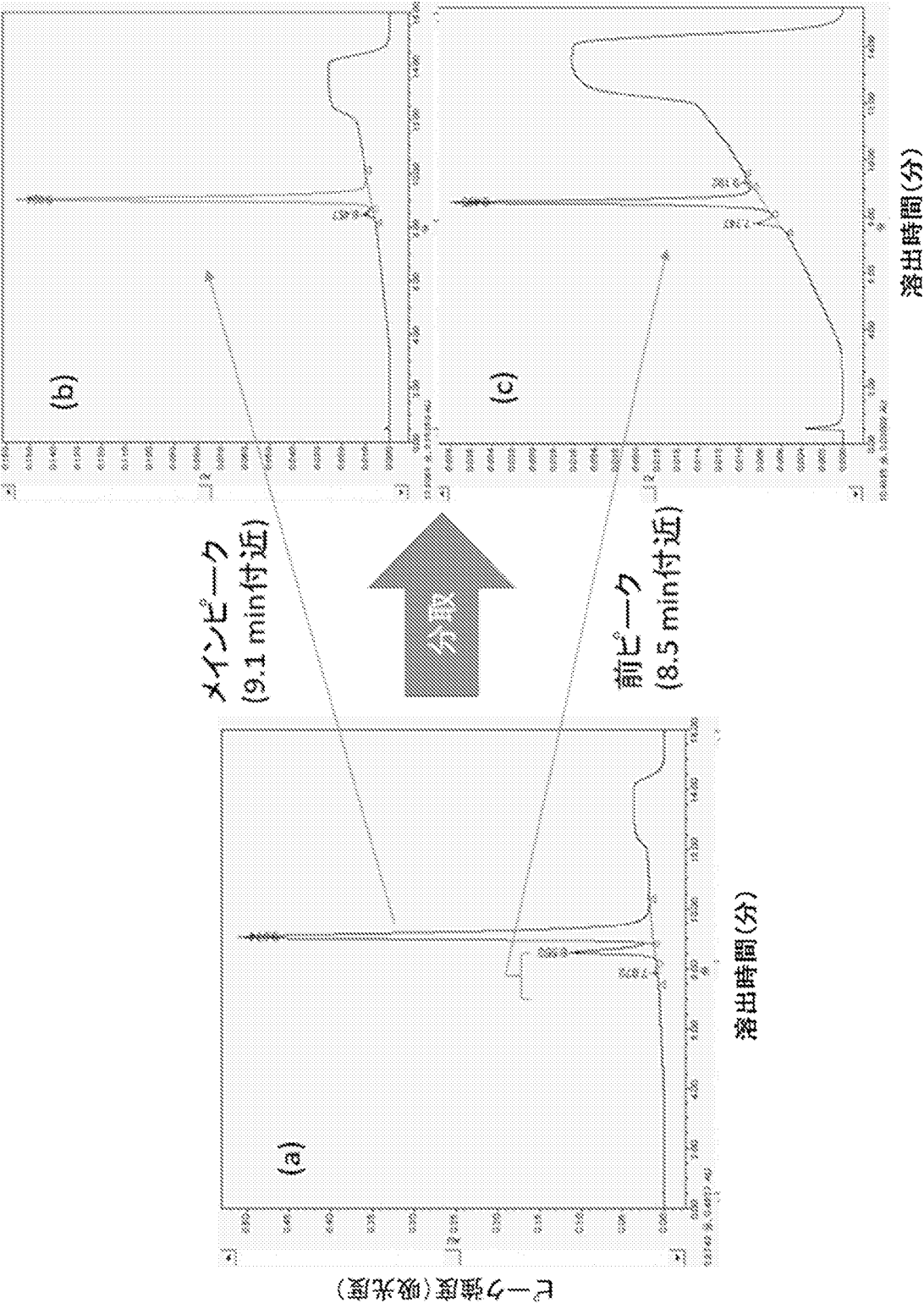
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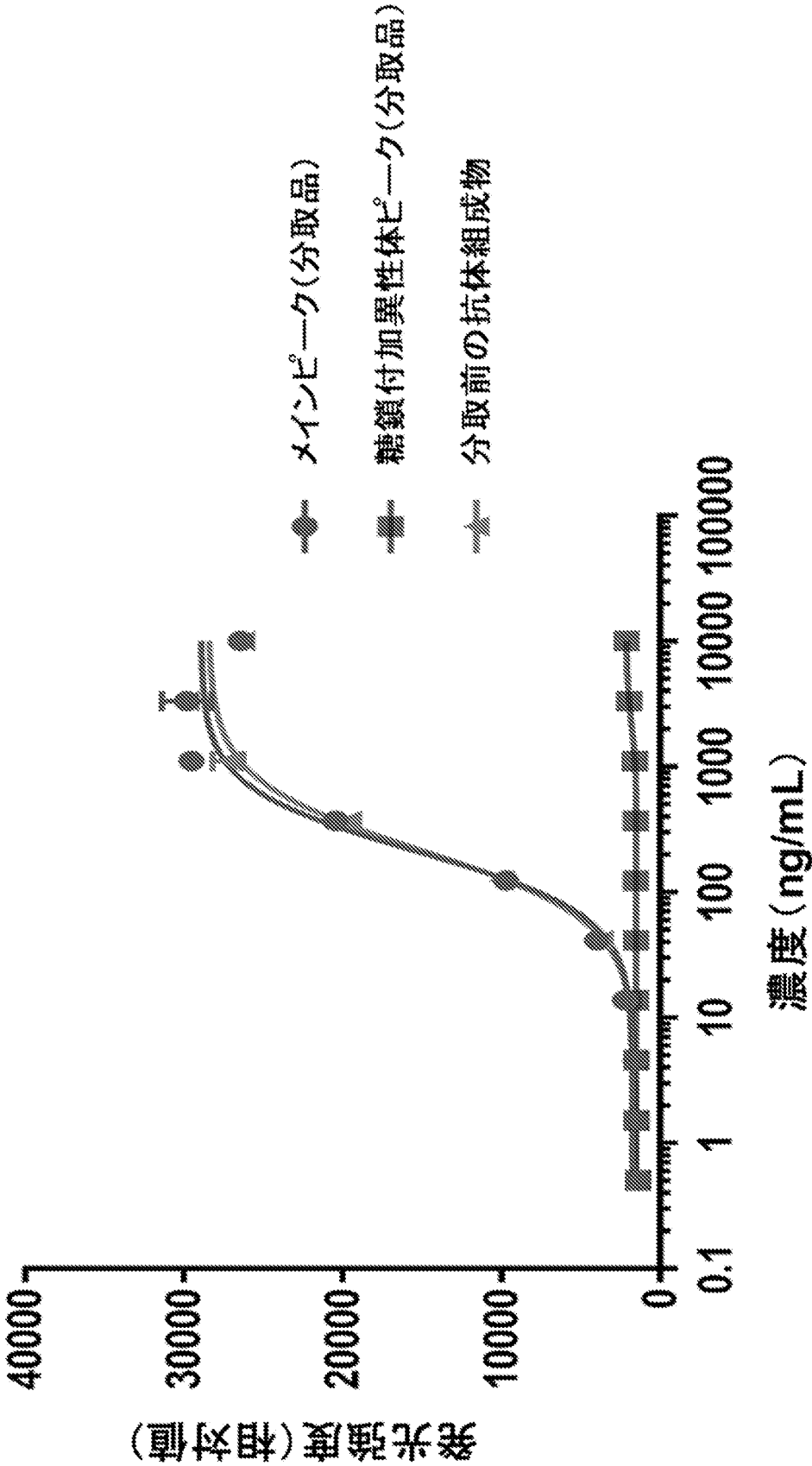
[図8]



【図9】



[図10]



[図11]

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1  ATGGGTTGGAGCTGTATCATCTTCTTTCTGGTAGCAACAGCTACAGGCGTGAAGTCTCCAA
   M G W S C I I F F L V A T A T G V H S Q
61  GTCCAGCTGGTGCAGTCTGGGGCTGAAGTGAAGAAGCCTGGGGCCTCAGTGAAAGTCTCC
   V Q L V Q S G A E V K K P G A S V K V S
121 TGCAAGGCTTCCGGCTACACATTCACTGATTATGCTATGCACTGGGTGCGACAGGCCCT
   C K A S G Y T F T D Y A M H W V R Q A P
181 GGACAAGGCTGGAGTGGATTGGAGTTATTAGTACTTACTATGGTAATACAACTACAAC
   G Q G L E W I G V I S T Y Y G N T N Y N
241 CAGAAGTTTAAGGGCAAGGCCACAATGACTGTCGACACATCCACCAGCACGCCTATATG
   Q K F K G K A T M T V D T S T S T A Y M
301 GAACTTAGGAGCTTGAGATCTGACGATACTGCCGTGTATTACTGTGCAAGAGGAGGATTG
   E L R S L R S D D T A V Y Y C A R G G L
361 CGAGAGTATTACTATGCTATGGACTACTGGGGTCAAGGAACCATGGTCACCGTCTCCTCA
   R E Y Y Y A M D Y W G Q G T M V T V S S
421 GCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGG
   A S T K G P S V F P L A P S S K S T S G
481 GGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCG
   G T A A L G C L V K D Y F P E P V T V S
541 TGGAACTCAGGCGCCCTGACCAGCGCGTGCACACCTTCCCGGCTGTCTACAGTCTCTCA
   W N S G A L T S G V H T F P A V L Q S S
601 GGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACC
   G L Y S L S S V V T V P S S S L G T Q T
661 TACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
   Y I C N V N H K P S N T K V D K K V E P
721 AAATCTTGTGACAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCTGGGGGGA
   K S C D K T H T C P P C P A P E L L G G
781 CCGTCAGTCTTCTTCTTCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCT
   P S V F L F P P K P K D T L M I S R T P
841 GAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTCAACTGG
   E V T C V V V D V S H E D P E V K F N W
901 TACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAAC
   Y V D G V E V H N A K T K P R E E Q Y N
961 AGCACGTACCGTGTGGTGCAGCGTCTCACCCTGCTGCACCAGGACTGGCTGAATGGCAAG
   S T Y R V V S V L T V L H Q D W L N G K
1021 GAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCC
   E Y K C K V S N K A L P A P I E K T I S
1081 AAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAG
   K A K G Q P R E P Q V Y T L P P S R D E
1141 CTGACCAAGAACCAGGTGACGCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATC
   L T K N Q V S L T C L V K G F Y P S D I
1201 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGAGACAACACTACAAGACCACGCCTCCCGTG
   A V E W E S N G Q P E N N Y K T T P P V
1261 CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGG
   L D S D G S F F L Y S K L T V D K S R W
1321 CAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACAG
   Q Q G N V F S C S V M H E A L H N H Y T
1381 CAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA
   Q K S L S L S P G K .

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[図12]

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1  ATGGGTTGGAGCTGTATCATCTTCTTTCTGGTAGCAACAGCTACAGGCGTGCACCTCCCAA
   M G W S C I I F F L V A T A T G V H S Q
61  GTCCAGCTGCTGCAGTCTGGGGCTGAAGTGAAGAAGCCTGGGGCCTCAGTGAAAGTCTCC
   V Q L V Q S G A E V K K P G A S V K V S
121 TGCAAGGCTTCCGGCTACACATTCACTGATTATGCTATGCACTGGGTGCGACAGGCCCCCT
   C K A S G Y T F T D Y A M H W V R Q A P
181 GGACAAGGCCTGGAGTGGATTGGAGTTATTAGTACTTACTATGGTAATACAACTACAAC
   G Q G L E W I G V I S T Y Y G N T N Y N
241 CAGAAGTTTAAGGGCCGAGCCACAATGACTGTGACACATCCACCAGCACAGCCTATATG
   Q K F K G R A T M T V D T S T S T A Y M
301 GAACTTAGGAGCTTGAGATCTGACGATACTGCCGTGTATTACTGTGCAAGAGGAGGATTG
   E L R S L R S D D T A V Y Y C A R G G L
361 CGAGAGTATTACTATGCTATGGACTACTGGGGTCAAGGAACCATGGTCACCGTCTCCTCA
   R E Y Y Y A M D Y W G Q G T M V T V S S
421 GCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGG
   A S T K G P S V F P L A P S S K S T S G
481 GGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCG
   G T A A L G C L V K D Y F P E P V T V S
541 TGGAACTCAGGCGCCCTGACCAGCGCGGTGCACACCTTCCCGGCTGTCTACAGTCTCTCA
   W N S G A L T S G V H T F P A V L Q S S
601 GGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACC
   G L Y S L S S V V T V P S S S L G T Q T
661 TACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
   Y I C N V N H K P S N T K V D K K V E P
721 AAATCTTGTGACAAACTCACACATGCCACCGTGCCAGCACCTGAACTCCTGGGGGGA
   K S C D K T H T C P P C P A P E L L G G
781 CCGTCAGTCTTCTCTTCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCT
   P S V F L F P P K P K D T L M I S R T P
841 GAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGG
   E V T C V V V D V S H E D P E V K F N W
901 TACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAAC
   Y V D G V E V H N A K T K P R E E Q Y N
961 AGCACGTACCCTGTGGTCAGCGTCCCTACCGTCCCTGCACCAGGACTGGCTGAATGGCAAG
   S T Y R V V S V L T V L H Q D W L N G K
1021 GAGTACAAGTGCAAGGTCTCCAACAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCC
   E Y K C K V S N K A L P A P I E K T I S
1081 AAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAG
   K A K G Q P R E P Q V Y T L P P S R D E
1141 CTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATC
   L T K N Q V S L T C L V K G F Y P S D I
1201 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACRACTACAAGACCACGCCTCCCGTG
   A V E W E S N G Q P E N N Y K T T P P V
1261 CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGG
   L D S D G S F F L Y S K L T V D K S R W
1321 CAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
   Q Q G N V F S C S V M H E A L H N H Y T
1381 CAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA
   Q K S L S L S P G K .

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[図13]

1 ATGGAATCACAGACCCAGGTCCTCATGTTTCTTCTGCTCTGGGTATCTGGTGCCTGTGCA
M E S Q T Q V L M F L L L W V S G A C A
61 GACATTGTTCATGACACAGTCTCCAGACTCCCTGGCTGTGTCACTGGGAGAGAGGGCCACT
D I V M T Q S P D S L A V S L G E R A T
121 ATCAACTGCAAGTCCAGTCAGAGCCTTCTGAATAGTAGCAATCAAAGAAGTATTTGGCC
I N C K S S Q S L L N S S N Q K N Y L A
181 TGGTACCAGCAGAAACCAGGACAGCCTCCTAAACTTCTGGTCTACTTTGCATCCACTAGG
W Y Q Q K P G Q P P K L L V Y F A S T R
241 GAATCTGGGGTCCCTGATCGCTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTTACC
E S G V P D R F S G S G S G T D F T L T
301 ATCAGCAGTCTGCAGGCTGAAGATGTGGCAGTTTACTACTGTCAGCAACATTATAGCACT
I S S L Q A E D V A V Y Y C Q Q H Y S T
361 CCTCCACATTCGGTCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCT
P P T F G Q G T K L E I K R T V A A P S
421 GTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGC
V F I F P P S D E Q L K S G T A S V V C
481 CTGCTGAATAACTTCTATCCCAGAGAGGGCCAAAGTACAGTGGGAAGGTGGATAACGCCCTC
L L N N F Y P R E A K V Q W K V D N A L
541 CAATCGGGTAACCTCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCTACAGC
Q S G N S Q E S V T E Q D S K D S T Y S
601 CTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGC
L S S T L T L S K A D Y E K H K V Y A C
661 GAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT
E V T H Q G L S S P V T K S F N R G E C
721 TAG

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[図14]

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1  ATGGGTTGGAGCTGTATCATCTTCTTTCTGGTAGCAACAGCTACAGGCGTGCACTCCCAA
   M G W S C I I F F L V A T A T G V H S Q
61  GTCCAGCTGGTGCAGTCTGGGGCTGAAGTGAAGAAGCCTGGGGCCTCAGTGAAAGTCTCC
   V Q L V Q S G A E V K K P G A S V K V S
121 TGCAAGGCTTCCGGCTACACATTCACTGATTATGCTATGCACTGGGTGCGACAGGCCCCCT
   C K A S G Y T F T D Y A M H W V R Q A P
181 GGACAAGGCTGGAGTGGATTGAGTTATTAGTACTTACTATGGTAATACAACTACAAC
   G Q G L E W I G V I S T Y Y G N T N Y N
241 CAGAAGTTTAAGGCAAGGCCACAATGACTGTCGACAAATCCACCAGCACAGCCTATATG
   Q K F K G K A T M T V D K S T S T A Y M
301 GAACTTAGGAGCTTGAGATCTGACGATACTGCCGTGTATTACTGTGCAAGAGGAGGATTG
   E L R S L R S D D T A V Y Y C A R G G L
361 CGAGAGTATTACTATGCTATGGACTACTGGGGTCAAGGAACCATGGTCACCGTCTCCTCA
   R E Y Y Y A M D Y W G Q G T M V T V S S
421 GCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGG
   A S T K G P S V F P L A P S S K S T S G
481 GGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCG
   G T A A L G C L V K D Y F P E P V T V S
541 TGGAAGTCAAGCGCCCTGACCAGCGCGTGCACACCTTCCCGGCTGTCTACAGTCTCTCA
   W N S G A L T S G V H T F P A V L Q S S
601 GGAAGTCAAGCGCCCTGACCAGCGCGTGCACACCTTCCCGGCTGTCTACAGTCTCTCA
   G L Y S L S S V V T V P S S S L G T Q T
661 TACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
   Y I C N V N H K P S N T K V D K K V E P
721 AAATCTTGTGACAAACTCACACATGCCCACCGTGCCCGAGCACCTGAACTCCTGGGGGGA
   K S C D K T H T C P P C P A P E L L G G
781 CCGTCAGTCTTCTTCTTCCCCCAAAACCCAAGGACACCCCTCATGATCTCCCGGACCCCT
   P S V F L F P P K P K D T L M I S R T P
841 GAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGG
   E V T C V V V D V S H E D P E V K F N W
901 TACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAAC
   Y V D G V E V H N A K T K P R E E Q Y N
961 AGCACGTACCGTGTGGTGCAGCGTCTCACCGTCTGCACCAGGACTGGCTGAATGGCAAG
   S T Y R V V S V L T V L H Q D W L N G K
1021 GAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCC
   E Y K C K V S N K A L P A P I E K T I S
1081 AAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAG
   K A K G Q P R E P Q V Y T L P P S R D E
1141 CTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATC
   L T K N Q V S L T C L V K G F Y P S D I
1201 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGAGAACAACTACAAGACCACGCCTCCCGTG
   A V E W E S N G Q P E N N Y K T T P P V
1261 CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGG
   L D S D G S F F L Y S K L T V D K S R W
1321 CAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
   Q Q G N V F S C S V M H E A L H N H Y T
1381 CAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA
   Q K S L S L S P G K .

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[図15]

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1  ATGGGTTGGAGCTGTATCATCTTCTTTCTGGTAGCAACAGCTACAGGCGTGCACTCCCAA
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61  GTCCAGCTGGTGCAGTCTGGGGCTGAAGTGAAGAAGCCTGGGGCCTCAGTGAAAGTCTCC
   V Q L V Q S G A E V K K P G A S V K V S
121 TGCAAGGGTTCCGGCTACACATTCAGTATTATGCTATGCACTGGGTGCGACAGGCCCT
   C K G S G Y T F T D Y A M H W V R Q A P
181 GGACAAGGCCTGGAGTGGATTGGAGTTATTAGTACTTACTATGGTAATACAACTACAAC
   G Q G L E W I G V I S T Y Y G N T N Y N
241 CAGAAGTTTAAGGGCAAGGCCACAATGACTGTGACAAATCCACCAGCACAGCCTATATG
   Q K F K G K A T M T V D K S T S T A Y M
301 GAACTTAGGAGCTTGAGATCTGACGATACTGCCGTGTATTACTGTGCAAGAGGAGGATTG
   E L R S L R S D D T A V Y Y C A R G G L
361 CGAGAGTATTACTATGCTATGGACTACTGGGGTCAAGGAACCATGGTCACCGTCTCCTCA
   R E Y Y Y A M D Y W G Q G T M V T V S S
421 GCCTCCACCAAGGGCCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGG
   A S T K G P S V F P L A P S S K S T S G
481 GGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGCG
   G T A A L G C L V K D Y F P E P V T V S
541 TGGAAGTCAAGCGCCCTGACCAGCGCGTGCACACCTTCCCGGCTGTCTACAGTCCTCA
   W N S G A L T S G V H T F P A V L Q S S
601 GGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCGAGACC
   G L Y S L S V V T V P S S S L G T Q T
661 TACATCTGCAACGTGAATCACAGCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
   Y I C N V N H K P S N T R V D K R V E P
721 AAATCTTGTGACAAACTCACACATGCCCCACCGTGCCAGCACCTGAACTCCTGGGGGGA
   K S C D K T H T C P P C P A P E L L G G
781 CCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCCTCATGATCTCCCGGACCCCT
   P S V F L F P P K P K D T L M I S R T P
841 GAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGG
   E V T C V V V D V S H E D P E V K F N W
901 TACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAAC
   Y V D G V E V H N A K T K P R E E Q Y N
961 AGCACGTACCGTGTGGTTCAGCGTCTCACCCTCCTGCACCAGGACTGGCTGAATGGCAAG
   S T Y R V V S V L T V L H Q D W L N G K
1021 GAGTACAAGTGCAAGGTCTCCAACAAGCCCTCCAGCCCCCATCGAGAAABACCATCTCC
   E Y K C K V S N K A L P A P I E K T I S
1081 AAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAG
   K A K G Q P R E P Q V Y T L P P S R D E
1141 CTGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATC
   L T K N Q V S L T C L V K G F Y P S D I
1201 GCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAACAAGACCACGCTCCCGTG
   A V E W E S N G Q P E N N Y K T T P P V
1261 CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGG
   L D S D G S F F L Y S K L T V D K S R W
1321 CAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
   Q Q G N V F S C S V M H E A L H N H Y T
1381 CAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA
   Q K S L S L S P G K *

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HuBA-1-3D-VH1 (4)
HuBA-1-3D-VH1 A24G (16)
HuBA-1-3D-VH1 T73K (20)
HuBA-1-3D-VH1 A24G/T73K (24)
HuBA-1-3D-VH2 (8)
HuBA-1-3D-VH2 A24G (28)
HuBA-1-3D-VH2 T73K (32)
HuBA-1-3D-VH2 A24G/T73K (36)

HuBA-1-3D-VH1 (4)
HuBA-1-3D-VH1 A24G (16)
HuBA-1-3D-VH1 T73K (20)
HuBA-1-3D-VH1 A24G/T73K (24)
HuBA-1-3D-VH2 (8)
HuBA-1-3D-VH2 A24G (28)
HuBA-1-3D-VH2 T73K (32)
HuBA-1-3D-VH2 A24G/T73K (36)