**1jsma**



Position Length Weight pI 1/2 life HPLC rt FragmentArmillaria M., Cys mod. - 29 cuts1 3 374.38 3.45 3m 7.16 DQI4 18 2025.19 3.96 ? 57.57 CIGYHANNSTEQVDTIME22 13 1467.63 5.41 3m 16.19 KNVTVTHAQDILE35 5 555.57 9.00 3m -3.68 KTHNG40 2 259.33 9.00 3m 4.81 KL42 6 619.68 3.45 ? 5.90 CDLNGV48 7 854.04 9.00 3m 17.21 KPLILRD55 12 1247.49 5.71 ? 21.29 CSVAGWLLGNPM67 15 1843.03 3.25 ? 62.28 CDEFLNVPEWSYIVE82 8 855.93 5.97 3m 6.32 KDNPVNGL90 12 1535.60 3.25 ? 19.42 CYPENFNDYEEL102 11 1312.43 7.32 3m 18.25 KHLLSSTNHFE113 22 2355.58 10.89 3m 60.65 KIRIIPRSS...DASSGVSSA135 17 2058.38 9.37 ? 63.64 CPYNGRSSFFRNVVWLI152 1 146.17 9.00 3m -6.38 K153 8 920.02 8.85 3m 9.96 KNNAYPTI161 28 3278.53 5.41 3m 65.37 KRSYNNTNQ...HPNDAAEQT189 29 3221.60 9.77 3m 64.96 KLYQNPTTY...SVPEIATRP218 16 1913.21 9.01 3m 63.83 KVNGQSGRMEFFWTIL234 21 2374.53 3.96 3m 60.71 KPNDAINFESNGNFIAPEYAY255 3 358.46 9.00 3m 7.01 KIV258 1 146.17 9.00 3m -6.38 K259 7 662.79 9.00 3m 11.92 KGGSAIM266 8 866.91 6.21 3m 12.02 KSGLEYGN274 3 336.35 5.71 ? -12.49 CNT277 1 146.17 9.00 3m -6.38 K278 24 2596.00 6.29 ? 66.44 CQTPMGAIN...NIHPLTIGE302 2 218.26 5.71 ? -1.71 CP304 3 408.48 8.85 3m 6.27 KYV307 19 2095.42 11.81 3m 58.15 KSGRLVLATGLRNVPQRETArmillaria Mellea - 20 cuts1 21 2381.57 3.69 3m 60.76 DQICIGYHANNSTEQVDTIME22 13 1467.63 5.41 3m 16.19 KNVTVTHAQDILE35 5 555.57 9.00 3m -3.68 KTHNG40 8 861.01 5.95 3m 11.75 KLCDLNGV48 34 3908.57 4.01 3m 73.27 KPLILRDCS...VPEWSYIVE82 20 2373.52 3.62 3m 57.37 KDNPVNGLCYPENFNDYEEL102 11 1312.43 7.32 3m 18.25 KHLLSSTNHFE113 39 4395.96 10.92 3m 71.61 KIRIIPRSS...FFRNVVWLI152 1 146.17 9.00 3m -6.38 K153 8 920.02 8.85 3m 9.96 KNNAYPTI161 28 3278.53 5.41 3m 65.37 KRSYNNTNQ...HPNDAAEQT189 29 3221.60 9.77 3m 64.96 KLYQNPTTY...SVPEIATRP218 16 1913.21 9.01 3m 63.83 KVNGQSGRMEFFWTIL234 21 2374.53 3.96 3m 60.71 KPNDAINFESNGNFIAPEYAY255 3 358.46 9.00 3m 7.01 KIV258 1 146.17 9.00 3m -6.38 K259 7 662.79 9.00 3m 11.92 KGGSAIM266 11 1185.26 6.18 3m 10.86 KSGLEYGNCNT277 27 2924.43 7.19 3m 66.73 KCQTPMGAI...HPLTIGECP304 3 408.48 8.85 3m 6.27 KYV307 19 2095.42 11.81 3m 58.15 KSGRLVLATGLRNVPQRETBNPS or NCS/urea - 6 cuts1 60 6651.53 5.44 3m 75.21 DQICIGYHA...LRDCSVAGW61 16 1877.16 3.30 3m 62.95 LLGNPMCDEFLNVPEW77 46 5497.13 5.59 >20h 74.39 SYIVEKDNP...IRIIPRSSW123 27 2932.13 8.25 >20h 60.74 SNHDASSGV...SSFFRNVVW150 27 3263.72 9.45 3m 67.08 LIKKNNAYP...NQEDLLILW177 54 6060.71 8.70 >20h 73.89 GIHHPNDAA...QSGRMEFFW231 95 10356.97 9.20 >20h 82.01 TILKPNDAI...LRNVPQRETChymotrypsin - 67 cuts1 7 810.91 3.45 3m 16.56 DQICIGY8 1 155.14 7.15 ? -3.06 H9 12 1322.40 3.37 >20h 11.78 ANNSTEQVDTIM21 8 927.01 7.15 30m 3.74 EKNVTVTH29 5 558.62 3.45 >20h 12.83 AQDIL34 4 513.53 7.15 30m 0.80 EKTH38 4 430.49 9.00 ? 3.43 NGKL42 3 349.39 3.45 ? 5.09 CDL45 6 626.74 9.00 ? 7.99 NGVKPL51 2 244.32 5.55 30m 10.83 IL53 8 892.98 5.93 2m 13.74 RDCSVAGW61 1 131.16 5.55 3m 4.52 L62 1 131.16 5.55 3m 4.52 L63 4 417.47 5.55 >20h 3.05 GNPM67 4 512.53 3.36 ? 8.26 CDEF71 1 131.16 5.55 3m 4.52 L72 5 643.68 3.75 ? 11.88 NVPEW77 2 268.25 5.76 >20h 4.92 SY79 11 1197.34 4.18 30m 14.01 IVEKDNPVNGL90 6 771.84 3.75 ? 12.61 CYPENF96 3 410.37 3.45 ? 1.55 NDY99 3 389.39 3.57 30m 7.35 EEL102 2 283.31 9.00 3m -2.56 KH104 1 131.16 5.55 3m 4.52 L105 1 131.16 5.55 3m 4.52 L106 5 544.51 7.15 >20h -2.76 SSTNH111 1 165.18 5.55 3m 6.52 F112 11 1384.63 10.89 30m 23.08 EKIRIIPRSSW123 3 356.32 7.15 >20h -6.12 SNH126 12 1143.18 3.45 3m 13.08 DASSGVSSACPY138 6 666.68 10.04 ? 8.35 NGRSSF144 1 165.18 5.55 3m 6.52 F145 5 672.77 10.04 2m 11.50 RNVVW150 1 131.16 5.55 3m 4.52 L151 14 1695.96 10.21 30m 18.71 IKKNNAYPTIKRSY165 8 946.91 3.37 ? 1.25 NNTNQEDL173 1 131.16 5.55 3m 4.52 L174 2 244.32 5.55 30m 10.83 IL176 1 204.21 5.55 ? 9.36 W177 3 325.35 7.15 >20h 7.63 GIH180 1 155.14 7.15 ? -3.06 H181 10 1086.15 4.18 7m 10.11 PNDAAEQTKL191 1 181.18 5.76 10m 3.87 Y192 6 722.74 5.76 10m 7.25 QNPTTY198 8 762.84 5.55 >20h 11.54 VSVGTSTL206 21 2325.62 11.81 ? 52.02 NQRSVPEIATRPKVNGQSGRM227 2 294.29 3.75 30m 7.81 EF229 1 165.18 5.55 3m 6.52 F230 1 204.21 5.55 ? 9.36 W231 3 345.42 5.55 >20h 11.26 TIL234 8 918.00 5.97 3m 11.64 KPNDAINF242 6 666.63 3.75 30m 5.31 ESNGNF248 5 591.65 3.75 30m 13.39 IAPEY253 2 252.26 5.76 >20h 4.64 AY255 11 1131.42 10.30 3m 17.08 KIVKKGGSAIM266 4 403.46 9.00 3m 6.91 KSGL270 2 310.29 3.75 30m 5.42 EY272 11 1196.38 8.01 >20h 4.29 GNCNTKCQTPM283 7 678.75 5.55 >20h 9.96 GAINSSM290 2 262.29 5.55 7m 8.74 PF292 1 155.14 7.15 ? -3.06 H293 3 382.40 7.15 ? 4.11 NIH296 2 228.28 5.55 7m 7.06 PL298 8 910.04 6.18 >20h 14.15 TIGECPKY306 6 658.78 11.05 >20h 9.72 VKSGRL312 2 230.29 5.55 >20h 6.57 VL314 4 360.40 5.55 >20h 7.01 ATGL318 8 999.08 9.89 2m 6.37 RNVPQRETClostripain - 12 cuts1 53 5932.74 6.04 3m 73.48 DQICIGYHA...NGVKPLILR54 62 7235.09 4.28 3m 77.99 DCSVAGWLL...STNHFEKIR116 4 497.62 10.04 30m 13.42 IIPR120 21 2169.22 7.08 >20h 52.50 SSWSNHDASSGVSSACPYNGR141 5 642.70 10.04 >20h 14.96 SSFFR146 17 2057.45 10.49 ? 58.98 NVVWLIKKNNAYPTIKR163 46 5246.69 5.41 >20h 72.33 SYNNTNQED...VGTSTLNQR209 8 871.98 6.24 >20h 12.48 SVPEIATR217 9 942.03 11.05 7m 6.47 PKVNGQSGR226 85 9448.92 8.64 >20h 81.97 MEFFWTILK...CPKYVKSGR311 8 842.04 10.04 3m 17.62 LVLATGLR319 5 612.67 10.04 ? 2.59 NVPQR324 2 248.22 3.75 30m -2.56 ETCNBr with acids - 12 cuts1 20 2252.46 3.78 3m 60.50 DQICIGYHANNSTEQVDTIM21 40 4417.07 7.19 30m 69.63 EKNVTVTHA...LRDCSVAGW61 6 643.79 5.55 3m 14.24 LLGNPM67 10 1251.37 3.30 ? 20.25 CDEFLNVPEW77 46 5497.13 5.59 >20h 74.39 SYIVEKDNP...IRIIPRSSW123 27 2932.13 8.25 >20h 60.74 SNHDASSGV...SSFFRNVVW150 27 3263.72 9.45 3m 67.08 LIKKNNAYP...NQEDLLILW177 50 5451.02 9.58 >20h 69.72 GIHHPNDAA...KVNGQSGRM227 4 627.68 3.75 30m 19.48 EFFW231 35 3815.38 8.58 >20h 69.87 TILKPNDAI...VKKGGSAIM266 17 1874.13 7.99 3m 51.08 KSGLEYGNCNTKCQTPM283 7 678.75 5.55 >20h 9.96 GAINSSM290 36 4042.71 9.77 7m 70.65 PFHNIHPLT...LRNVPQRETCNBr, Cys methylated - 15 cuts1 3 374.38 3.45 3m 7.16 DQI4 17 1896.08 4.17 ? 57.25 CIGYHANNSTEQVDTIM21 21 2375.64 7.31 30m 57.93 EKNVTVTHAQDILEKTHNGKL42 13 1455.73 6.02 ? 20.44 CDLNGVKPLILRD55 12 1247.49 5.71 ? 21.29 CSVAGWLLGNPM67 23 2680.96 3.62 ? 63.84 CDEFLNVPE...EKDNPVNGL67 0 0.00 0.00 ? -7.04 90 45 5167.60 6.05 ? 72.15 CYPENFNDY...DASSGVSSA135 92 10510.81 9.88 ? 80.84 CPYNGRSSF...KVNGQSGRM227 39 4425.06 6.45 30m 74.00 EFFWTILKP...VKKGGSAIM266 8 866.91 6.21 3m 12.02 KSGLEYGN274 4 464.52 8.23 ? -11.51 CNTK278 5 578.70 5.71 ? 7.01 CQTPM283 7 678.75 5.55 >20h 9.96 GAINSSM290 12 1374.55 6.29 7m 22.24 PFHNIHPLTIGE302 24 2686.16 10.31 ? 61.45 CPKYVKSGR...LRNVPQRETCNBr - 6 cuts1 20 2252.46 3.78 3m 60.50 DQICIGYHANNSTEQVDTIM21 46 5042.86 7.19 30m 72.58 EKNVTVTHA...AGWLLGNPM67 160 18323.38 7.35 ? 88.92 CDEFLNVPE...KVNGQSGRM227 39 4425.06 6.45 30m 74.00 EFFWTILKP...VKKGGSAIM266 17 1874.13 7.99 3m 51.08 KSGLEYGNCNTKCQTPM283 7 678.75 5.55 >20h 9.96 GAINSSM290 36 4042.71 9.77 7m 70.65 PFHNIHPLT...LRNVPQRETEndopeptidase LysC - 20 cuts1 22 2509.74 4.14 3m 60.46 DQICIGYHA...EQVDTIMEK23 13 1467.63 5.41 ? 16.19 NVTVTHAQDILEK36 5 555.57 9.00 >20h -3.68 THNGK41 8 861.01 5.95 3m 11.75 LCDLNGVK49 34 3908.57 4.01 7m 73.27 PLILRDCSV...PEWSYIVEK83 20 2373.52 3.62 3m 57.37 DNPVNGLCYPENFNDYEELK103 11 1312.43 7.32 ? 18.25 HLLSSTNHFEK114 39 4395.96 10.92 30m 71.61 IRIIPRSSW...FRNVVWLIK153 1 146.17 9.00 3m -6.38 K154 8 920.02 8.85 ? 9.96 NNAYPTIK162 28 3278.53 5.41 2m 65.37 RSYNNTNQE...PNDAAEQTK190 29 3221.60 9.77 3m 64.96 LYQNPTTYV...VPEIATRPK219 16 1913.21 9.01 >20h 63.83 VNGQSGRMEFFWTILK235 21 2374.53 3.96 7m 60.71 PNDAINFESNGNFIAPEYAYK256 3 358.46 9.00 30m 7.01 IVK259 1 146.17 9.00 3m -6.38 K260 7 662.79 9.00 >20h 11.92 GGSAIMK267 11 1185.26 6.18 >20h 10.86 SGLEYGNCNTK278 27 2924.43 7.19 ? 66.73 CQTPMGAIN...PLTIGECPK305 3 408.48 8.85 10m 6.27 YVK308 18 1967.25 11.80 >20h 58.49 SGRLVLATGLRNVPQRETHydroxylamine - 7 cuts1 38 4311.72 4.82 3m 67.15 DQICIGYHA...QDILEKTHN39 7 761.88 5.95 >20h 10.38 GKLCDLN46 42 4732.47 4.13 >20h 73.31 GVKPLILRD...IVEKDNPVN88 51 5815.36 6.05 >20h 73.96 GLCYPENFN...GVSSACPYN139 17 2065.39 12.11 >20h 59.60 GRSSFFRNVVWLIKKNN156 65 7369.18 8.57 >20h 76.42 AYPTIKRSY...EIATRPKVN221 24 2802.11 4.56 >20h 66.69 GQSGRMEFF...NDAINFESN245 81 8799.25 9.46 >20h 79.97 GNFIAPEYA...LRNVPQRETMild acid hydrolysis - 0 cuts1 325 36531.35 7.62 3m 99.08 DQICIGYHA...LRNVPQRETNBS, long exposure - 29 cuts1 7 810.91 3.45 3m 16.56 DQICIGY8 1 155.14 7.15 ? -3.06 H9 20 2231.41 4.55 >20h 52.30 ANNSTEQVDTIMEKNVTVTH29 9 1054.15 5.41 >20h 15.09 AQDILEKTH38 23 2471.91 8.00 ? 63.51 NGKLCDLNG...LRDCSVAGW61 16 1877.16 3.30 3m 62.95 LLGNPMCDEFLNVPEW77 2 268.25 5.76 >20h 4.92 SY79 13 1463.66 4.18 30m 17.17 IVEKDNPVNGLCY92 7 897.88 3.36 7m 11.43 PENFNDY99 5 654.70 5.52 30m 9.07 EELKH104 7 770.83 7.15 3m 11.98 LLSSTNH111 12 1531.81 10.89 3m 25.41 FEKIRIIPRSSW123 3 356.32 7.15 >20h -6.12 SNH126 12 1143.18 3.45 3m 13.08 DASSGVSSACPY138 12 1468.62 12.10 ? 20.76 NGRSSFFRNVVW150 8 963.12 9.74 3m 12.73 LIKKNNAY158 7 863.99 10.05 7m 14.01 PTIKRSY165 12 1472.61 3.37 ? 21.64 NNTNQEDLLILW177 3 325.35 7.15 >20h 7.63 GIH180 1 155.14 7.15 ? -3.06 H181 11 1249.33 4.17 7m 14.18 PNDAAEQTKLY192 6 722.74 5.76 10m 7.25 QNPTTY198 33 3680.15 10.79 >20h 67.52 VSVGTSTLN...QSGRMEFFW231 22 2467.70 3.96 >20h 63.85 TILKPNDAI...NGNFIAPEY253 2 252.26 5.76 >20h 4.64 AY255 17 1809.18 9.85 3m 59.37 KIVKKGGSAIMKSGLEY272 21 2238.56 8.02 >20h 56.51 GNCNTKCQTPMGAINSSMPFH293 3 382.40 7.15 ? 4.11 NIH296 10 1120.32 6.18 7m 18.56 PLTIGECPKY306 20 2194.55 11.81 >20h 58.96 VKSGRLVLATGLRNVPQRETNBS, short exposure - 19 cuts1 7 810.91 3.45 3m 16.56 DQICIGY8 53 5858.62 6.05 ? 72.25 HANNSTEQV...LRDCSVAGW61 16 1877.16 3.30 3m 62.95 LLGNPMCDEFLNVPEW77 2 268.25 5.76 >20h 4.92 SY79 13 1463.66 4.18 30m 17.17 IVEKDNPVNGLCY92 7 897.88 3.36 7m 11.43 PENFNDY99 24 2921.33 8.84 30m 68.45 EELKHLLSS...IRIIPRSSW123 15 1481.51 5.09 >20h 45.89 SNHDASSGVSSACPY138 12 1468.62 12.10 ? 20.76 NGRSSFFRNVVW150 8 963.12 9.74 3m 12.73 LIKKNNAY158 7 863.99 10.05 7m 14.01 PTIKRSY165 12 1472.61 3.37 ? 21.64 NNTNQEDLLILW177 15 1693.82 6.30 >20h 56.75 GIHHPNDAAEQTKLY192 6 722.74 5.76 10m 7.25 QNPTTY198 33 3680.15 10.79 >20h 67.52 VSVGTSTLN...QSGRMEFFW231 22 2467.70 3.96 >20h 63.85 TILKPNDAI...NGNFIAPEY253 2 252.26 5.76 >20h 4.64 AY255 17 1809.18 9.85 3m 59.37 KIVKKGGSAIMKSGLEY272 34 3705.28 7.89 >20h 67.12 GNCNTKCQT...LTIGECPKY306 20 2194.55 11.81 >20h 58.96 VKSGRLVLATGLRNVPQRETNTCB - 9 cuts1 3 374.38 3.45 3m 7.16 DQI4 38 4253.72 6.04 ? 66.97 CIGYHANNS...LEKTHNGKL42 13 1455.73 6.02 ? 20.44 CDLNGVKPLILRD55 12 1247.49 5.71 ? 21.29 CSVAGWLLGNPM67 23 2680.96 3.62 ? 63.84 CDEFLNVPE...EKDNPVNGL90 45 5167.60 6.05 ? 72.15 CYPENFNDY...DASSGVSSA135 139 15766.78 9.51 ? 87.84 CPYNGRSSF...MKSGLEYGN274 4 464.52 8.23 ? -11.51 CNTK278 24 2596.00 6.29 ? 66.44 CQTPMGAIN...NIHPLTIGE302 24 2686.16 10.31 ? 61.45 CPKYVKSGR...LRNVPQRETPancreatic Elastase - 80 cuts1 6 647.74 3.45 3m 13.23 DQICIG7 3 389.40 7.15 10m 6.47 YHA10 3 333.29 5.55 ? -24.35 NNS13 4 475.48 3.75 >20h 3.24 TEQV17 8 949.08 4.18 3m 10.75 DTIMEKNV25 2 218.24 5.55 >20h -1.53 TV27 3 327.33 7.15 >20h -0.73 THA30 10 1154.23 5.41 10m 14.09 QDILEKTHNG40 7 761.88 5.95 3m 10.38 KLCDLNG47 1 117.13 5.55 >20h -2.66 V48 9 1044.27 8.23 3m 17.62 KPLILRDCS57 1 117.13 5.55 >20h -2.66 V58 1 89.08 5.55 >20h -5.38 A59 1 75.05 5.55 >20h -4.34 G60 4 487.58 5.55 ? 17.86 WLLG64 10 1181.34 3.36 ? 15.46 NPMCDEFLNV74 4 517.52 3.75 7m 12.70 PEWS78 3 393.47 5.76 10m 11.78 YIV81 6 700.73 4.18 30m 1.18 EKDNPV87 2 189.16 5.55 ? -10.59 NG89 18 2227.47 4.28 3m 63.59 LCYPENFNDYEELKHLLS107 1 105.08 5.55 >20h -4.79 S108 13 1610.86 10.89 >20h 21.84 TNHFEKIRIIPRS121 1 105.08 5.55 >20h -4.79 S122 2 291.29 5.55 ? 10.08 WS124 4 455.41 5.10 ? -5.50 NHDA128 1 105.08 5.55 >20h -4.79 S129 1 105.08 5.55 >20h -4.79 S130 1 75.05 5.55 >20h -4.34 G131 1 117.13 5.55 >20h -2.66 V132 1 105.08 5.55 >20h -4.79 S133 1 105.08 5.55 >20h -4.79 S134 1 89.08 5.55 >20h -5.38 A135 5 552.59 5.64 ? 5.31 CPYNG140 2 261.27 10.04 2m -2.08 RS142 1 105.08 5.55 >20h -4.79 S143 5 681.78 10.04 3m 13.74 FFRNV148 1 117.13 5.55 >20h -2.66 V149 8 986.16 10.01 ? 15.87 WLIKKNNA157 7 863.99 10.05 10m 14.01 YPTIKRS164 14 1692.83 3.36 10m 23.85 YNNTNQEDLLILWG178 7 802.83 6.29 30m 9.28 IHHPNDA185 1 89.08 5.55 >20h -5.38 A186 13 1584.73 6.26 30m 18.64 EQTKLYQNPTTYV199 1 105.08 5.55 >20h -4.79 S200 1 117.13 5.55 >20h -2.66 V201 1 75.05 5.55 >20h -4.34 G202 2 206.18 5.55 >20h -3.47 TS204 6 717.77 10.04 >20h 7.01 TLNQRS210 1 117.13 5.55 >20h -2.66 V211 4 428.47 3.75 7m 9.03 PEIA215 5 599.71 11.05 >20h 4.23 TRPKV220 2 189.16 5.55 ? -10.59 NG222 2 233.21 5.55 10m -1.17 QS224 1 75.05 5.55 >20h -4.34 G225 14 1768.05 6.27 2m 25.93 RMEFFWTILKPNDA239 5 608.64 3.75 30m 12.12 INFES244 2 189.16 5.55 ? -10.59 NG246 4 463.52 5.55 ? 11.01 NFIA250 4 478.49 3.75 7m 8.39 PEYA254 4 521.64 8.85 10m 11.95 YKIV258 3 331.39 10.01 3m -3.26 KKG261 1 75.05 5.55 >20h -4.34 G262 1 105.08 5.55 >20h -4.79 S263 1 89.08 5.55 >20h -5.38 A264 4 477.61 9.00 30m 9.84 IMKS268 1 75.05 5.55 >20h -4.34 G269 4 480.50 3.75 3m 12.02 LEYG273 11 1196.38 8.01 ? 4.29 NCNTKCQTPMG284 1 89.08 5.55 >20h -5.38 A285 3 332.34 5.55 30m 3.11 INS288 1 105.08 5.55 >20h -4.79 S289 12 1376.63 7.32 >20h 23.13 MPFHNIHPLTIG301 6 737.86 6.18 30m 9.64 ECPKYV307 2 233.25 9.00 3m -4.22 KS309 1 75.05 5.55 >20h -4.34 G310 3 386.48 10.04 2m 7.81 RLV313 2 202.24 5.55 3m 5.26 LA315 2 176.16 5.55 >20h -3.06 TG317 4 500.58 10.04 3m 5.58 LRNV321 5 629.66 6.24 7m 5.37 PQRETPost Proline enzyme - 19 cuts1 49 5437.07 5.43 3m 70.19 DQICIGYHA...LCDLNGVKP50 16 1727.05 5.93 3m 63.97 LILRDCSVAGWLLGNP66 9 1067.24 3.36 >20h 16.58 MCDEFLNVP75 11 1379.47 3.96 30m 19.86 EWSYIVEKDNP86 7 764.89 5.64 >20h 12.48 VNGLCYP93 26 3187.54 5.53 30m 68.15 ENFNDYEEL...HFEKIRIIP119 18 1834.89 7.08 2m 49.94 RSSWSNHDASSGVSSACP137 22 2674.04 10.50 10m 63.22 YNGRSSFFR...LIKKNNAYP159 23 2763.09 7.32 >20h 67.12 TIKRSYNNT...LILWGIHHP182 13 1491.56 4.17 ? 13.92 NDAAEQTKLYQNP195 17 1809.98 9.04 >20h 56.55 TTYVSVGTSTLNQRSVP212 6 685.77 6.24 30m 10.53 EIATRP218 18 2138.50 10.00 3m 64.18 KVNGQSGRMEFFWTILKP236 15 1622.70 3.37 ? 54.72 NDAINFESNGNFIAP251 31 3382.90 8.96 30m 63.83 EYAYKIVKK...NCNTKCQTP282 9 907.07 5.55 >20h 14.35 MGAINSSMP291 6 763.84 7.32 3m 14.29 FHNIHP297 7 731.85 3.75 3m 14.32 LTIGECP304 18 1971.36 11.17 3m 59.44 KYVKSGRLVLATGLRNVP322 4 532.54 6.24 10m 2.45 QRETTrypsin, Arg blocked - 18 cuts1 22 2509.74 4.14 3m 60.46 DQICIGYHA...EQVDTIMEK23 13 1467.63 5.41 ? 16.19 NVTVTHAQDILEK36 5 555.57 9.00 >20h -3.68 THNGK41 42 4751.58 4.13 3m 75.00 LCDLNGVKP...PEWSYIVEK83 20 2373.52 3.62 3m 57.37 DNPVNGLCYPENFNDYEELK103 11 1312.43 7.32 ? 18.25 HLLSSTNHFEK114 39 4395.96 10.92 30m 71.61 IRIIPRSSW...FRNVVWLIK153 1 146.17 9.00 3m -6.38 K154 8 920.02 8.85 ? 9.96 NNAYPTIK162 28 3278.53 5.41 2m 65.37 RSYNNTNQE...PNDAAEQTK190 29 3221.60 9.77 3m 64.96 LYQNPTTYV...VPEIATRPK219 37 4269.75 4.78 >20h 71.74 VNGQSGRME...FIAPEYAYK256 3 358.46 9.00 30m 7.01 IVK259 1 146.17 9.00 3m -6.38 K260 7 662.79 9.00 >20h 11.92 GGSAIMK267 11 1185.26 6.18 >20h 10.86 SGLEYGNCNTK278 27 2924.43 7.19 ? 66.73 CQTPMGAIN...PLTIGECPK305 3 408.48 8.85 10m 6.27 YVK308 18 1967.25 11.80 >20h 58.49 SGRLVLATGLRNVPQRETTrypsin, Cys modified - 36 cuts1 4 477.52 3.45 3m 7.16 DQIC5 18 2050.22 4.55 30m 57.20 IGYHANNSTEQVDTIMEK23 13 1467.63 5.41 ? 16.19 NVTVTHAQDILEK36 5 555.57 9.00 >20h -3.68 THNGK41 2 234.30 5.71 3m 4.52 LC43 11 1237.49 9.00 3m 20.25 DLNGVKPLILR54 2 236.23 3.45 3m -5.74 DC56 12 1247.49 5.71 >20h 21.29 SVAGWLLGNPMC68 15 1868.06 3.83 3m 62.02 DEFLNVPEWSYIVEK83 8 830.90 3.45 3m 6.06 DNPVNGLC91 12 1560.62 3.83 10m 19.52 YPENFNDYEELK103 11 1312.43 7.32 ? 18.25 HLLSSTNHFEK114 2 287.35 10.04 30m 6.16 IR116 4 497.62 10.04 30m 13.42 IIPR120 21 2169.22 7.08 >20h 52.50 SSWSNHDASSGVSSACPYNGR141 5 642.70 10.04 >20h 14.96 SSFFR146 7 871.07 9.00 ? 18.25 NVVWLIK153 1 146.17 9.00 3m -6.38 K154 8 920.02 8.85 ? 9.96 NNAYPTIK162 1 174.19 10.04 2m -3.90 R163 27 3122.34 4.62 >20h 65.37 SYNNTNQED...PNDAAEQTK190 19 2142.34 8.88 3m 59.98 LYQNPTTYVSVGTSTLNQR209 10 1097.26 9.01 >20h 14.09 SVPEIATRPK219 7 716.74 10.04 >20h 3.50 VNGQSGR226 30 3571.01 4.29 >20h 71.39 MEFFWTILK...FIAPEYAYK256 3 358.46 9.00 30m 7.01 IVK259 1 146.17 9.00 3m -6.38 K260 7 662.79 9.00 >20h 11.92 GGSAIMK267 8 841.88 3.75 >20h 11.85 SGLEYGNC275 3 361.38 9.00 ? -11.51 NTK278 1 121.14 5.71 ? -7.04 C279 26 2821.28 7.25 10m 66.73 QTPMGAINS...PLTIGECPK305 3 408.48 8.85 10m 6.27 YVK308 3 318.32 10.04 >20h -0.15 SGR311 8 842.04 10.04 3m 17.62 LVLATGLR319 5 612.67 10.04 ? 2.59 NVPQR324 2 248.22 3.75 30m -2.56 ETTrypsin, Lys blocked - 11 cuts1 53 5932.74 6.04 3m 73.48 DQICIGYHA...NGVKPLILR54 62 7235.09 4.28 3m 77.99 DCSVAGWLL...STNHFEKIR116 4 497.62 10.04 30m 13.42 IIPR120 21 2169.22 7.08 >20h 52.50 SSWSNHDASSGVSSACPYNGR141 5 642.70 10.04 >20h 14.96 SSFFR146 17 2057.45 10.49 ? 58.98 NVVWLIKKNNAYPTIKR163 46 5246.69 5.41 >20h 72.33 SYNNTNQED...VGTSTLNQR209 17 1796.00 10.89 >20h 50.84 SVPEIATRPKVNGQSGR226 85 9448.92 8.64 >20h 81.97 MEFFWTILK...CPKYVKSGR311 8 842.04 10.04 3m 17.62 LVLATGLR319 5 612.67 10.04 ? 2.59 NVPQR324 2 248.22 3.75 30m -2.56 ETTrypsin - 29 cuts1 22 2509.74 4.14 3m 60.46 DQICIGYHA...EQVDTIMEK23 13 1467.63 5.41 ? 16.19 NVTVTHAQDILEK36 5 555.57 9.00 >20h -3.68 THNGK41 13 1453.80 8.23 3m 22.51 LCDLNGVKPLILR54 29 3315.78 3.62 3m 69.54 DCSVAGWLL...PEWSYIVEK83 20 2373.52 3.62 3m 57.37 DNPVNGLCYPENFNDYEELK103 11 1312.43 7.32 ? 18.25 HLLSSTNHFEK114 2 287.35 10.04 30m 6.16 IR116 4 497.62 10.04 30m 13.42 IIPR120 21 2169.22 7.08 >20h 52.50 SSWSNHDASSGVSSACPYNGR141 5 642.70 10.04 >20h 14.96 SSFFR146 7 871.07 9.00 ? 18.25 NVVWLIK153 1 146.17 9.00 3m -6.38 K154 8 920.02 8.85 ? 9.96 NNAYPTIK162 1 174.19 10.04 2m -3.90 R163 27 3122.34 4.62 >20h 65.37 SYNNTNQED...PNDAAEQTK190 19 2142.34 8.88 3m 59.98 LYQNPTTYVSVGTSTLNQR209 10 1097.26 9.01 >20h 14.09 SVPEIATRPK219 7 716.74 10.04 >20h 3.50 VNGQSGR226 30 3571.01 4.29 >20h 71.39 MEFFWTILK...FIAPEYAYK256 3 358.46 9.00 30m 7.01 IVK259 1 146.17 9.00 3m -6.38 K260 7 662.79 9.00 >20h 11.92 GGSAIMK267 11 1185.26 6.18 >20h 10.86 SGLEYGNCNTK278 27 2924.43 7.19 ? 66.73 CQTPMGAIN...PLTIGECPK305 3 408.48 8.85 10m 6.27 YVK308 3 318.32 10.04 >20h -0.15 SGR311 8 842.04 10.04 3m 17.62 LVLATGLR319 5 612.67 10.04 ? 2.59 NVPQR324 2 248.22 3.75 30m -2.56 ETV8 in ammonium acetate - 19 cuts1 14 1564.64 4.17 3m 16.89 DQICIGYHANNSTE15 7 834.93 3.37 10m 13.29 QVDTIME22 13 1467.63 5.41 3m 16.19 KNVTVTHAQDILE35 35 3811.47 6.98 3m 68.72 KTHNGKLCD...LLGNPMCDE70 6 717.81 3.75 3m 14.09 FLNVPE76 6 795.88 3.75 ? 18.99 WSYIVE82 12 1348.48 4.18 3m 13.86 KDNPVNGLCYPE94 6 800.77 3.36 ? 9.64 NFNDYE100 1 147.12 3.75 30m -3.79 E101 12 1425.59 7.32 3m 20.83 LKHLLSSTNHFE113 58 6661.42 10.42 3m 73.03 KIRIIPRSS...RSYNNTNQE171 16 1814.02 4.35 3m 64.76 DLLILWGIHHPNDAAE187 26 2912.19 8.77 10m 62.38 QTKLYQNPT...TLNQRSVPE213 15 1643.87 10.89 30m 50.46 IATRPKVNGQSGRME228 15 1855.11 4.18 3m 65.47 FFWTILKPNDAINFE243 9 947.99 3.75 >20h 13.32 SNGNFIAPE252 19 2043.43 9.74 10m 61.59 YAYKIVKKGGSAIMKSGLE271 31 3376.85 7.19 10m 66.84 YGNCNTKCQ...NIHPLTIGE302 23 2585.05 10.31 ? 60.78 CPKYVKSGR...GLRNVPQRE325 1 119.11 5.55 >20h -5.50 TV8 in phosph. buffer - 31 cuts1 1 133.09 3.45 3m -5.74 D2 13 1449.55 5.36 10m 16.65 QICIGYHANNSTE15 3 360.35 3.45 10m 1.25 QVD18 4 492.58 3.75 >20h 10.46 TIME22 10 1112.19 7.15 3m 5.58 KNVTVTHAQD32 3 373.44 3.75 30m 11.78 ILE35 9 1015.14 8.23 3m 6.82 KTHNGKLCD44 11 1237.49 9.00 3m 20.25 LNGVKPLILRD55 14 1465.73 3.45 ? 21.46 CSVAGWLLGNPMCD69 1 147.12 3.75 30m -3.79 E70 6 717.81 3.75 3m 14.09 FLNVPE76 6 795.88 3.75 ? 18.99 WSYIVE82 2 261.26 5.97 3m -5.14 KD84 10 1105.22 3.75 ? 13.42 NPVNGLCYPE94 4 508.47 3.45 ? 1.76 NFND98 2 310.29 3.75 10m 5.42 YE100 1 147.12 3.75 30m -3.79 E101 12 1425.59 7.32 3m 20.83 LKHLLSSTNHFE113 14 1708.92 10.89 3m 22.93 KIRIIPRSSWSNHD127 44 4970.50 10.05 >20h 67.33 ASSGVSSAC...RSYNNTNQE171 1 133.09 3.45 3m -5.74 D172 12 1427.66 6.29 3m 25.76 LLILWGIHHPND184 3 289.27 3.75 >20h -1.26 AAE187 26 2912.19 8.77 10m 62.38 QTKLYQNPT...TLNQRSVPE213 15 1643.87 10.89 30m 50.46 IATRPKVNGQSGRME228 10 1280.47 5.97 3m 23.97 FFWTILKPND238 5 592.64 3.75 >20h 11.95 AINFE243 9 947.99 3.75 >20h 13.32 SNGNFIAPE252 19 2043.43 9.74 10m 61.59 YAYKIVKKGGSAIMKSGLE271 31 3376.85 7.19 10m 66.84 YGNCNTKCQ...NIHPLTIGE302 23 2585.05 10.31 ? 60.78 CPKYVKSGR...GLRNVPQRE325 1 119.11 5.55 >20h -5.50 TFactor Xa - 0 cuts1 325 36531.35 7.62 3m 99.08 DQICIGYHA...LRNVPQRETEnterokinase - 0 cuts1 325 36531.35 7.62 3m 99.08 DQICIGYHA...LRNVPQRET

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