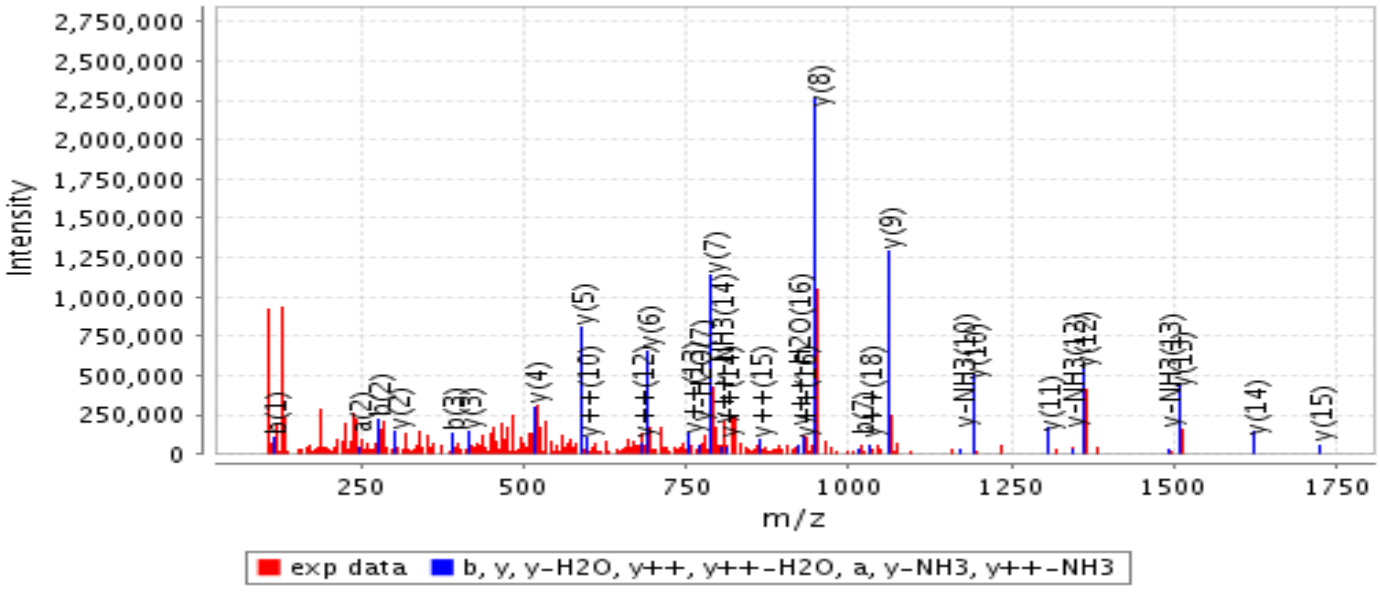
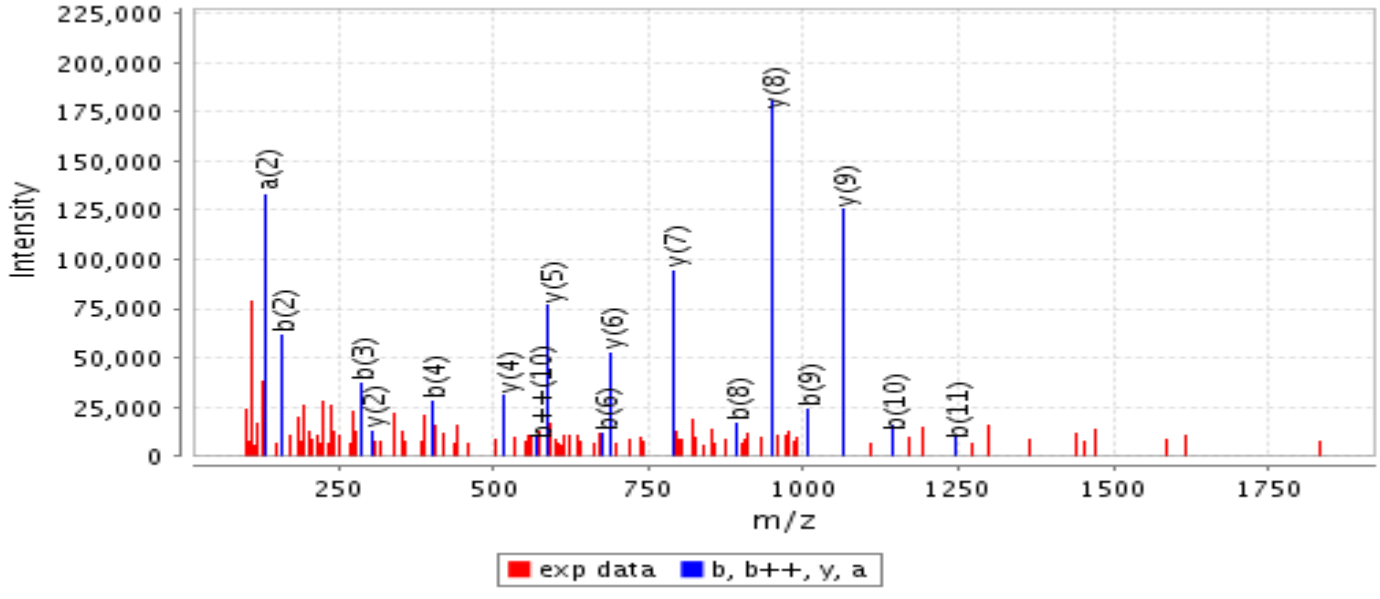
Supplemental data – HCD-MS2 spectra of post-translationally glycated peptides identified in the analysis of human plasma

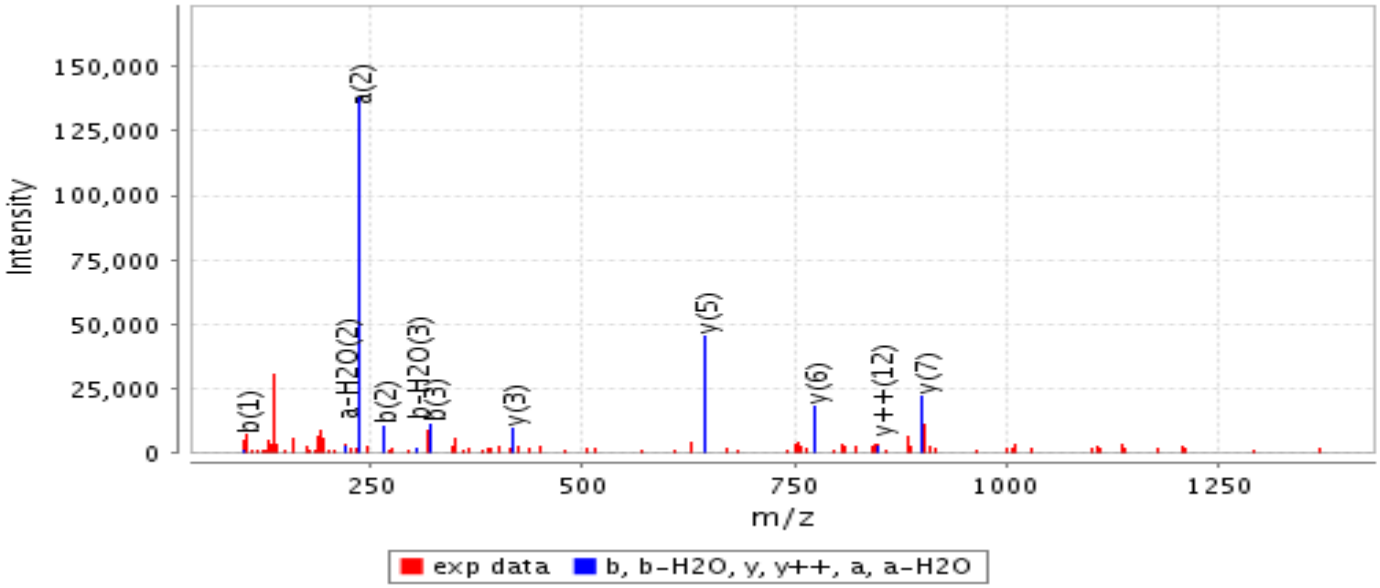
Serum albumin E/NCD**K(¹²Glu₆)**SLHTLFGDKLCTVATLRE/T [M+3H]$^{3+}$ 914.45 m/z



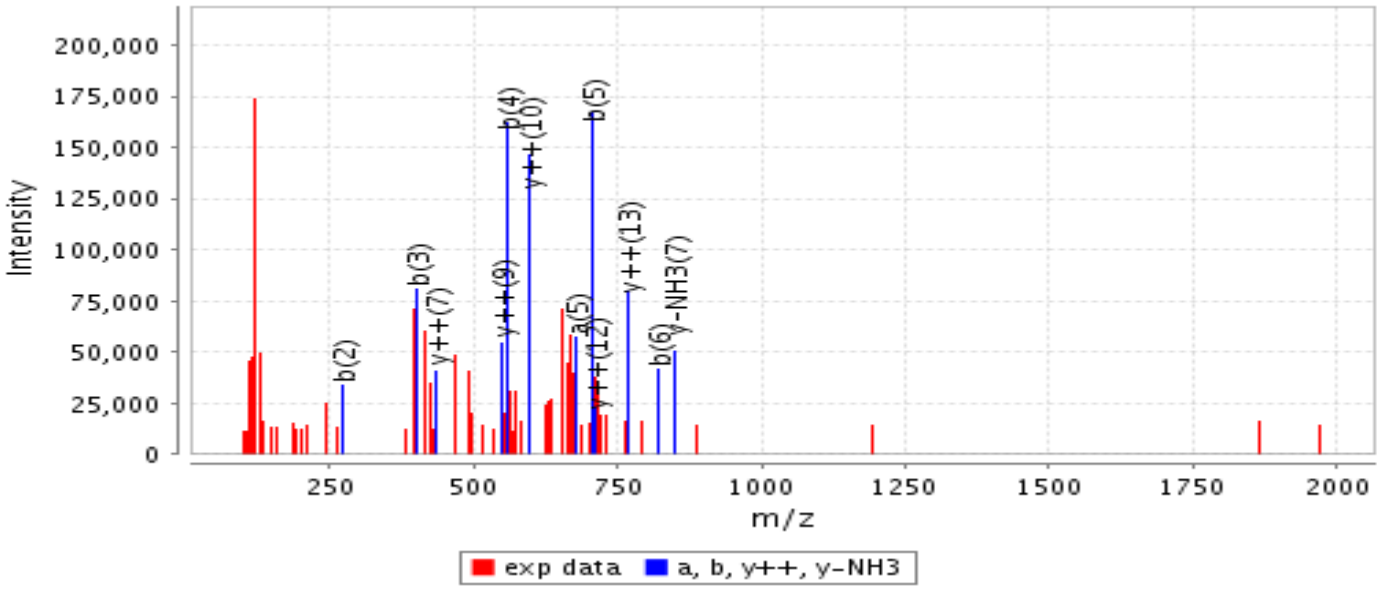
Serum albumin E/SAENCDKSLHTLFGD**K(¹²Glu₆)**LCTVATLRE/T [M+3H]$^{3+}$ 1009.82 m/z



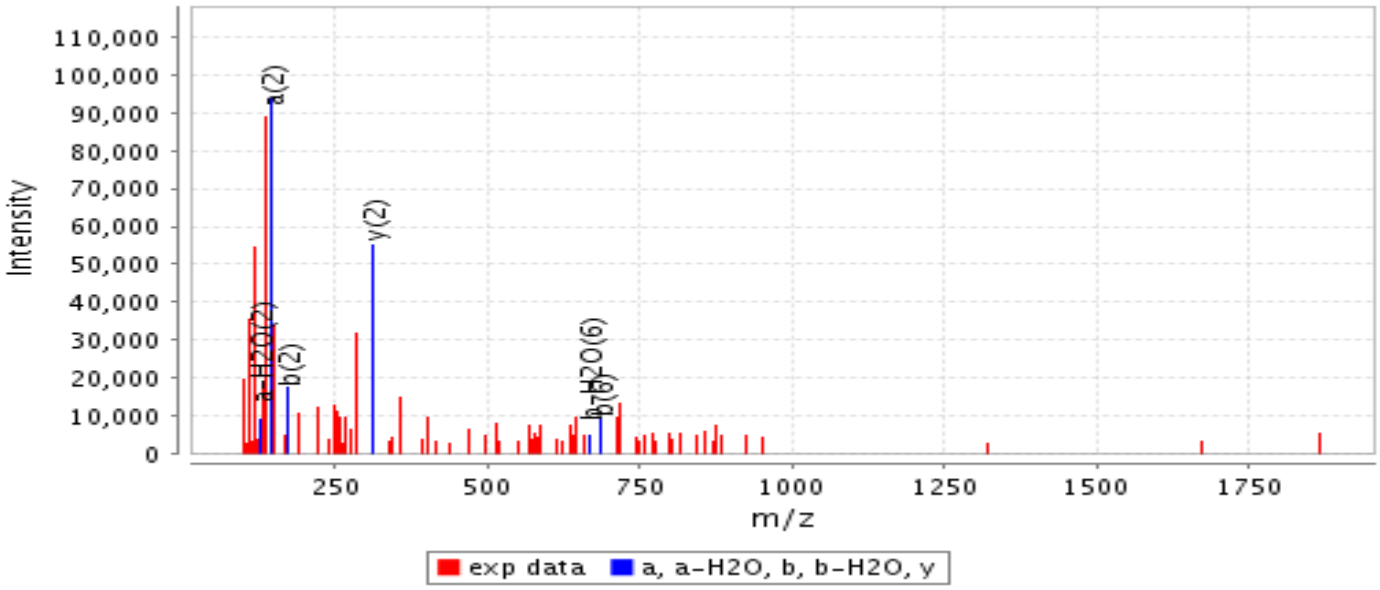
Serum albumin E/TYGEMADCCA**K(12Glu6)**QEPERNE/C [M+3H]3+ 783.98 m/z



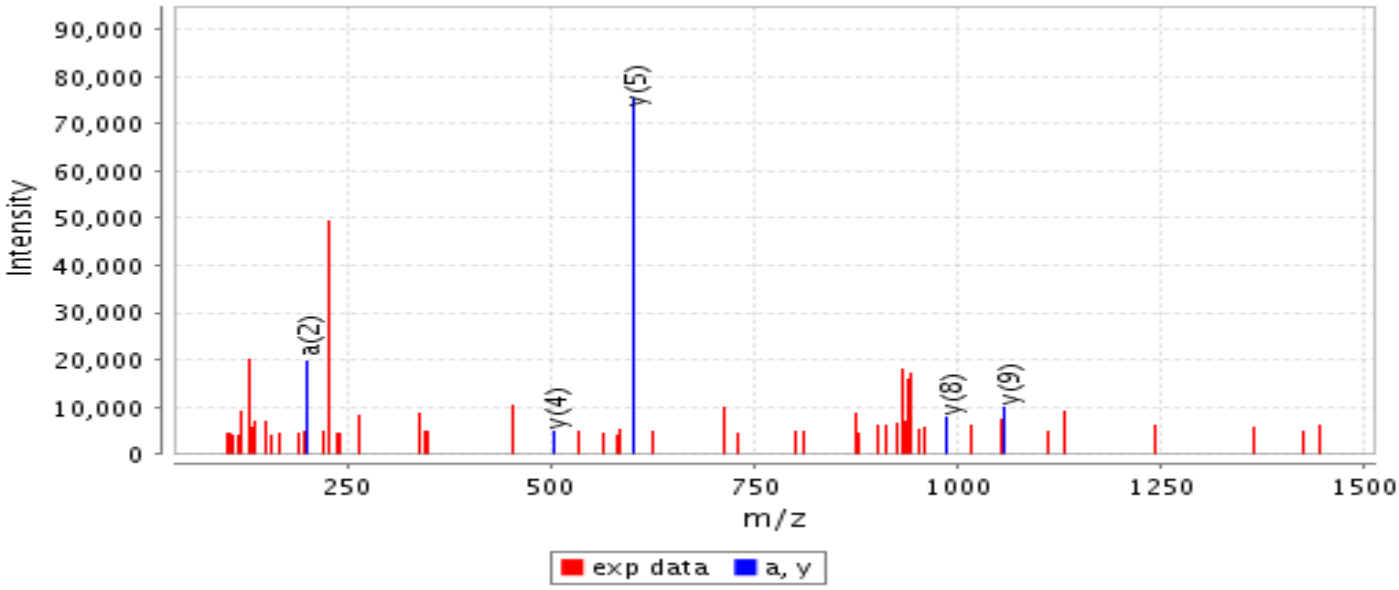
Serum albumin E/RNECFLQH**K(12Glu6)**DDNPNLPRLVRPE/V [M+5H]5+ 582.69 m/z



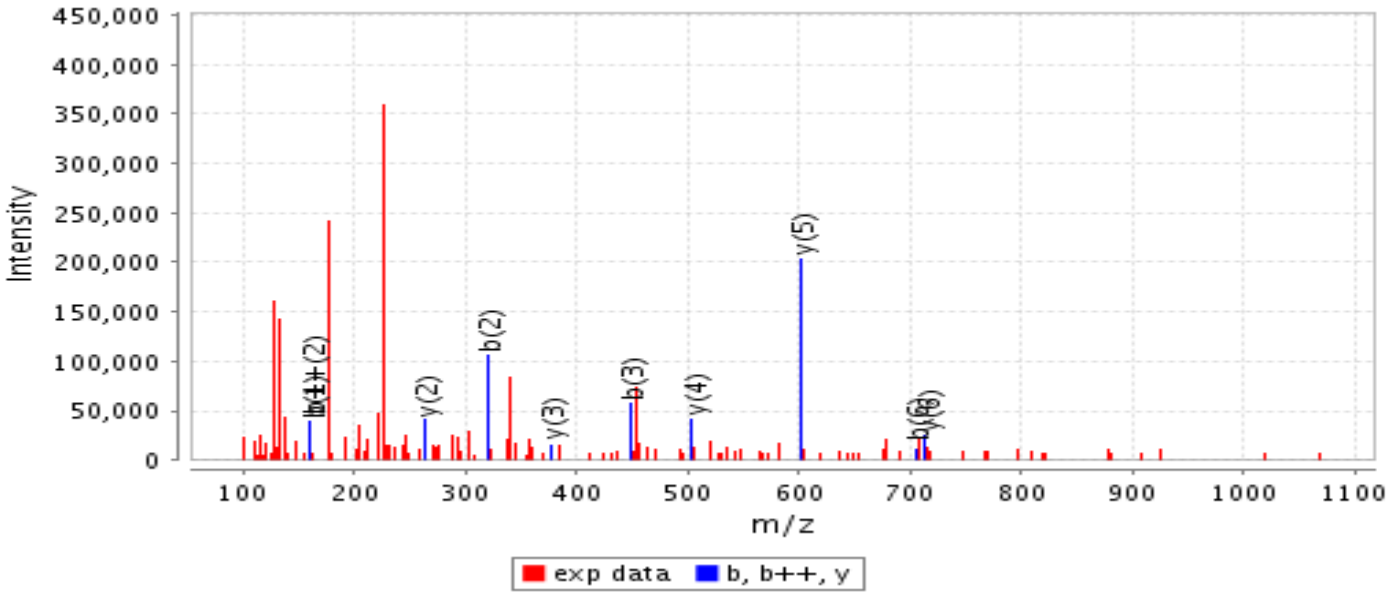
Serum albumin C/TAFHDNEETFL**K(12Glu6)**KYLYE/I [M+4H]4+ 578.28 m/z



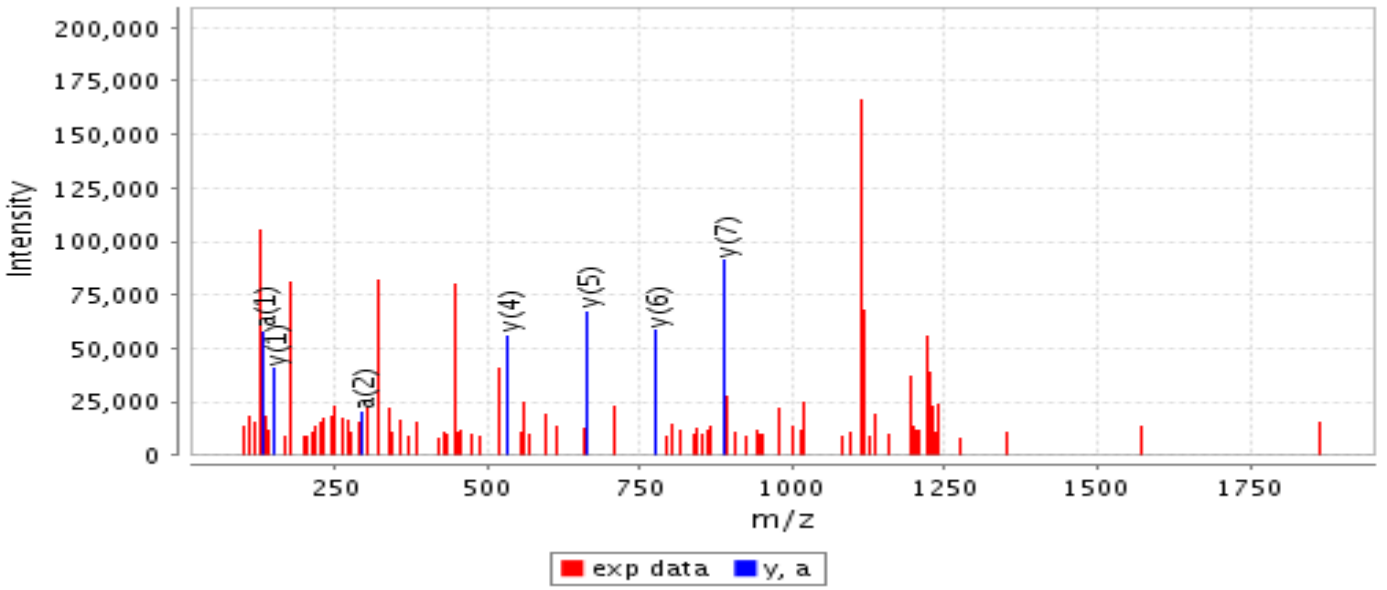
Serum albumin E/LLFFA**K(12Glu6)**RYKAAFTECCQAADKAACLLPKLDE/L [M+4H]4+ 953.48 m/z



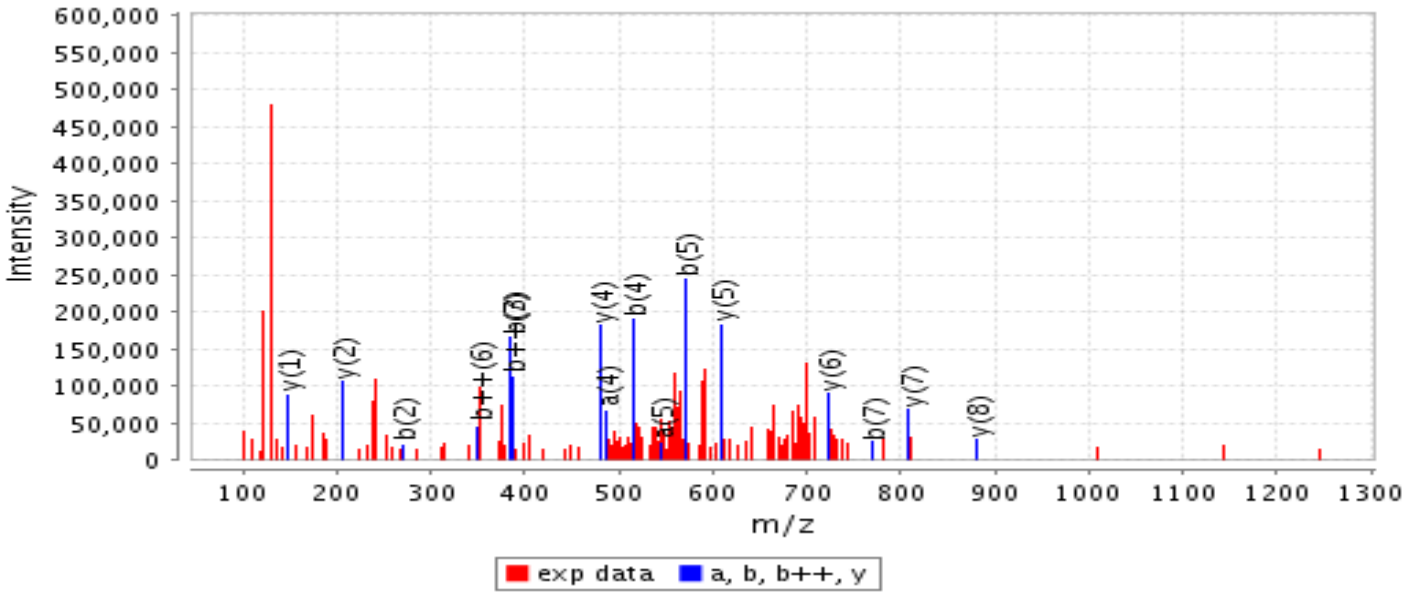
Serum albumin E/CCQAAD**K(**^{12}**Glu**$_6$**)**AACLLPKLDE/L [M+3H]$^{3+}$ 708.99 m/z



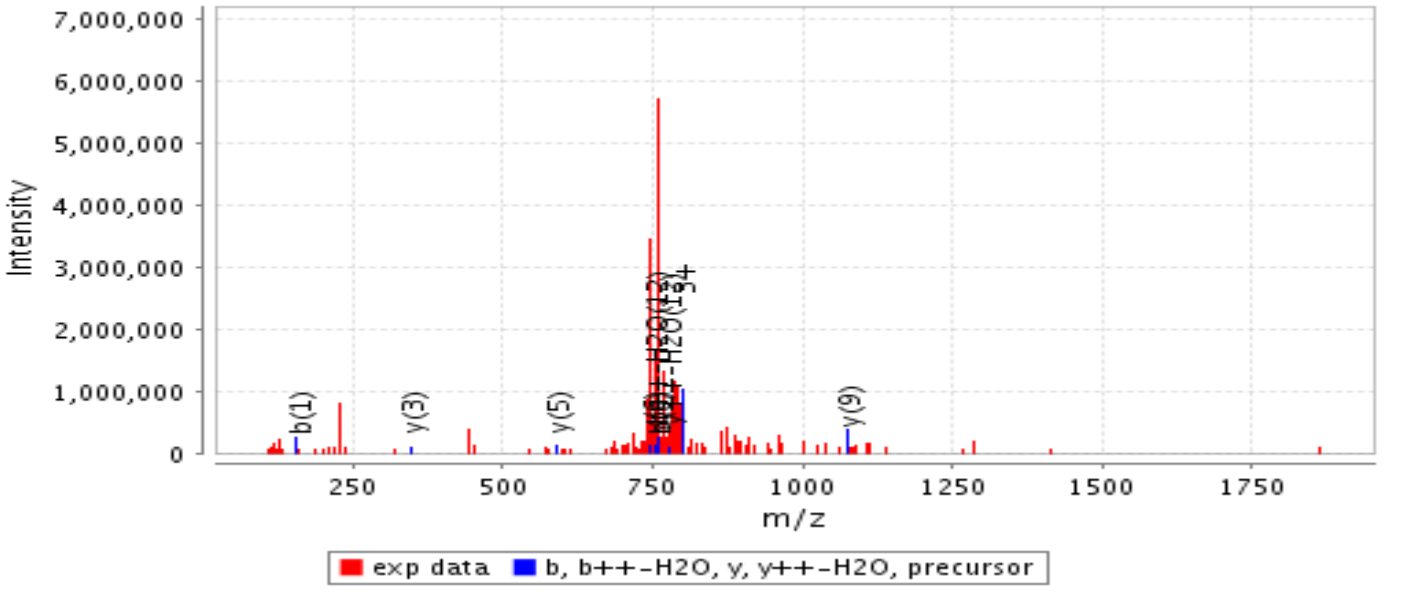
Serum albumin E/CCQAADKAACLLP**K(**^{12}**Glu**$_6$**)**LDELRDE/G [M+3H]$^{3+}$ 880.08 m/z



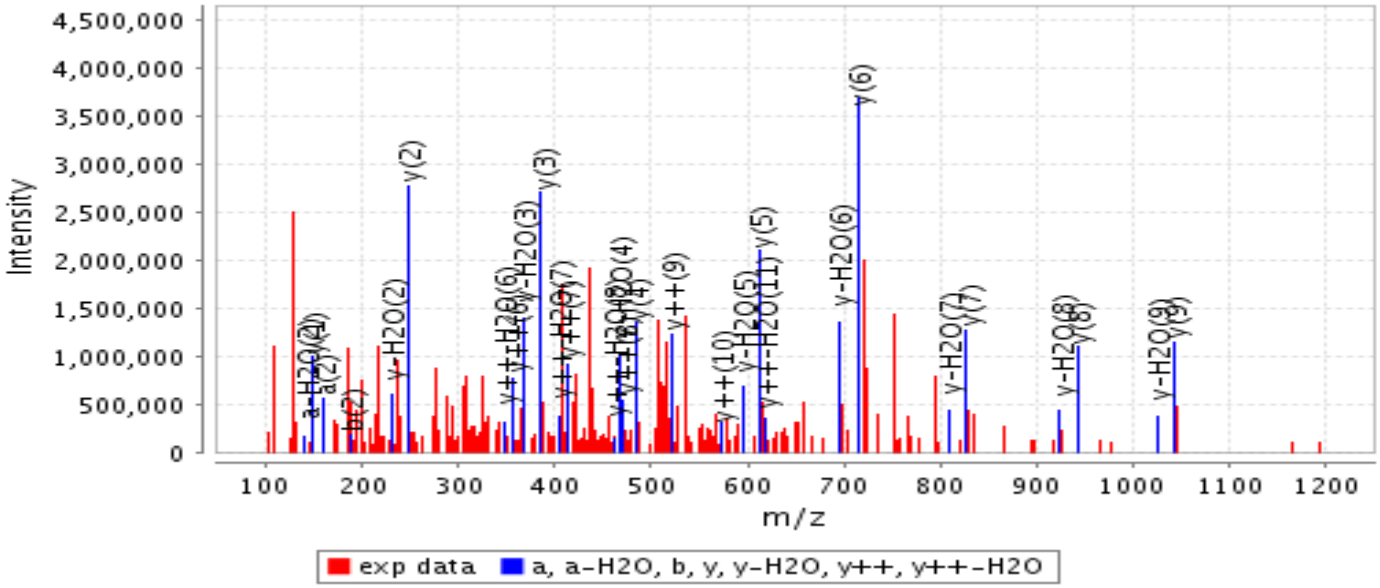
Serum albumin E/LRDEGKASSA**K(¹²Glu$_6$)**QRLKCASLQKFGE/R [M+5H]$^{5+}$ 574.70 m/z



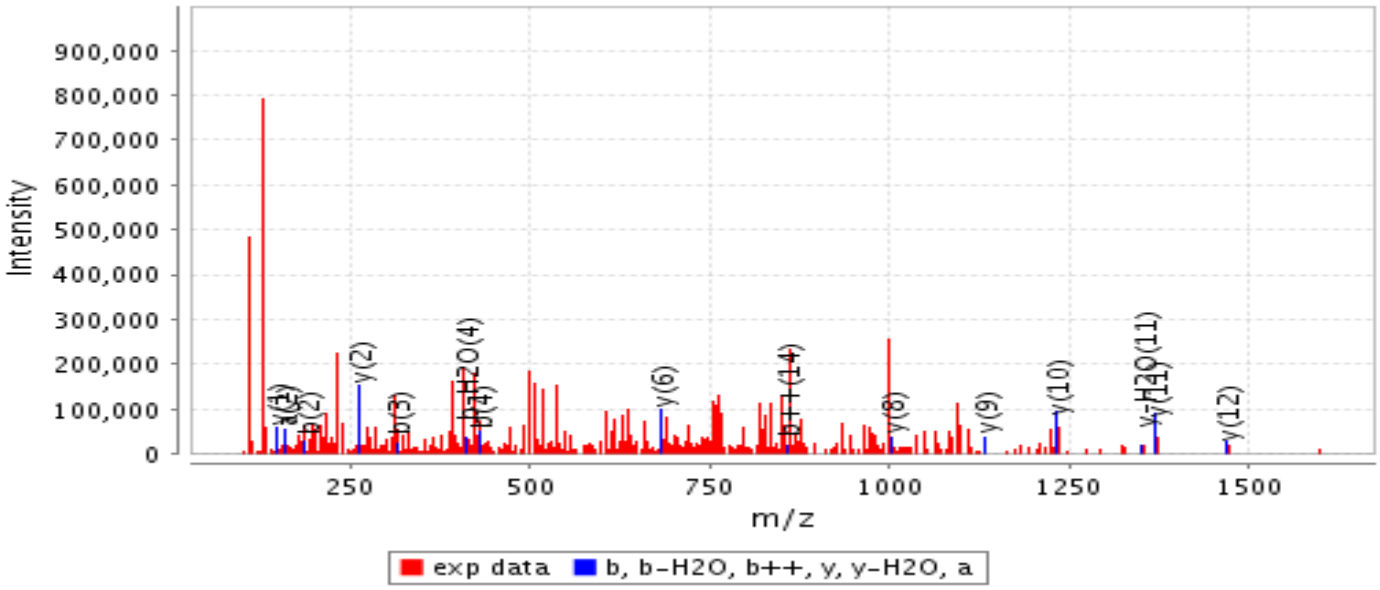
Serum albumin E/RAFKAWAVA**R(¹³Glu$_6$)**LSQRFPKAE/F [M+3H]$^{3+}$ 800.78 m/z



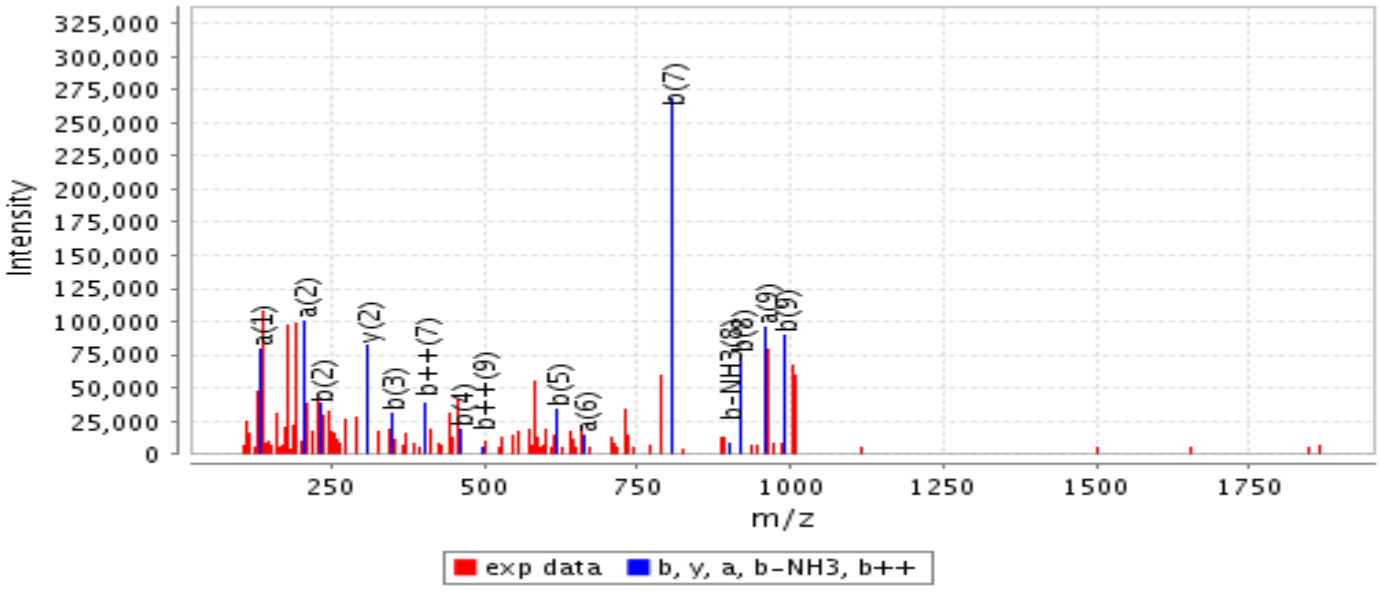
Serum albumin E/VS**K(¹²Glu₆)**LVTDLTKVHTE/C [M+3H]$^{3+}$ 577.98 m/z



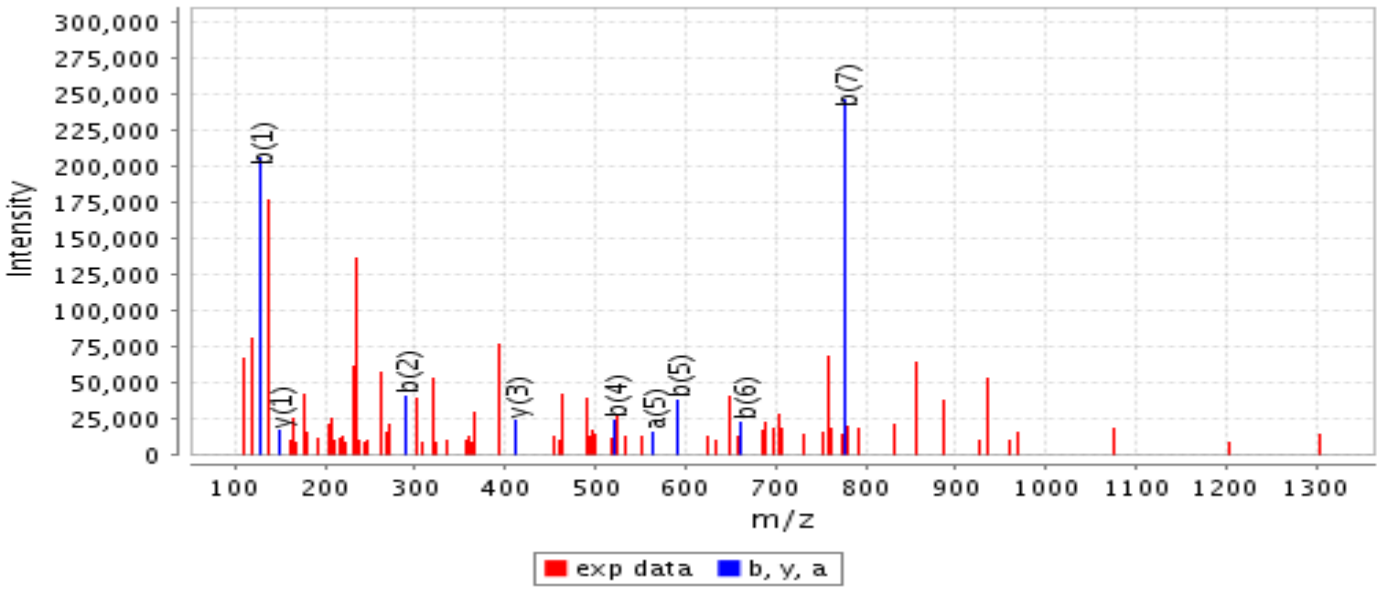
Serum albumin E/VSKLVTDLT**K(¹²Glu₆)**VHTECCHGDLLE/C [M+3H]$^{3+}$ 906.08 m/z



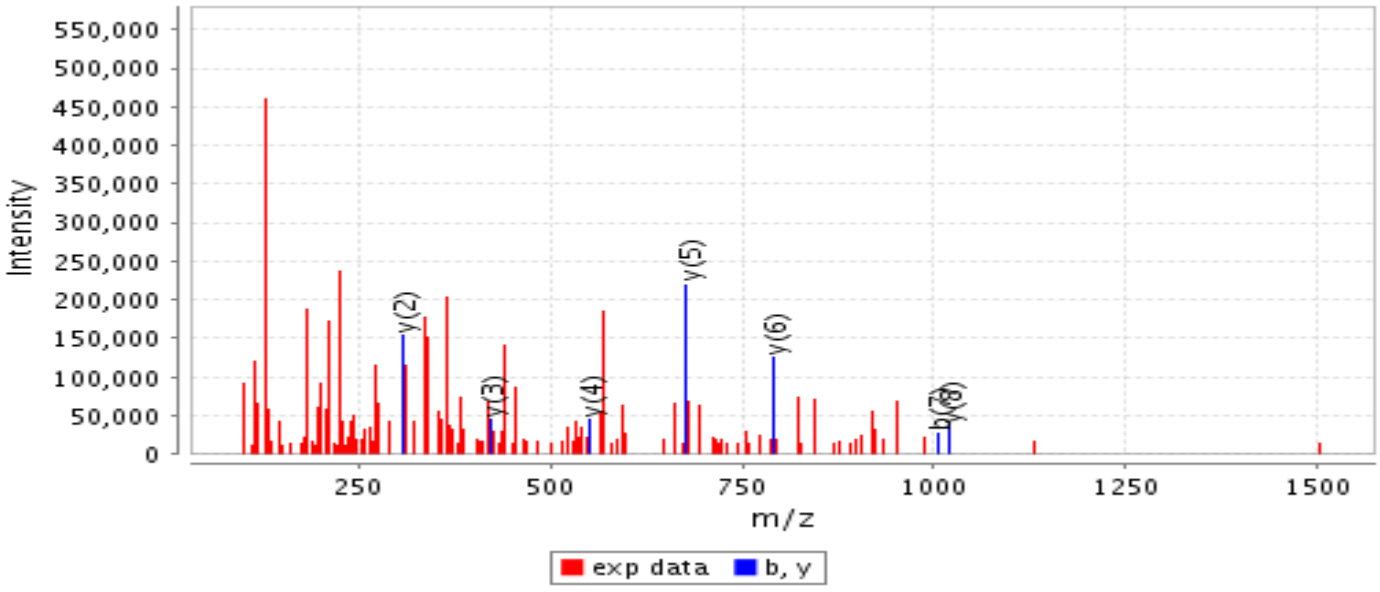
Serum albumin E/CADDRADLA**K(^{12}Glu$_6$)**YICE/N [M+2H]$^{2+}$ 931.40 m/z



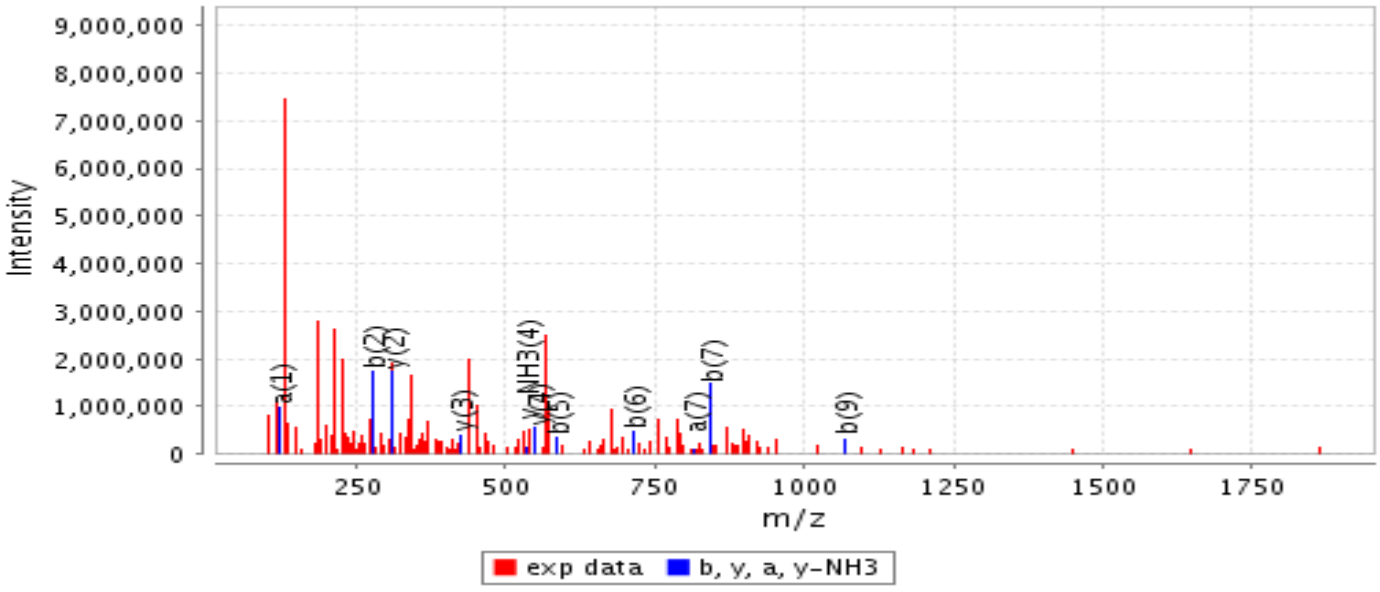
Serum albumin E/**K(^{12}Glu$_6$)**CCAAADPHECYAKVFDE/F [M+3H]$^{3+}$ 778.32 m/z



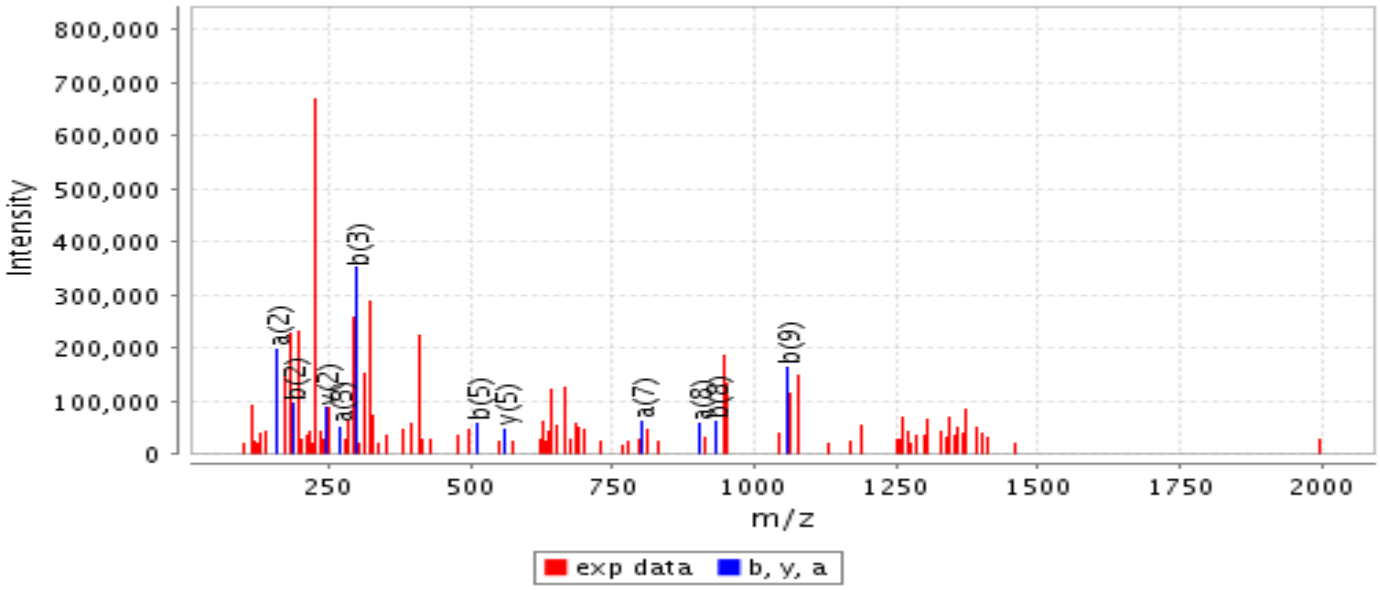
Serum albumin E/F**K(**^{12}**Glu**$_6$**)**PLVEEPQNLIKQNCE/L [M+3H]$^{3+}$ 750.04 m/z



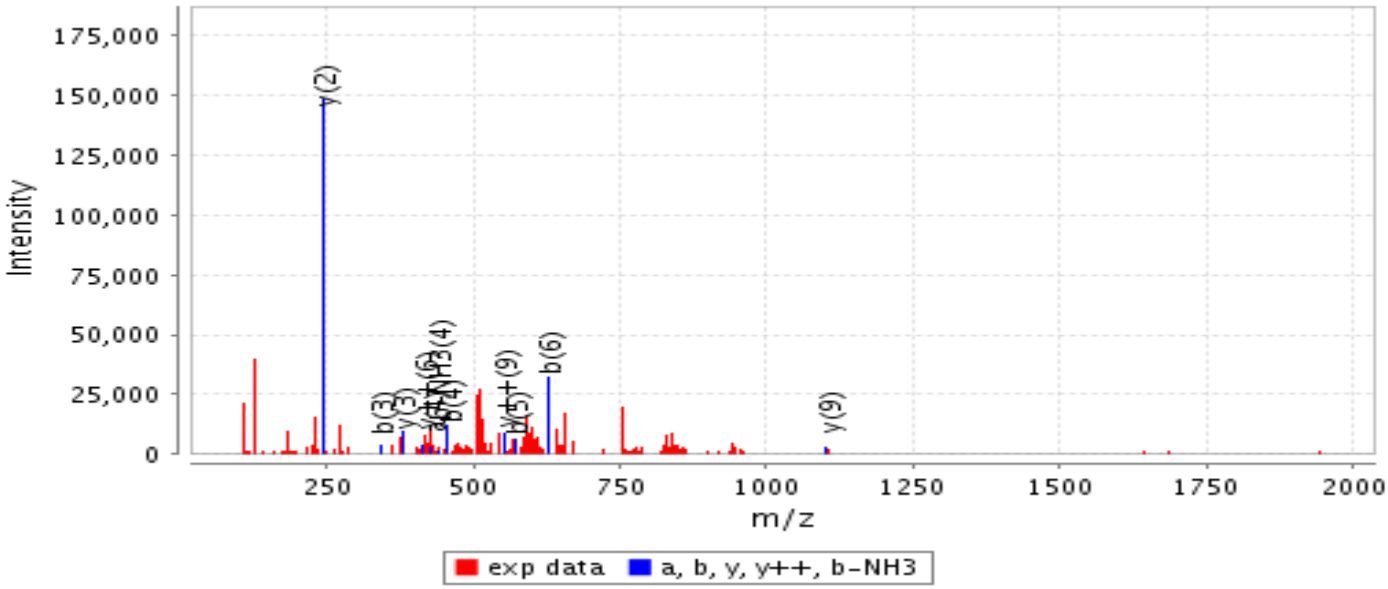
Serum albumin E/FKPLVEEPQNLI**K(**^{12}**Glu**$_6$**)**QNCE/L [M+3H]$^{3+}$ 750.04 m/z



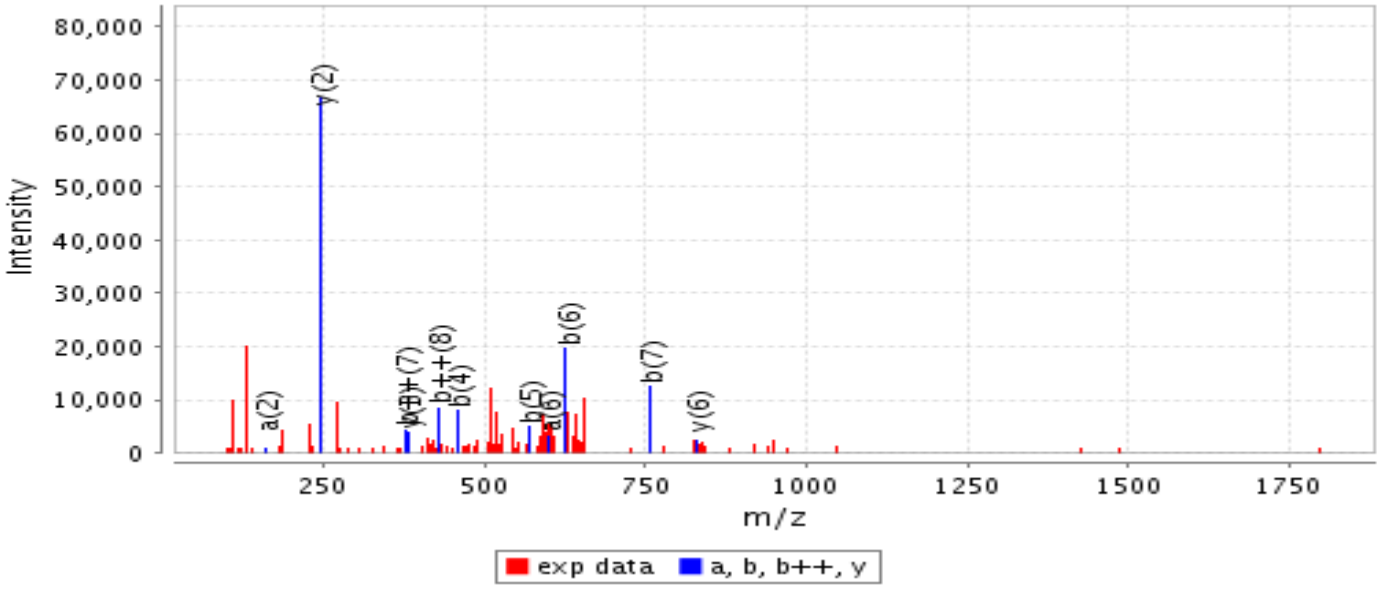
Serum albumin Q/NALLVRYTK**K(^{13}Glu$_6$)**VPQVSTPTLVE/V [M+2H]$^{2+}$ 1262.72 m/z



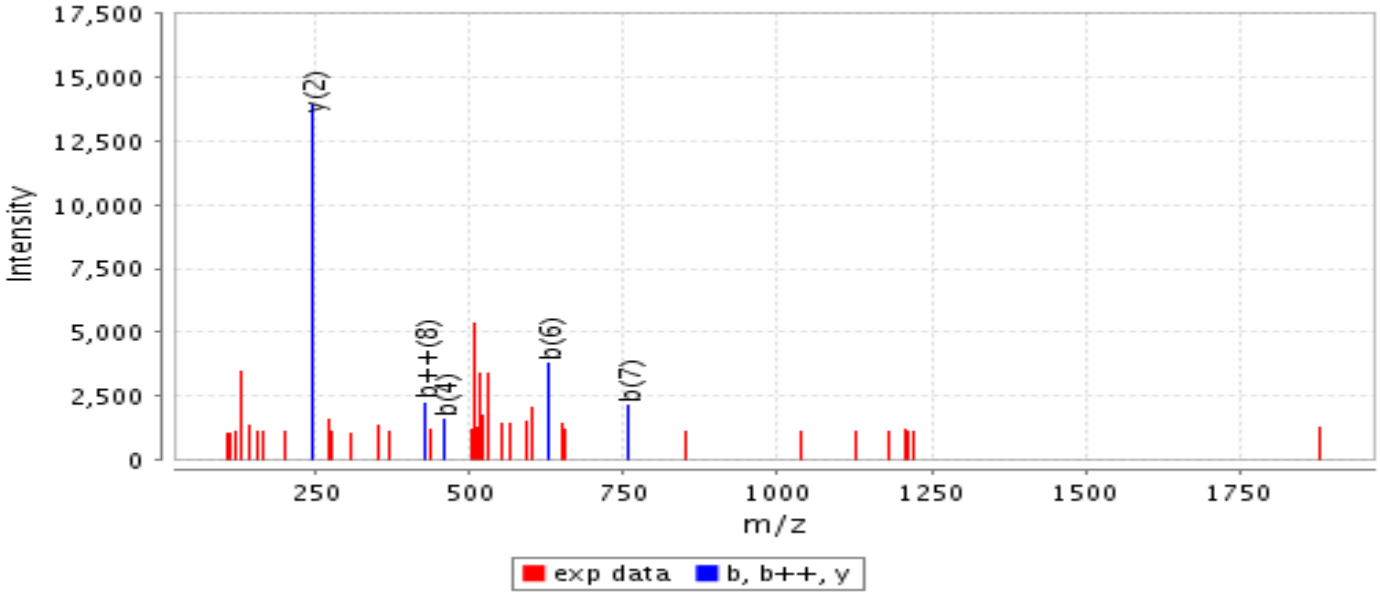
Serum albumin E/VSRNLG**K(^{12}Glu$_6$)**VGSKCCKHPE/A [M+4H]$^{4+}$ 530.26 m/z



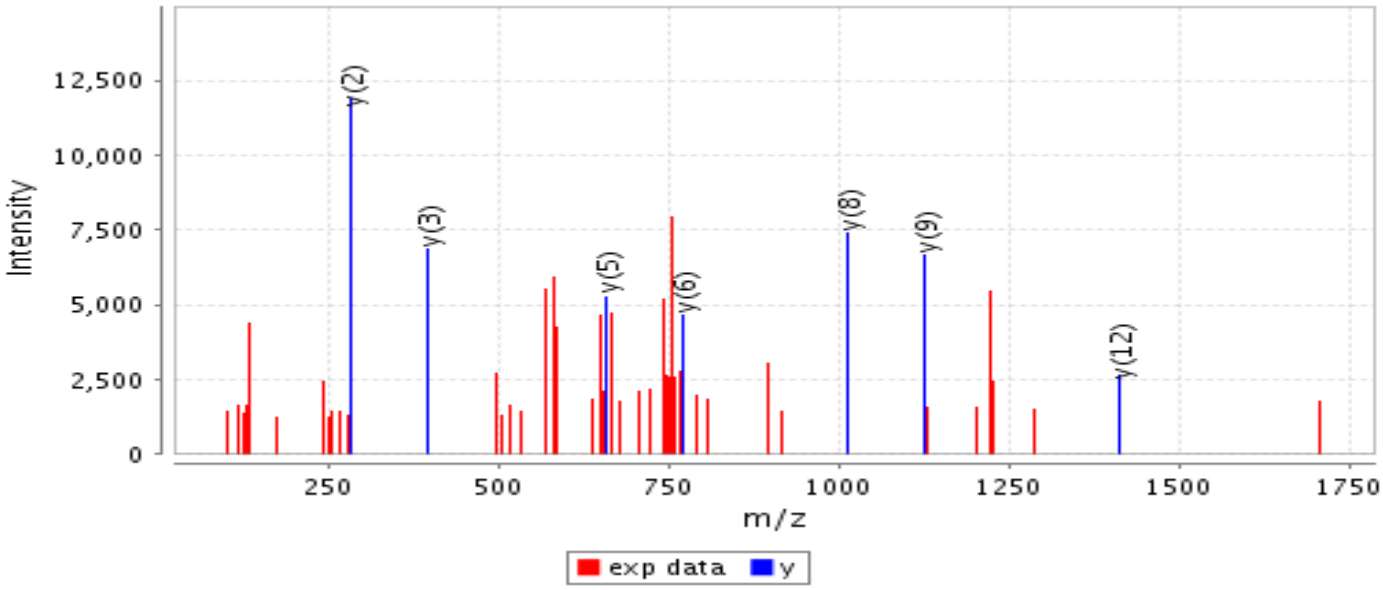
Serum albumin E/VSRNLGKVGS**K(12Glu6)**CCKHPE/A [M+4H]4+ 530.26 m/z



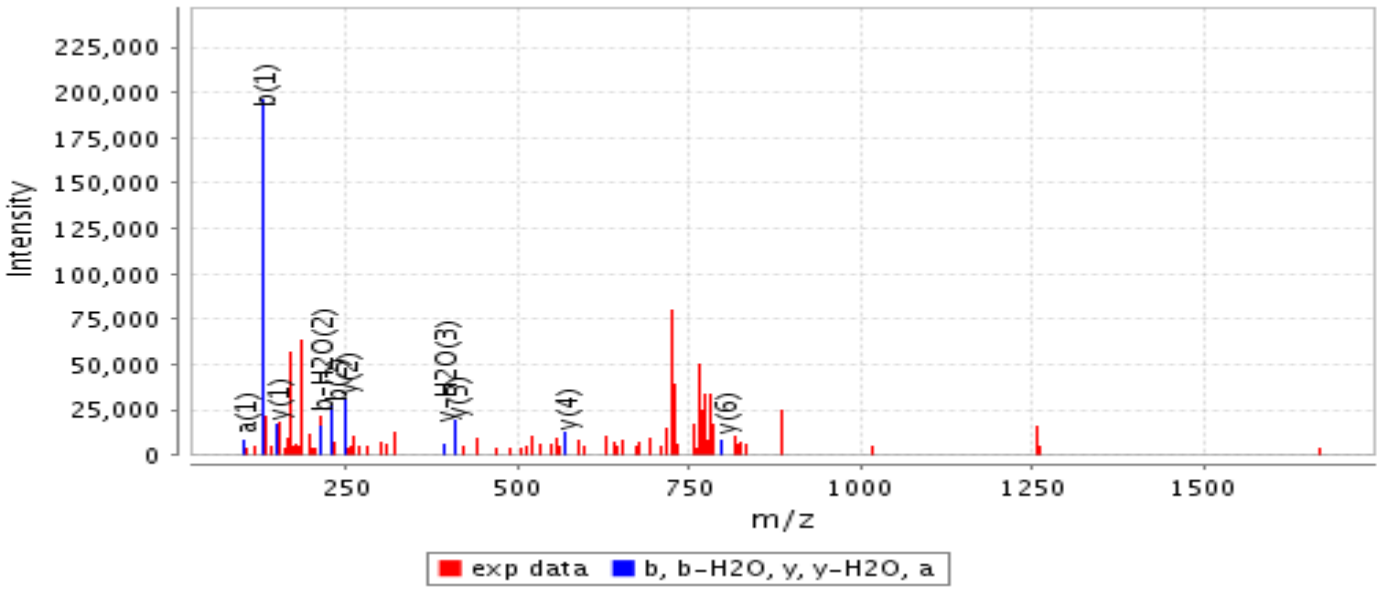
Serum albumin E/VSRNLGKVGSKCC**K(12Glu6)**HPE/A [M+4H]4+ 530.26 m/z



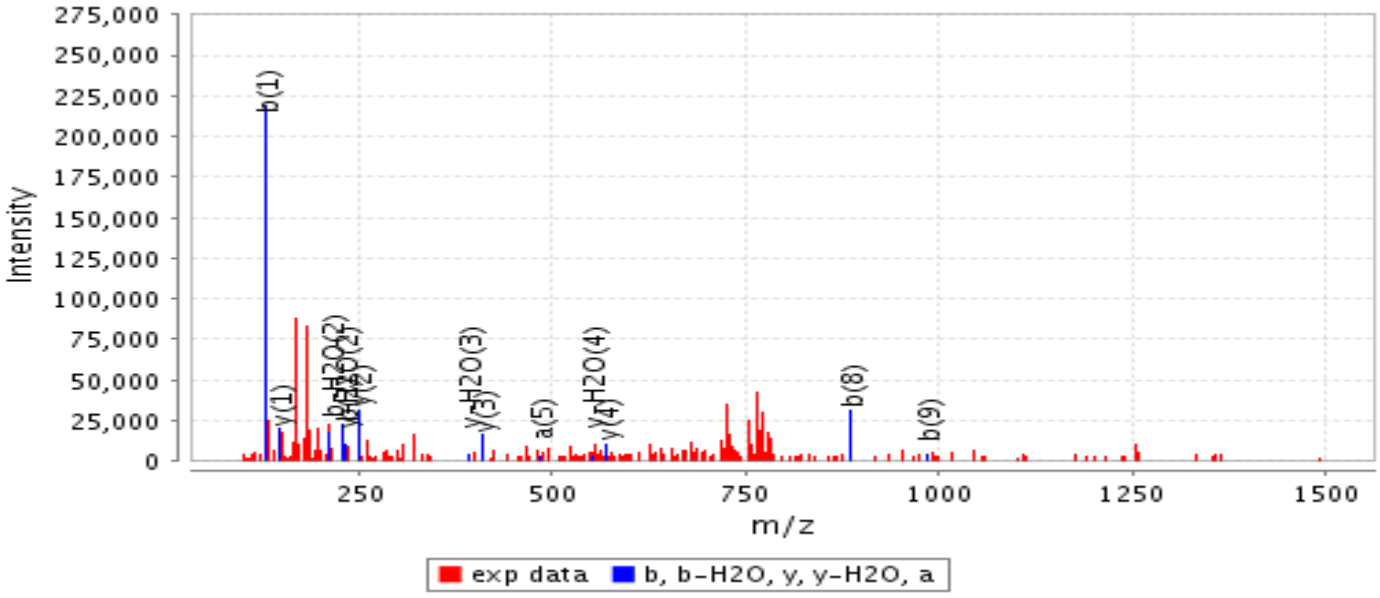
Serum albumin H/PEA**K(^{12}Glu$_6$)**RMPCAEDYLSVVLNQLCVLHE/K [M+3H]$^{3+}$ 1050.94 m/z



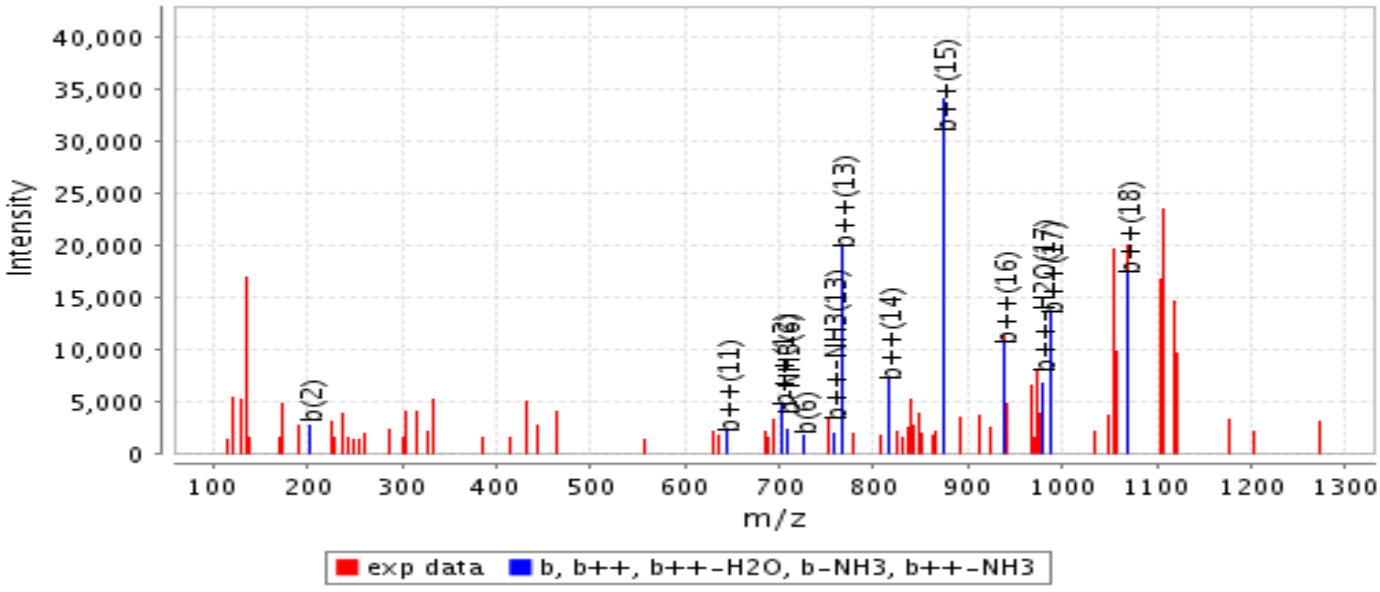
Serum albumin E/KTPVSD**R(^{13}Glu$_6$)**VTKCCTE/S [M+3H]$^{3+}$ 616.96 m/z



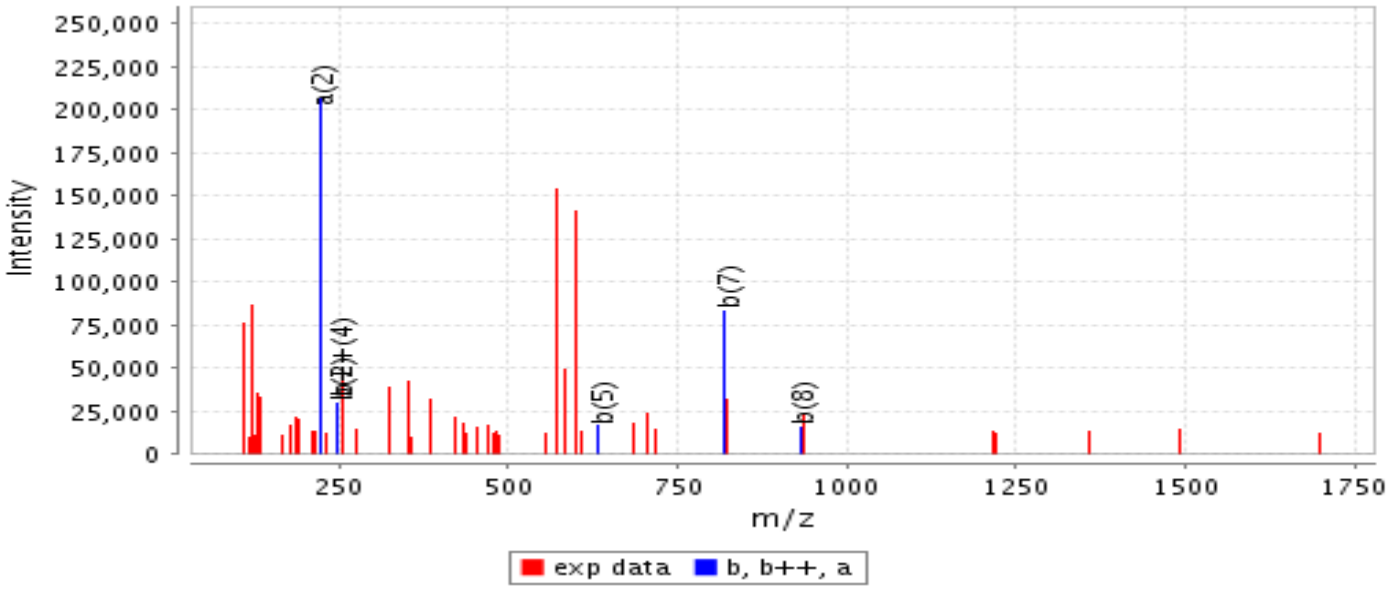
Serum albumin E/KTPVSDRVT**K(¹³Glu₆)**CCTE/S [M+3H]$^{3+}$ 616.96 m/z



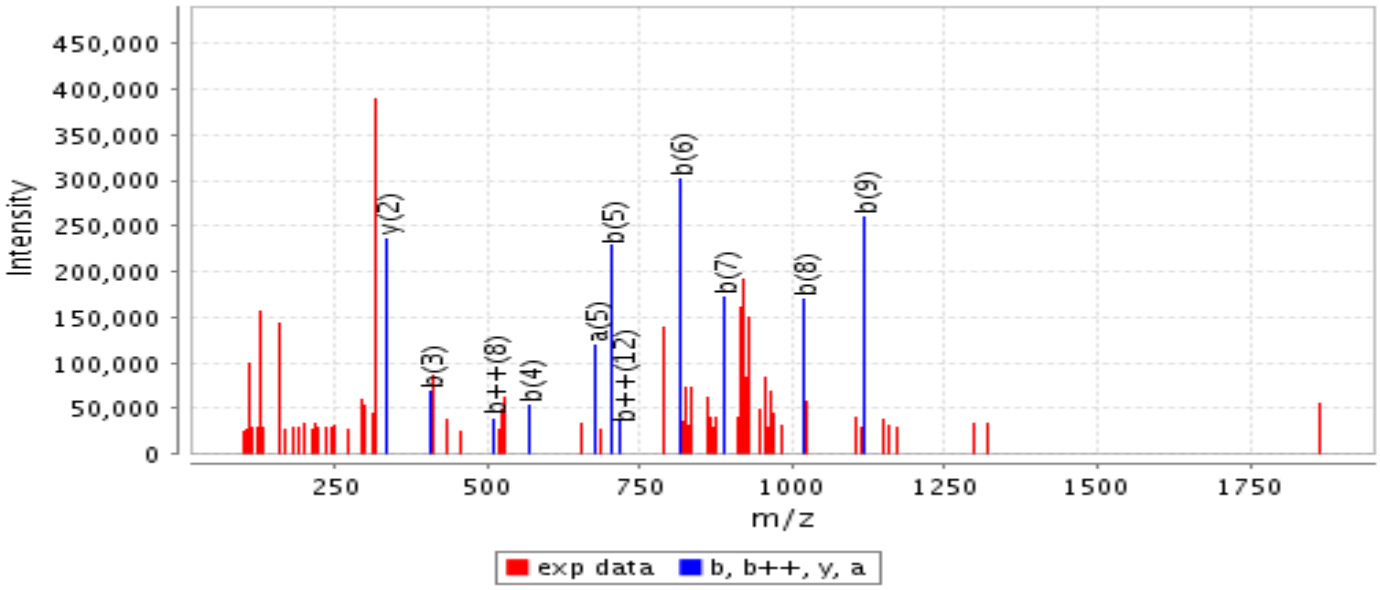
Serum albumin E/SLVNRRPCFSALEVDETYVP**K(¹²Glu₆)**EFNAE/T [M+5H]$^{5+}$ 708.99 m/z



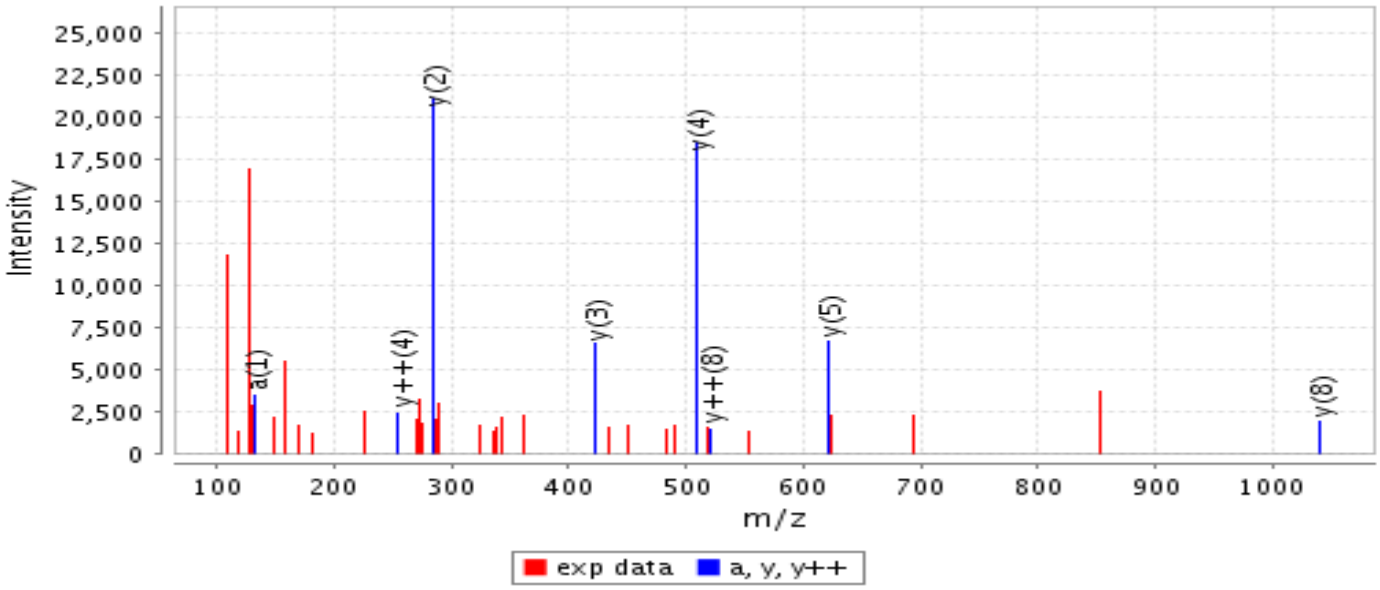
Serum albumin E/TFTFHADICTLSE**K(**^{12}**Glu**$_6$**)**E/R $[M+3H]^{3+}$ 654.30 m/z



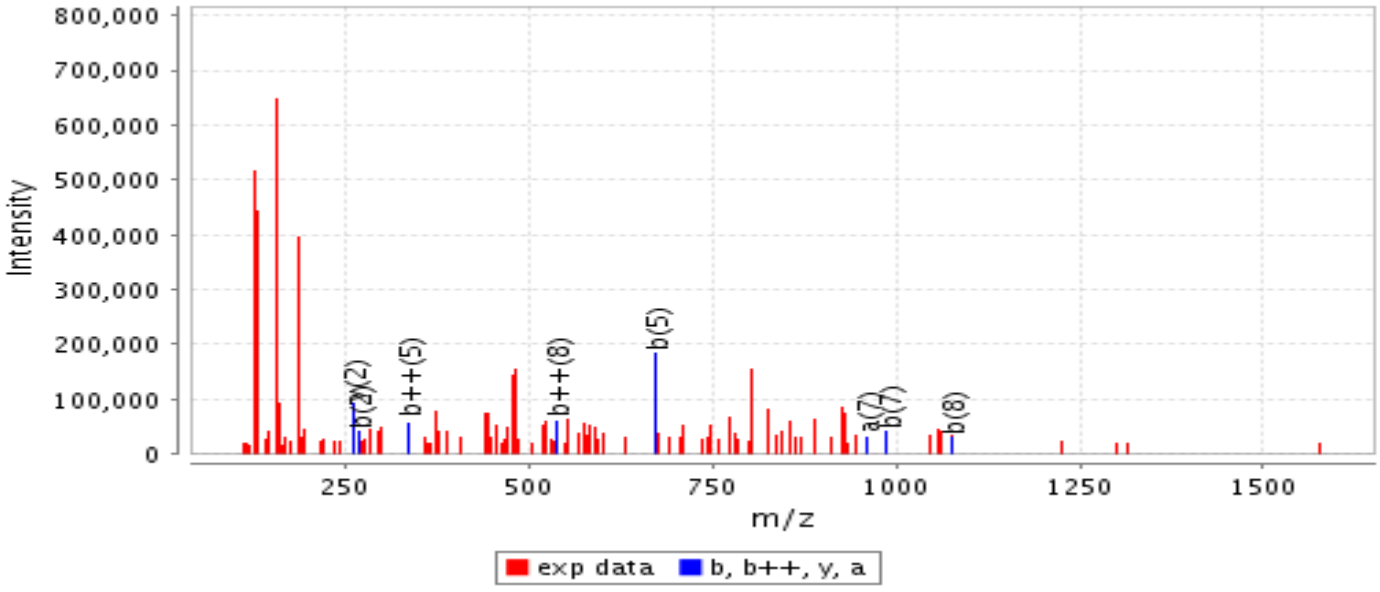
Serotransferrin E/YKDCHLAQVPSHTVVARSMGG**K(^{13}Glu$_6$)**EDLIWE/L [M+3H]$^{3+}$ 1132.22 m/z



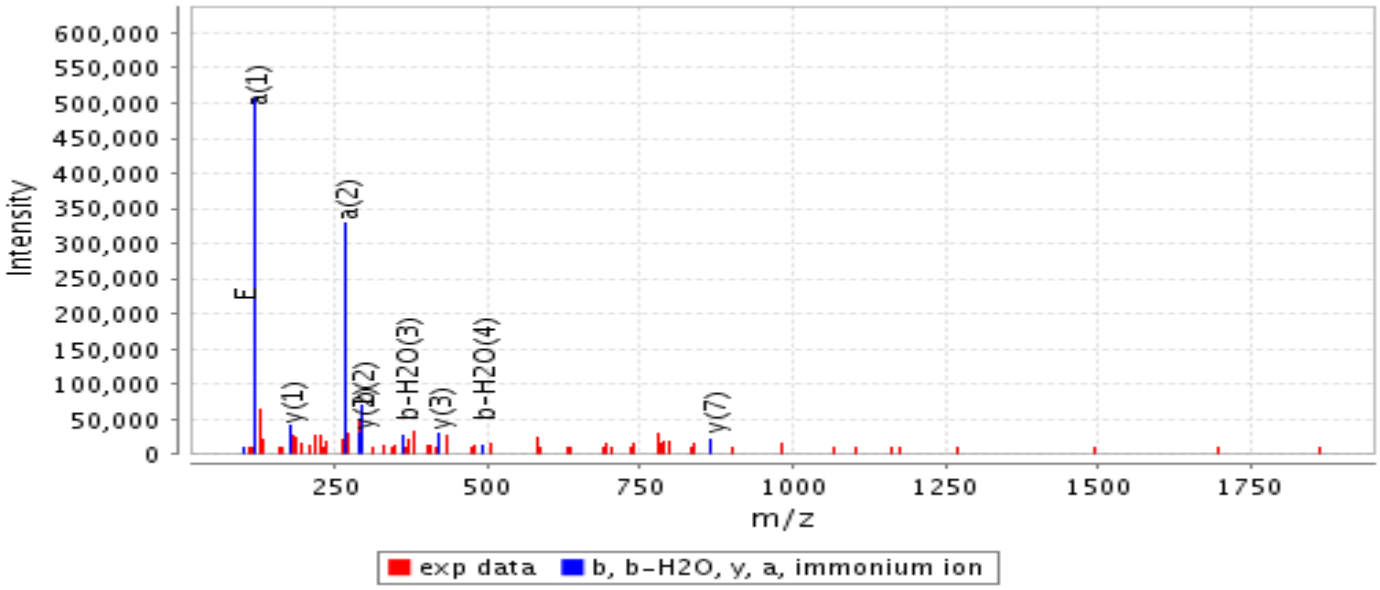
Serotransferrin E/C**K(^{13}Glu$_6$)**PVKWCALSHHE/R [M+4H]$^{4+}$ 455.72 m/z



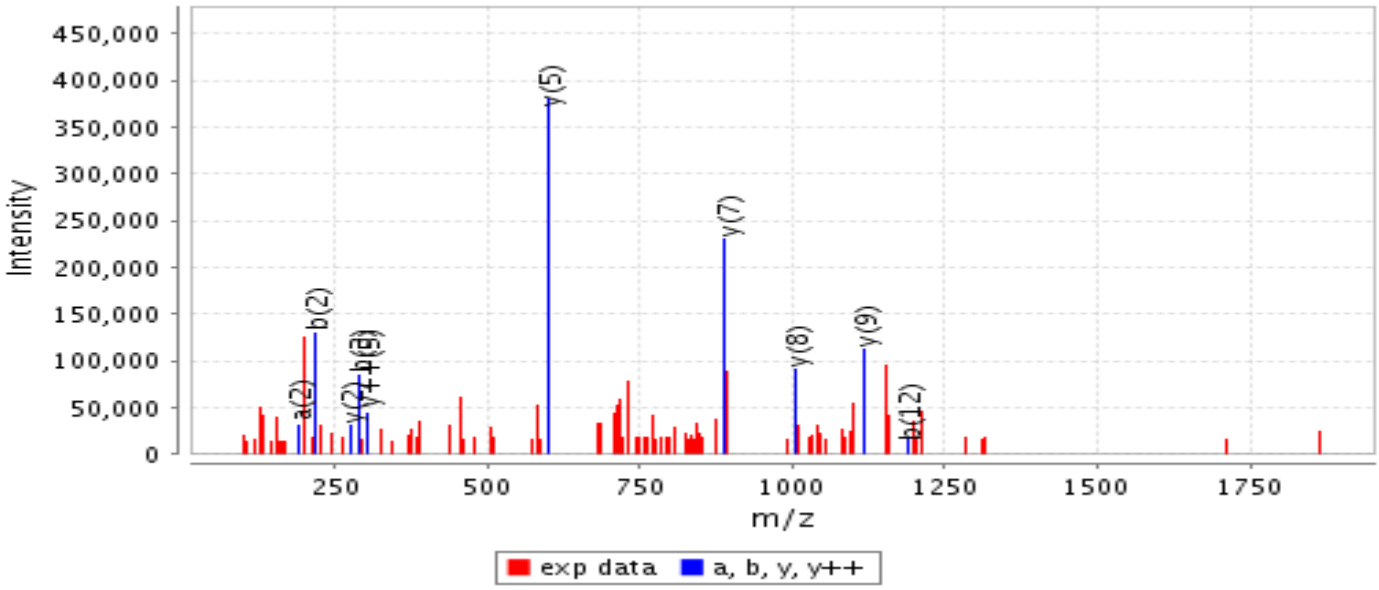
Serotransferrin E/RLKCDEWSVNSVG**K(¹²Glu₆)**IE/C [M+3H]$^{3+}$ 814.03 m/z



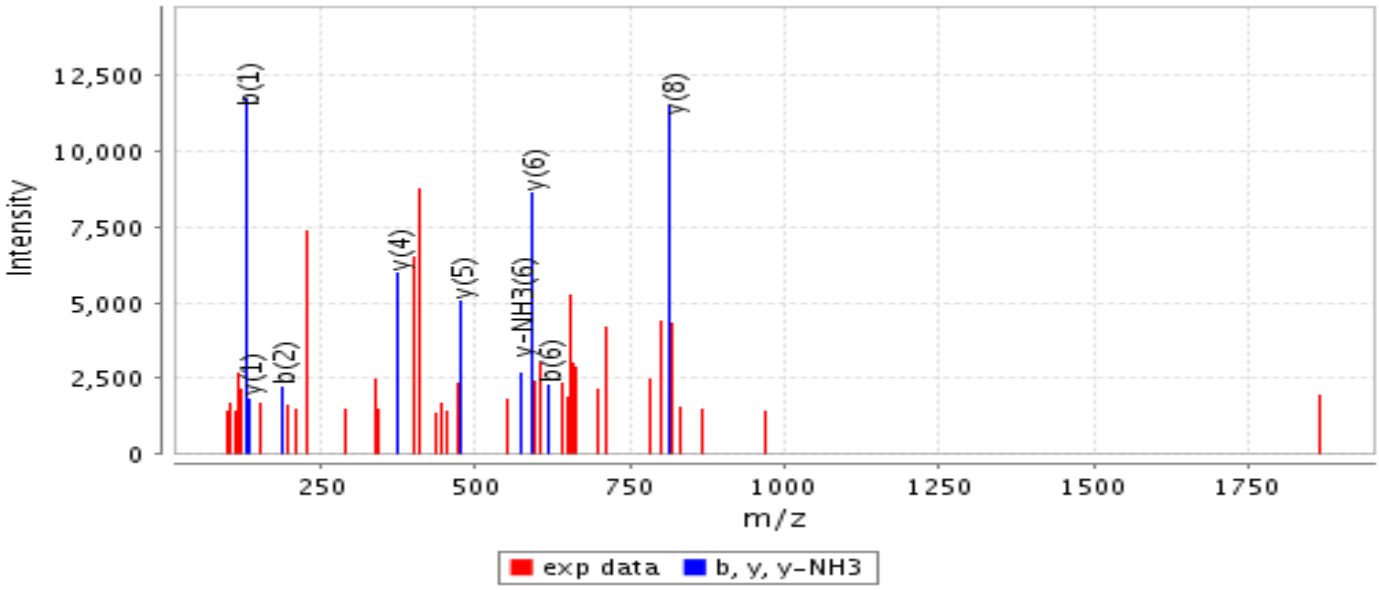
Serotransferrin E/FFSEGCAPGS**K(¹³Glu₆)**KDSSLCKLC/M [M+3H]$^{3+}$ 816.04 m/z



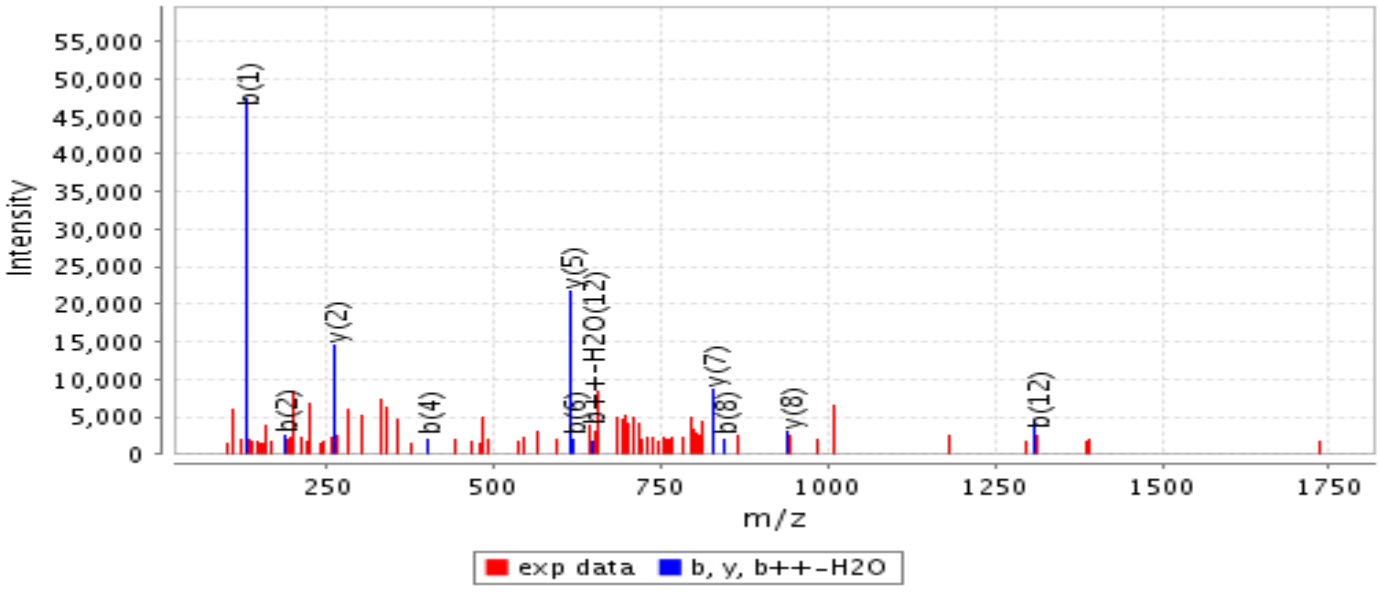
Serotransferrin E/GCAPGSKKDSSLC**K(^{13}Glu$_6$)**LCMGSGLNLCEPNNKE/G [M+4H]$^{4+}$ 870.65 m/z



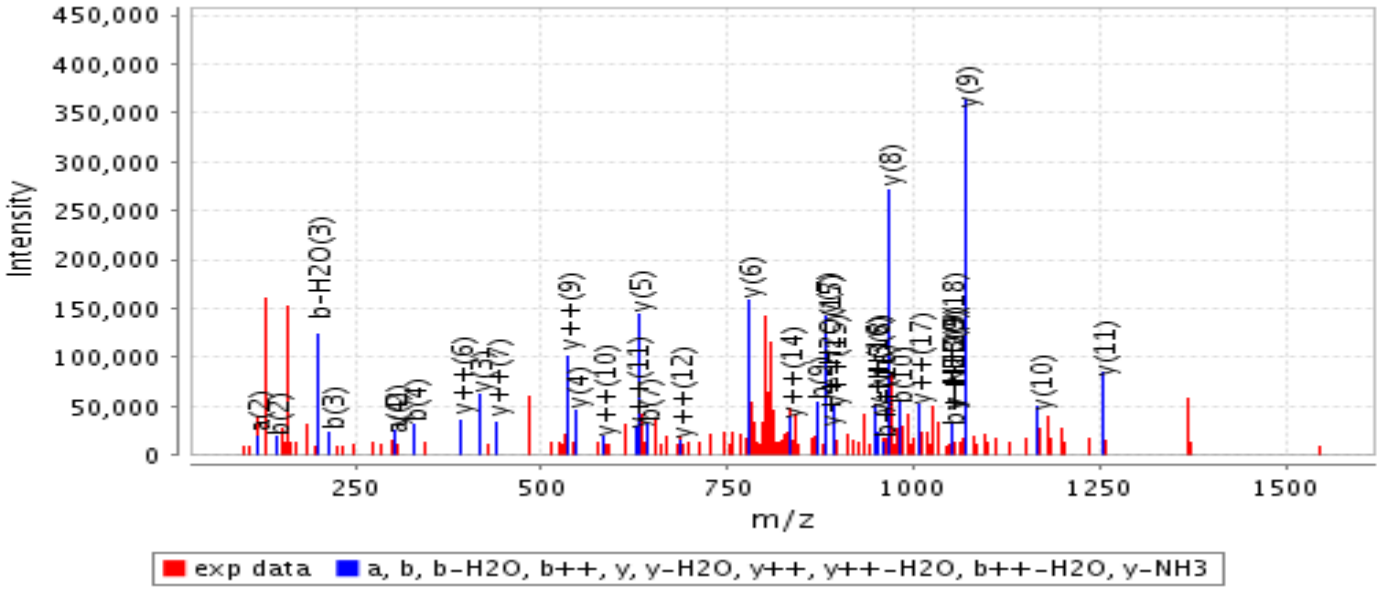
Serotransferrin E/KGDVAFV**K(^{13}Glu$_6$)**HQTVPQNTGGKN/P [M+4H]$^{4+}$ 574.05 m/z



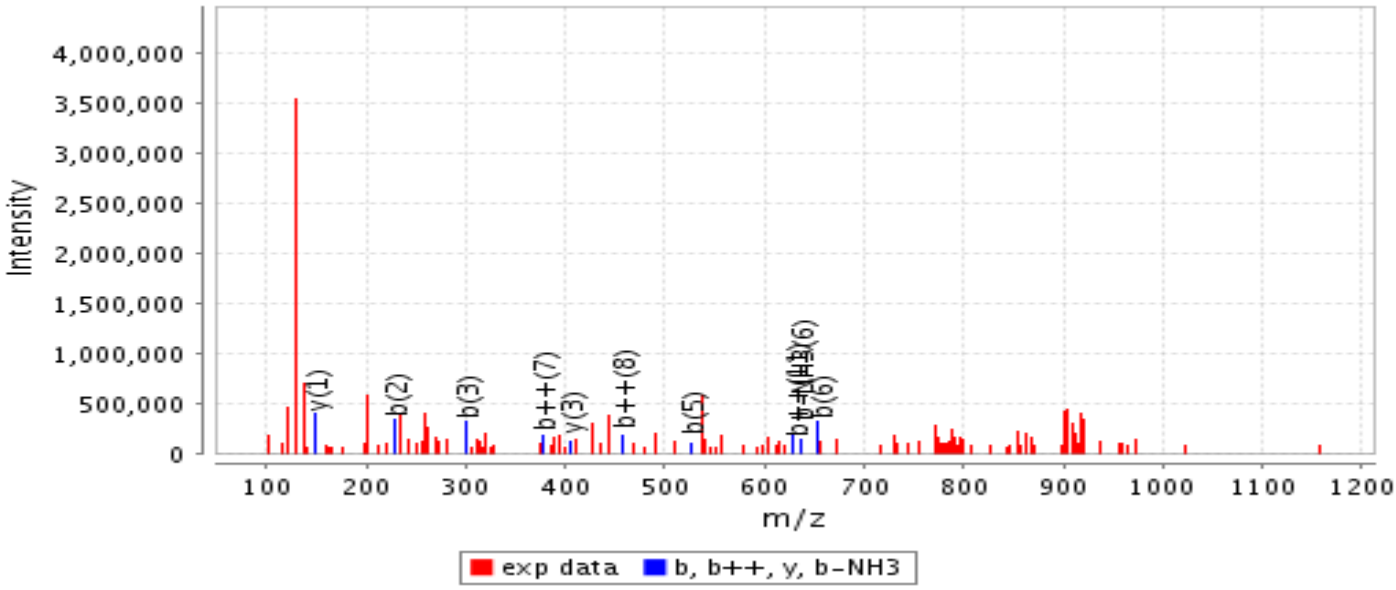
Serotransferrin E/KGDVAFVKHQTVPQNTGG**K(¹²Glu$_6$)**NPDPWAKN/L [M+4H]$^{4+}$ 774.64 m/z



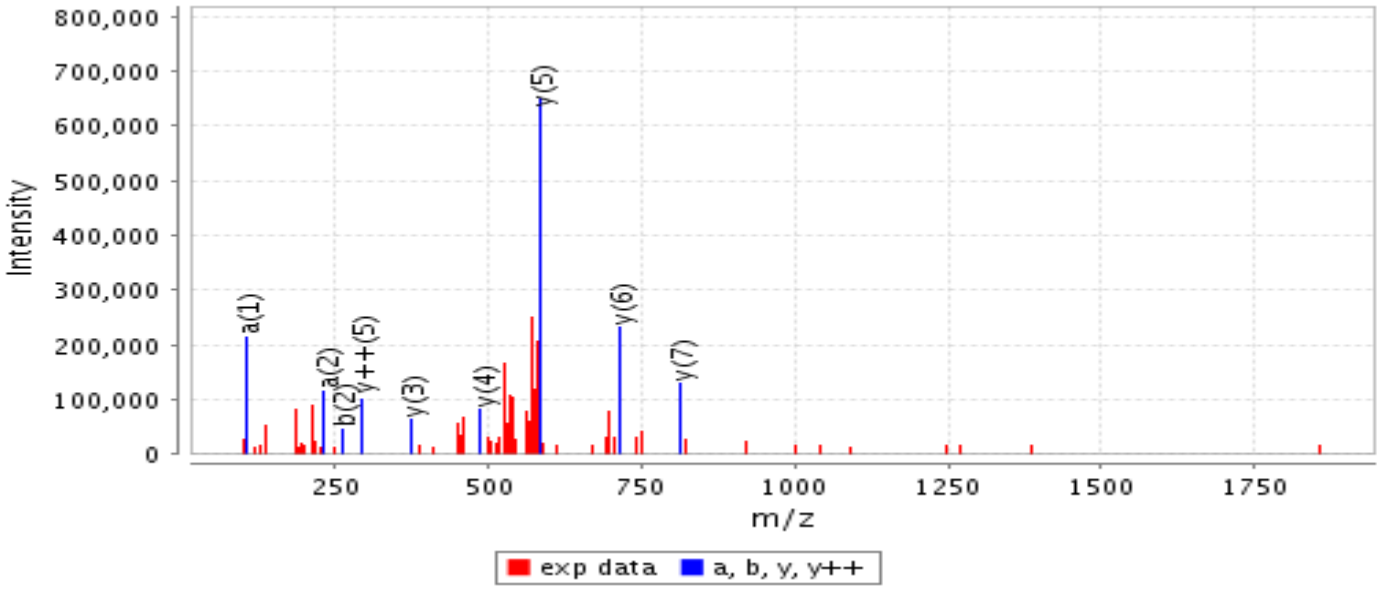
Apolipoprotein A-I E/GSALGKQLNL**K(¹³Glu$_6$)**LLDNWDSVTSTFSKLRE/Q [M+4H]$^{4+}$ 822.94 m/z



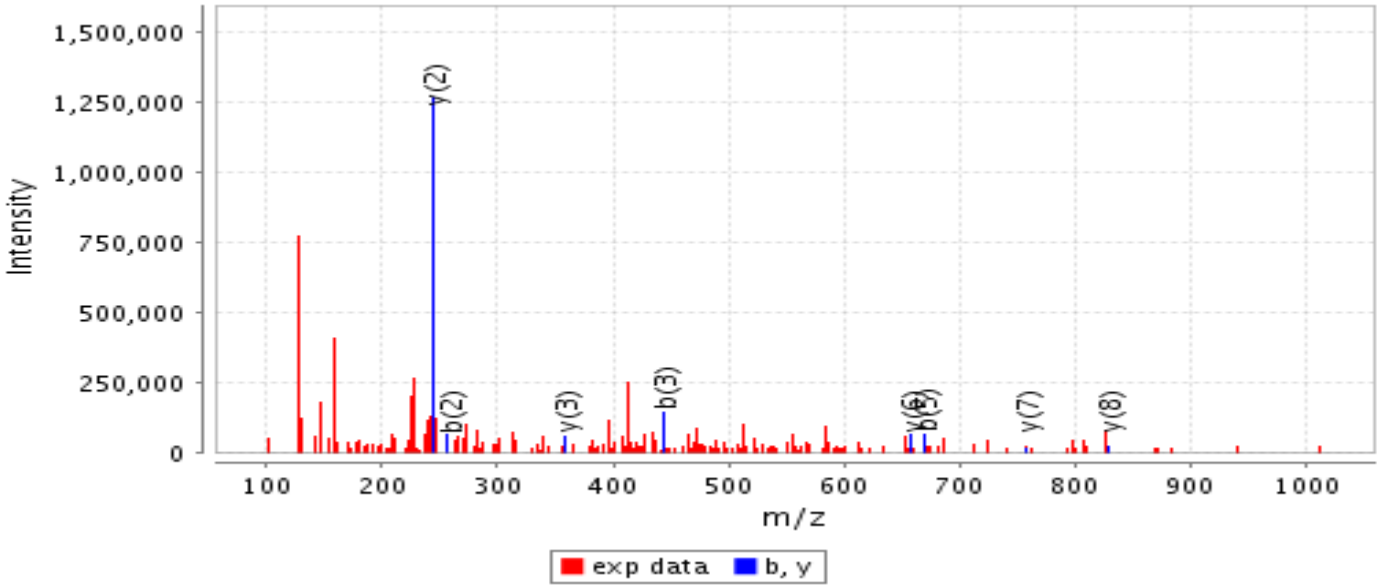
Apolipoprotein A-I E/VKAKVQPYLDDFQ**K(**^{13}**Glu**$_6$**)**KWQEE/M $[M+4H]^{4+}$ 637.58 m/z



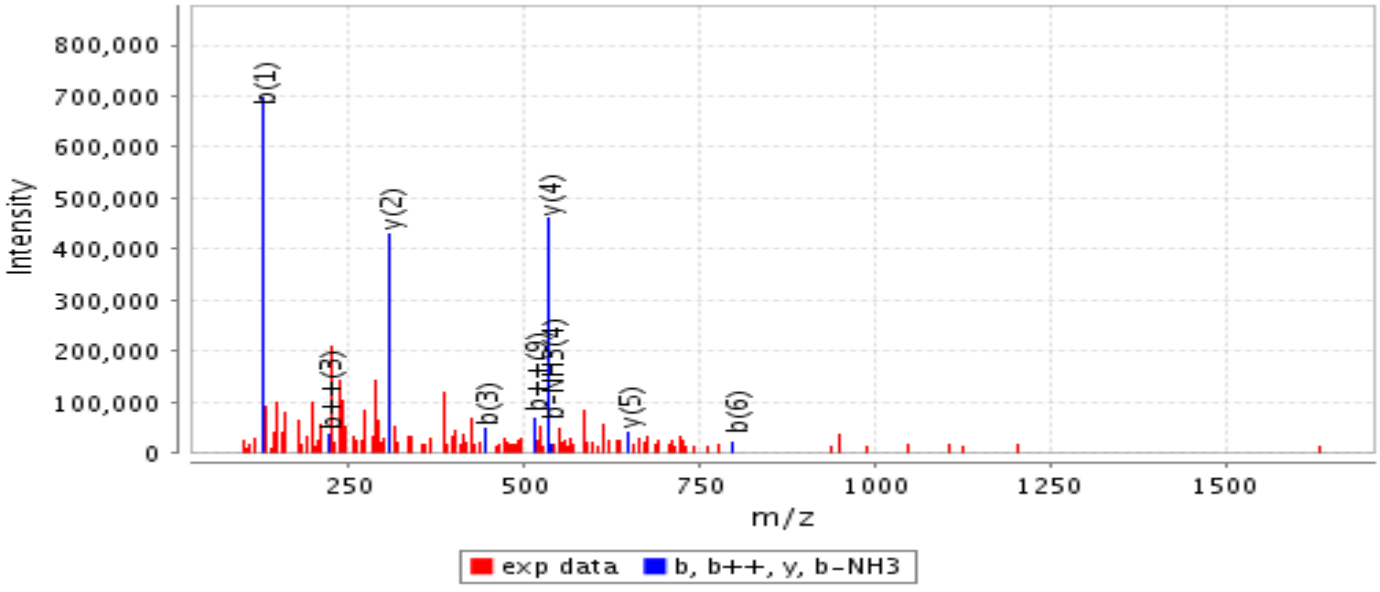
Apolipoprotein A-I E/MELY**R**^{13}**Glu**$_6$**)**QKVEPLRAE/L $[M+4H]^{4+}$ 483.26 m/z



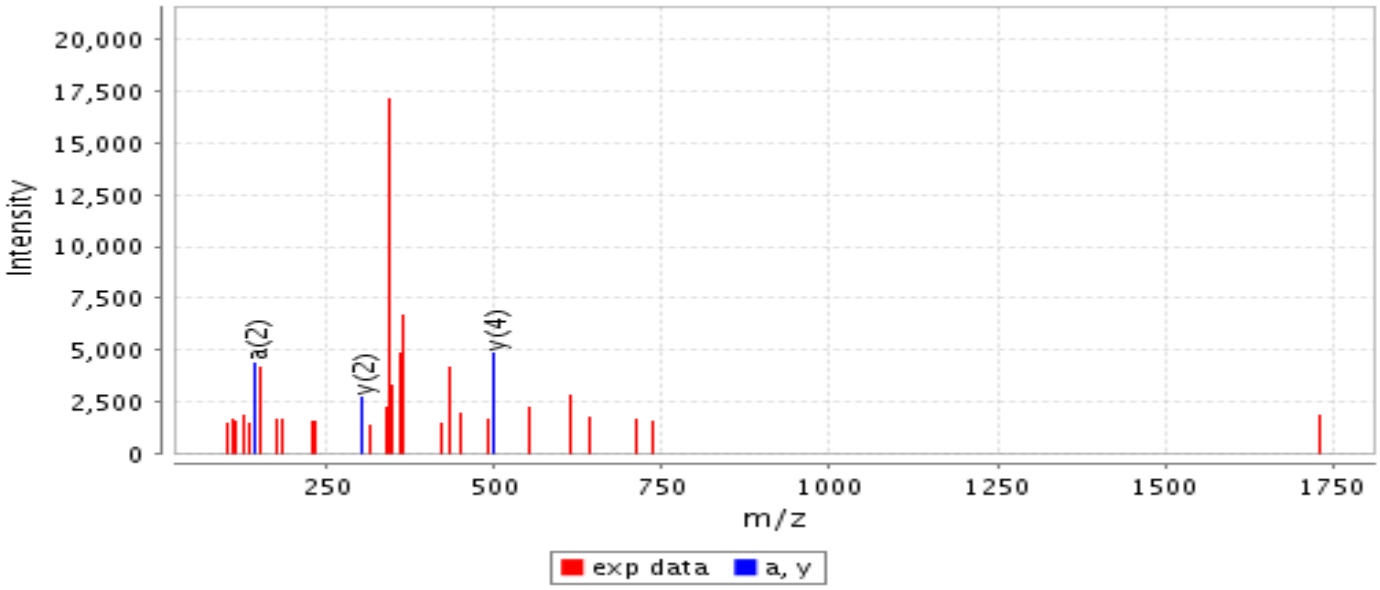
Haptoglobin β chain K/KQWIN**K(**^{12}**Glu**$_6$**)**AVGDKLPE/C [M+4H]$^{4+}$ 447.74 m/z



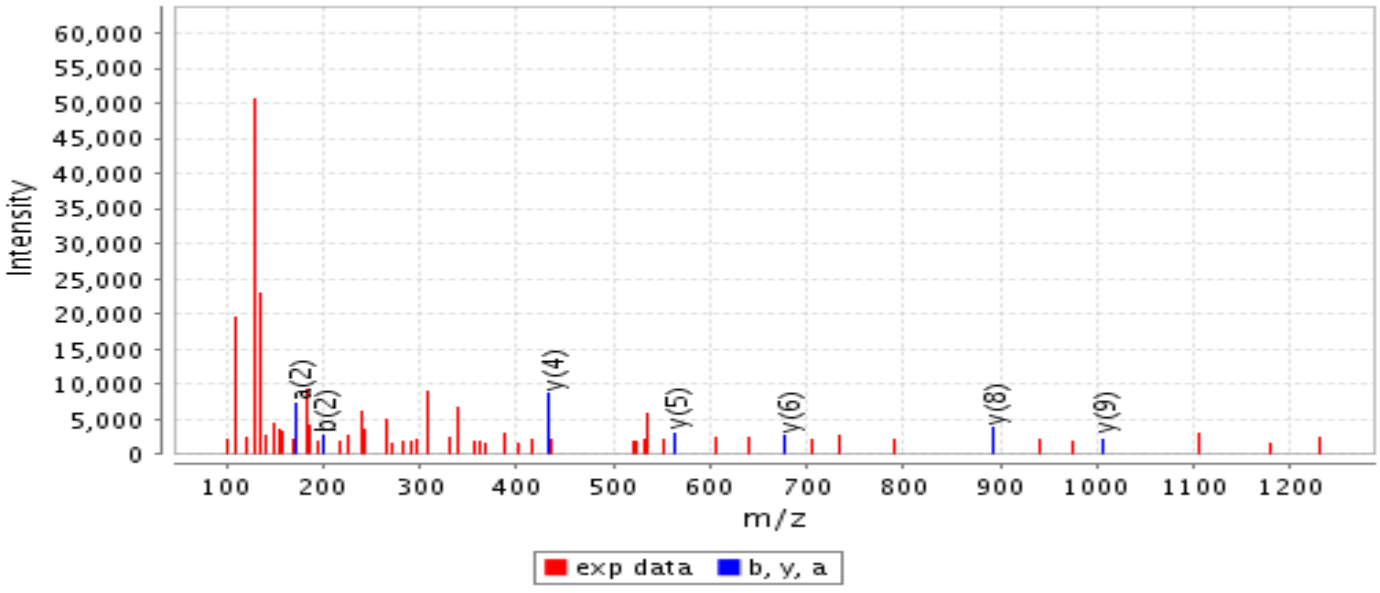
Haptoglobin β chain E/KQWINKAVGD**K(**^{12}**Glu**$_6$**)**LPECE/A [M+3H]$^{3+}$ 693.01 m/z



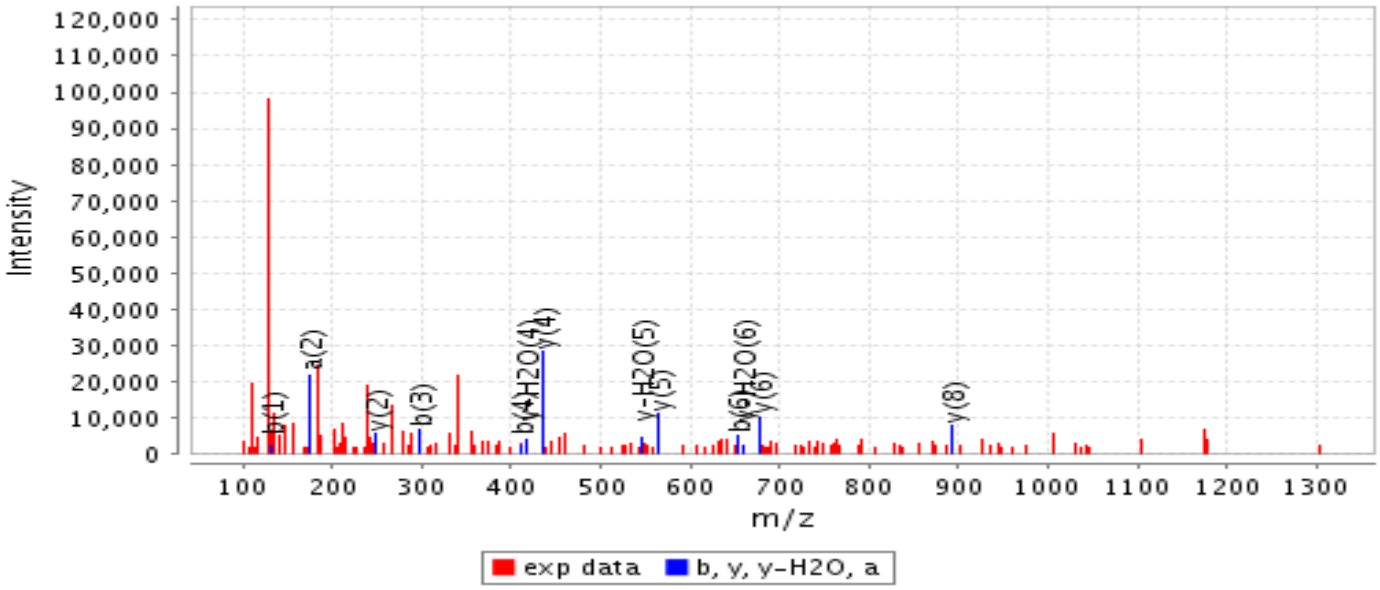
Haptoglobin β chain E/AVCG**K(^{12}Glu$_6$)**PKNPANPVQR/I [M+4H]$^{4+}$ 450.24 m/z



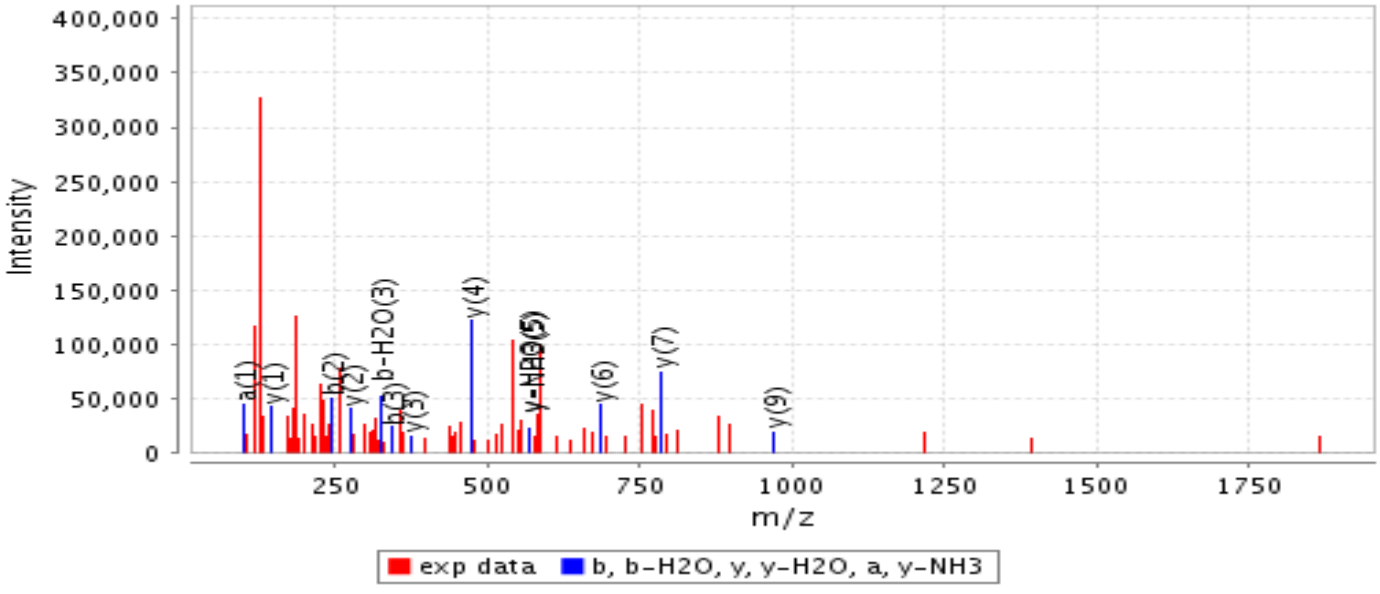
α-1-antitrypsin E/EAPL**K^{12}Glu$_6$)**LSKAVHKAVLTIDEKGTE/A [M+3H]$^{3+}$ 880.49 m/z



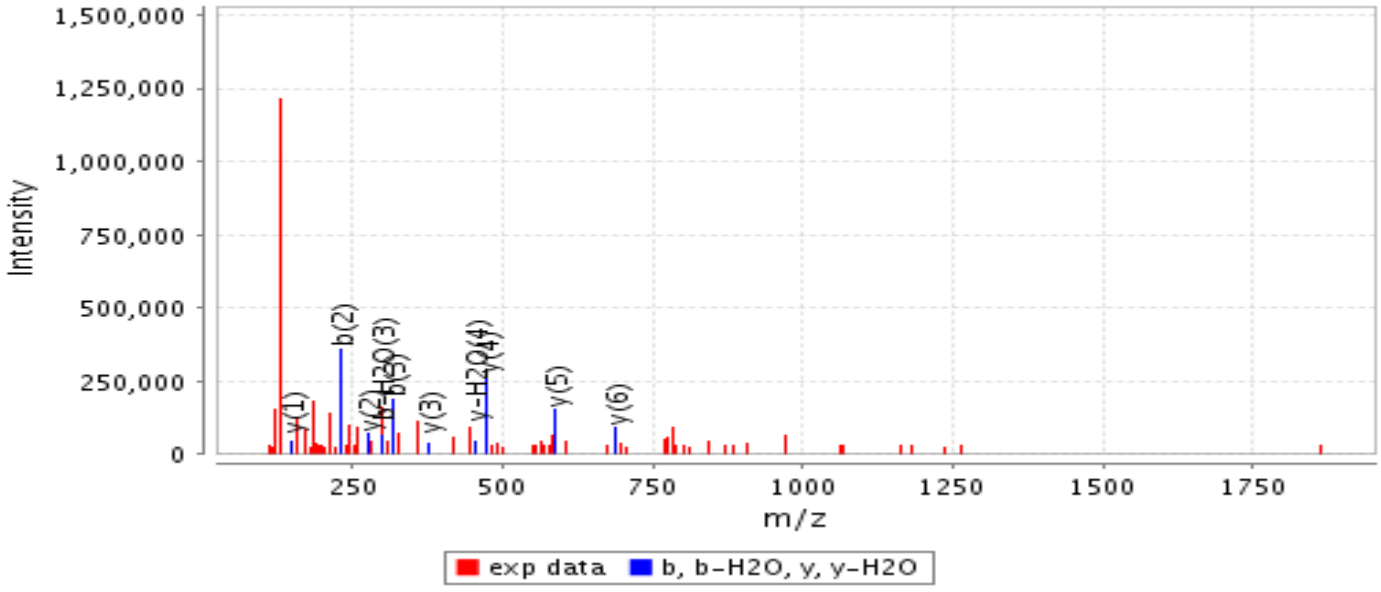
α-1-antitrypsin E/EAPLKLS**K(**^{12}**Glu**$_6$**)**AVHKAVLTIDEKGTE/A [M+3H]$^{3+}$ 880.49 m/z



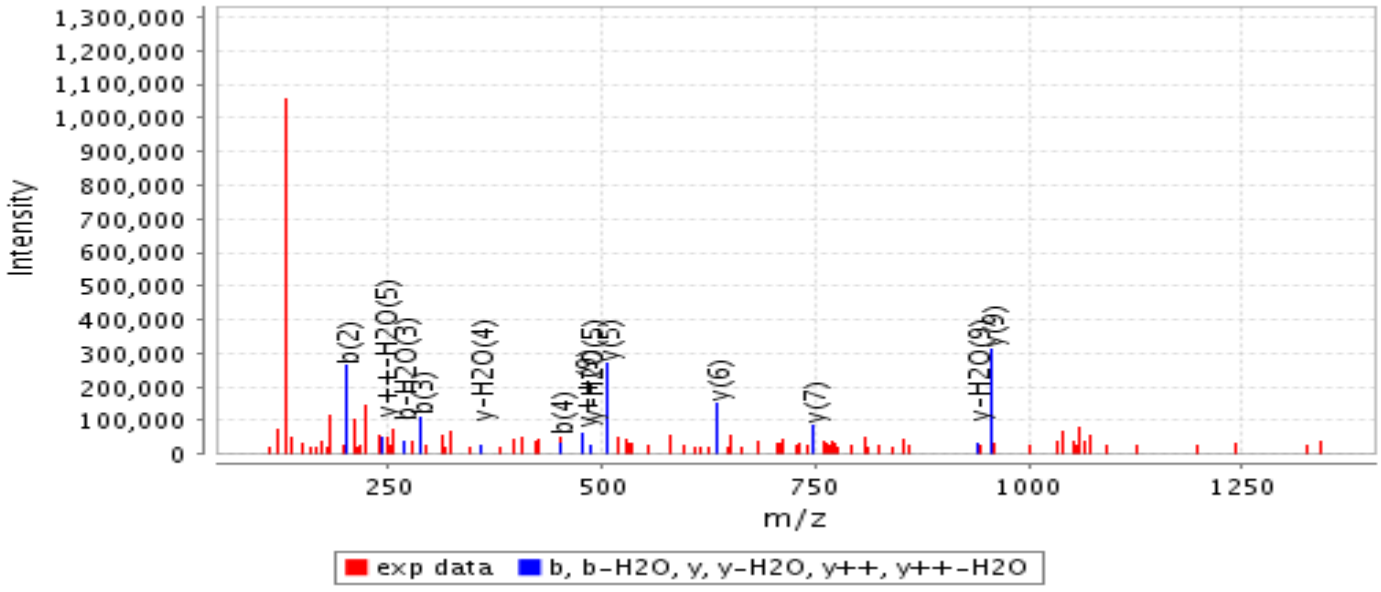
α-1-antitrypsin E/QNT**K(**^{13}**Glu**$_6$**)**SPLFMGKVVNPTQK/- [M+3H]$^{3+}$ 727.05 m/z



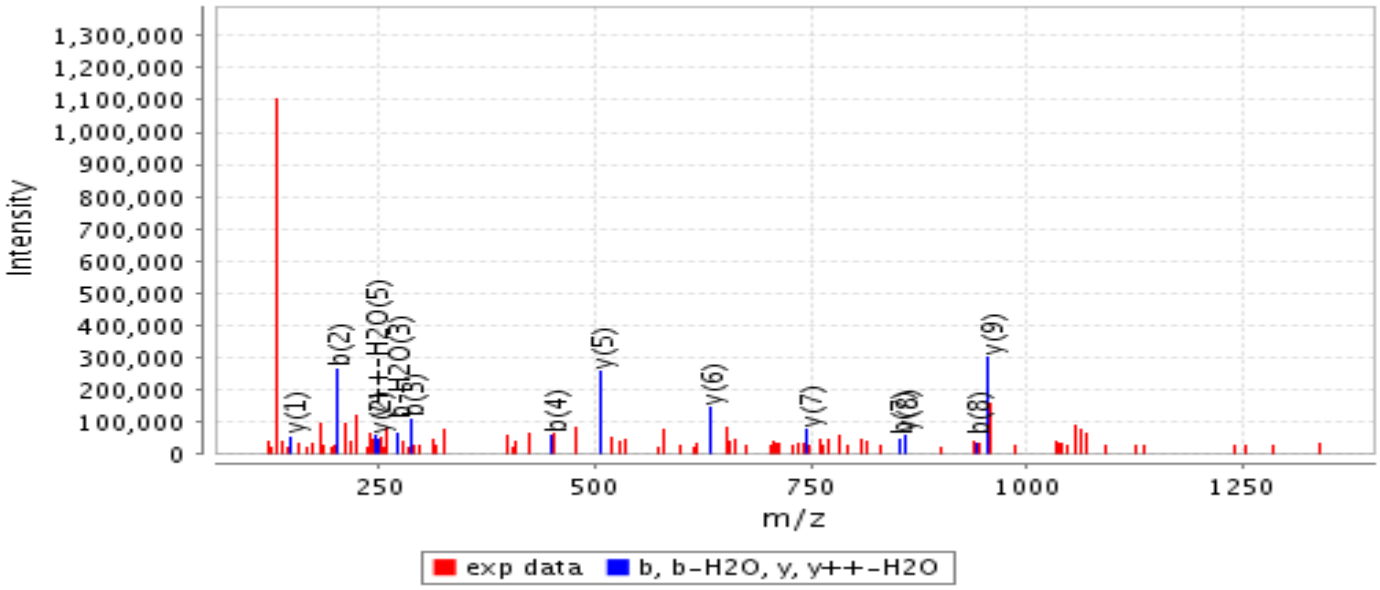
α-1-antitrypsin N/TKSPLFMG**K(**^{13}**Glu**$_6$**)**VVNPTQK/- [M+3H]$^{3+}$ 646.35 m/z



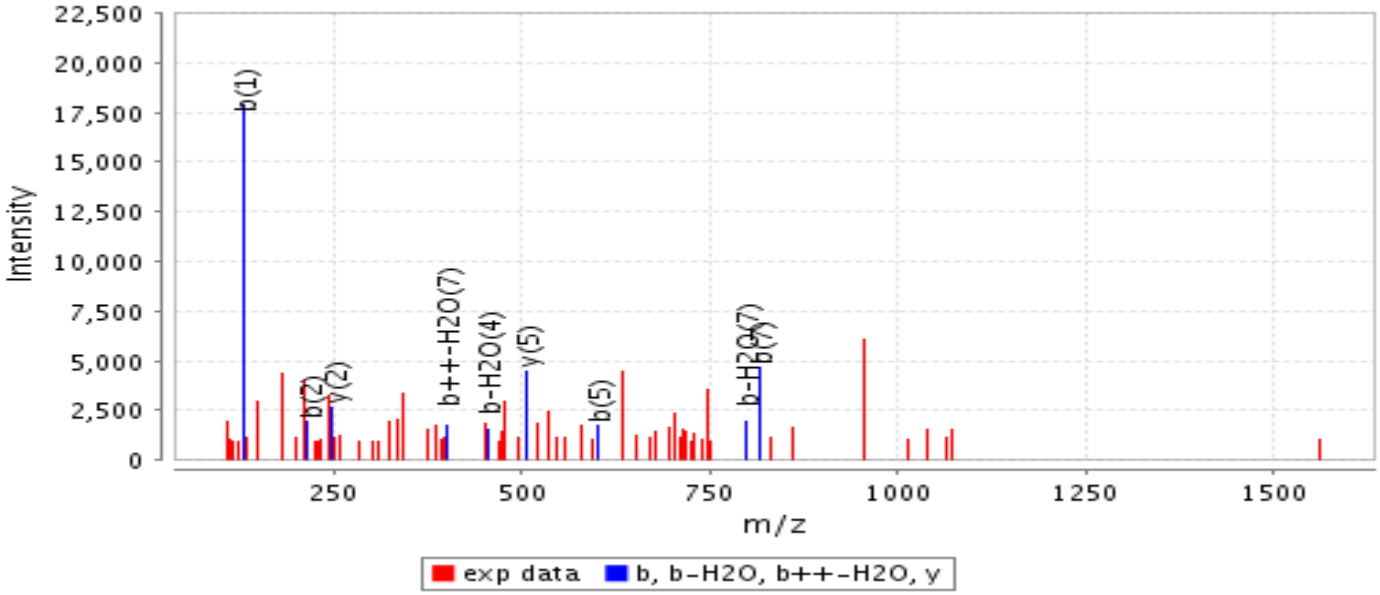
Apolipoprotein A-II E/AKSYFE**K(**^{13}**Glu**$_6$**)**SKEQLTPLIKKAGTE/L [M+3H]$^{3+}$ 886.81 m/z



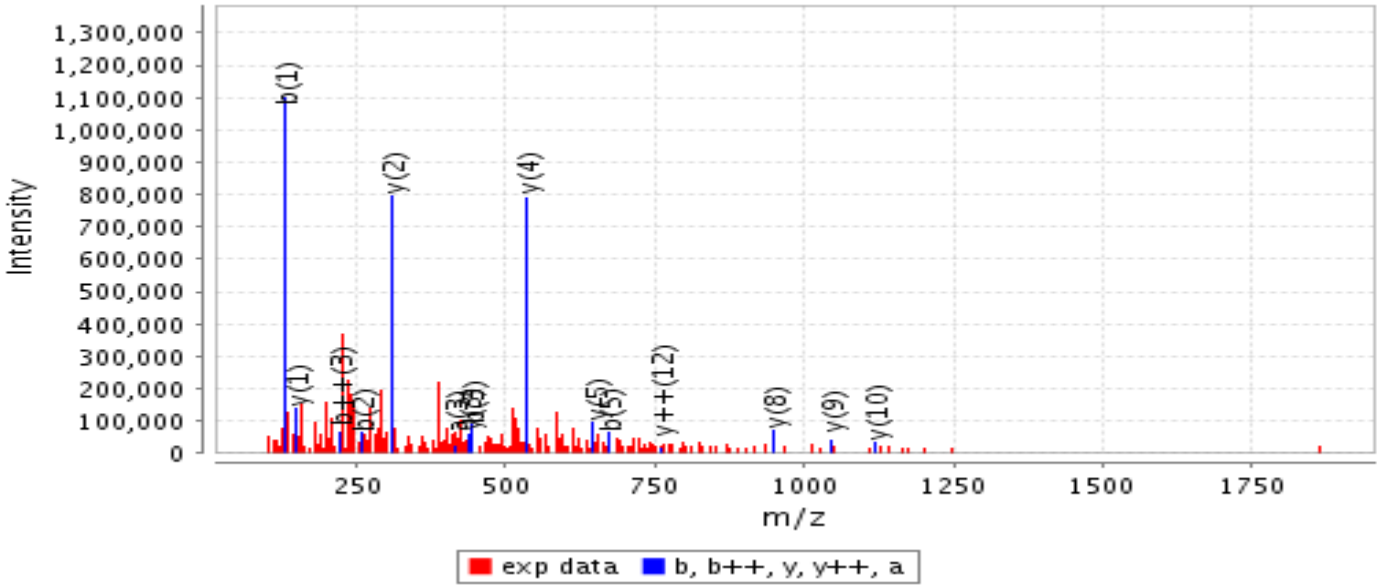
Apolipoprotein A-II E/AKSYFEKS**K(^{13}Glu$_6$)**EQLTPLIKKAGTE/L [M+3H]$^{3+}$ 886.81 m/z



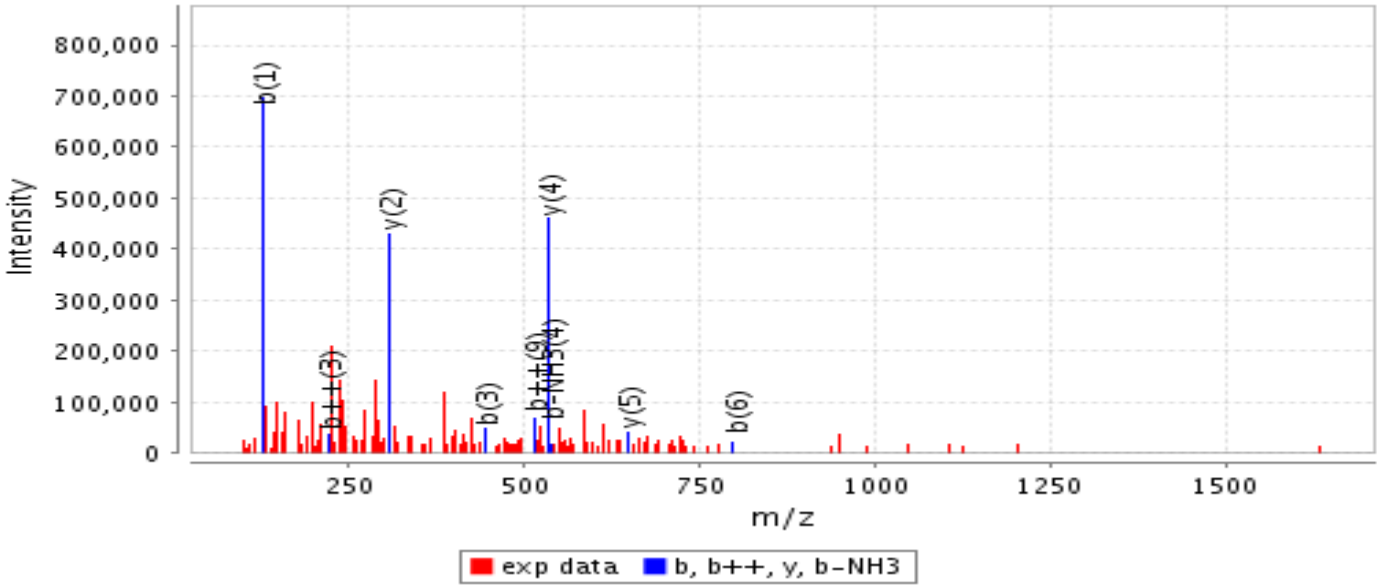
Apolipoprotein A-II E/KSKEQLTPLI**K(^{13}Glu$_6$)**KAGTE/L [M+3H]$^{3+}$ 645.03 m/z



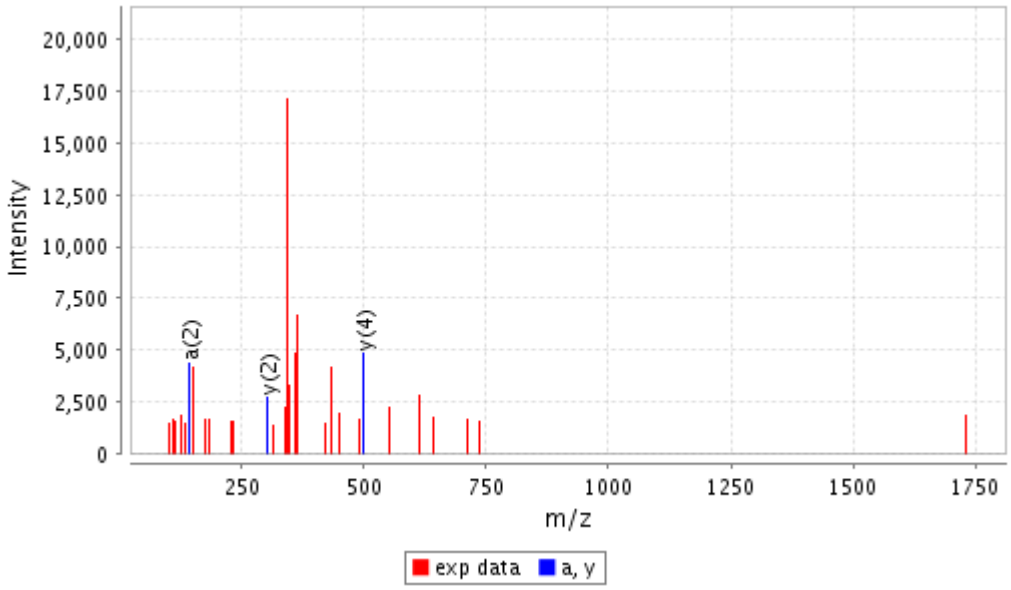
Haptoglobin-related protein KQWIN**K(12Glu6)**AVGDKLPECE [M+3H]3+ 693.01 m/z



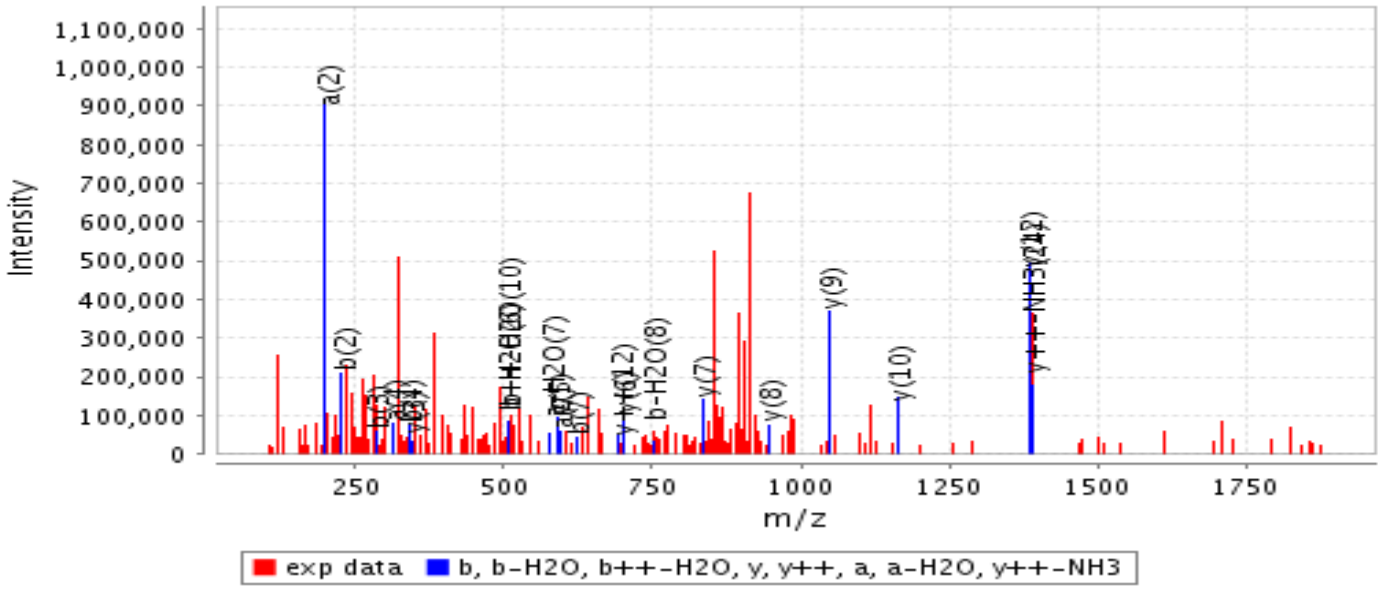
Haptoglobin-related protein KQWINKAVGD**K(12Glu6)**LPECE [M+3H]3+ 693.01 m/z



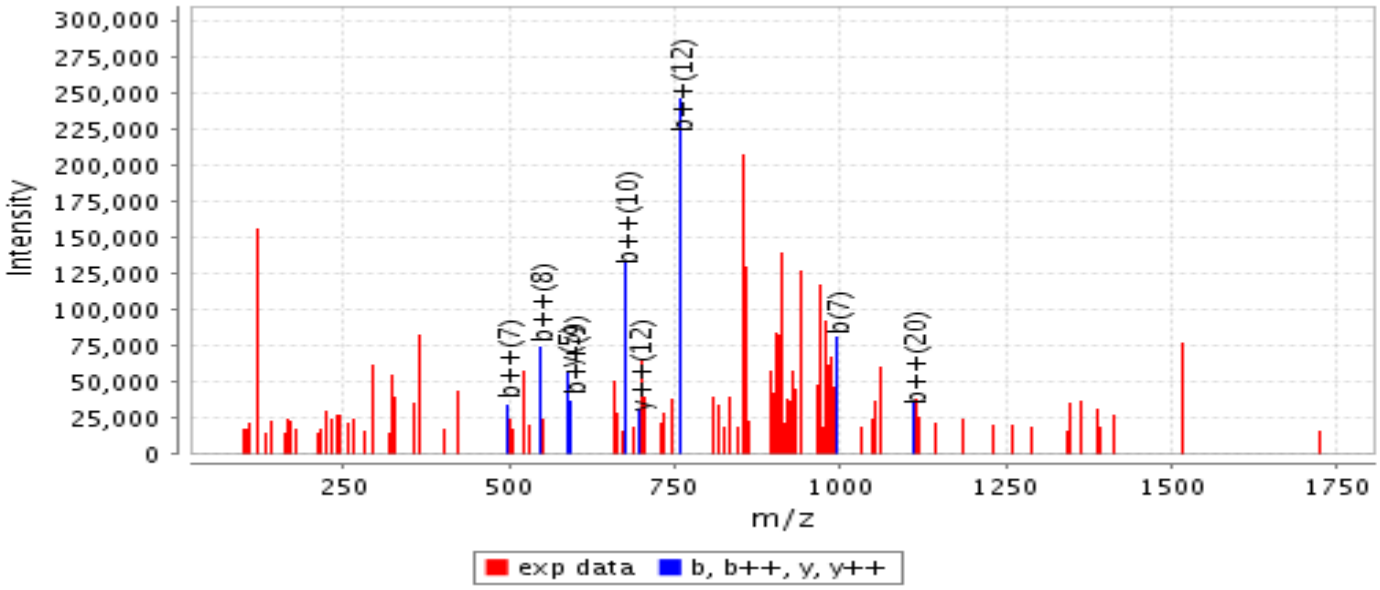
Haptoglobin-related protein AVCG**K(**^{12}**Glu**$_6$**)**PKNPANPVQR [M+4H]$^{4+}$ 450.24 m/z



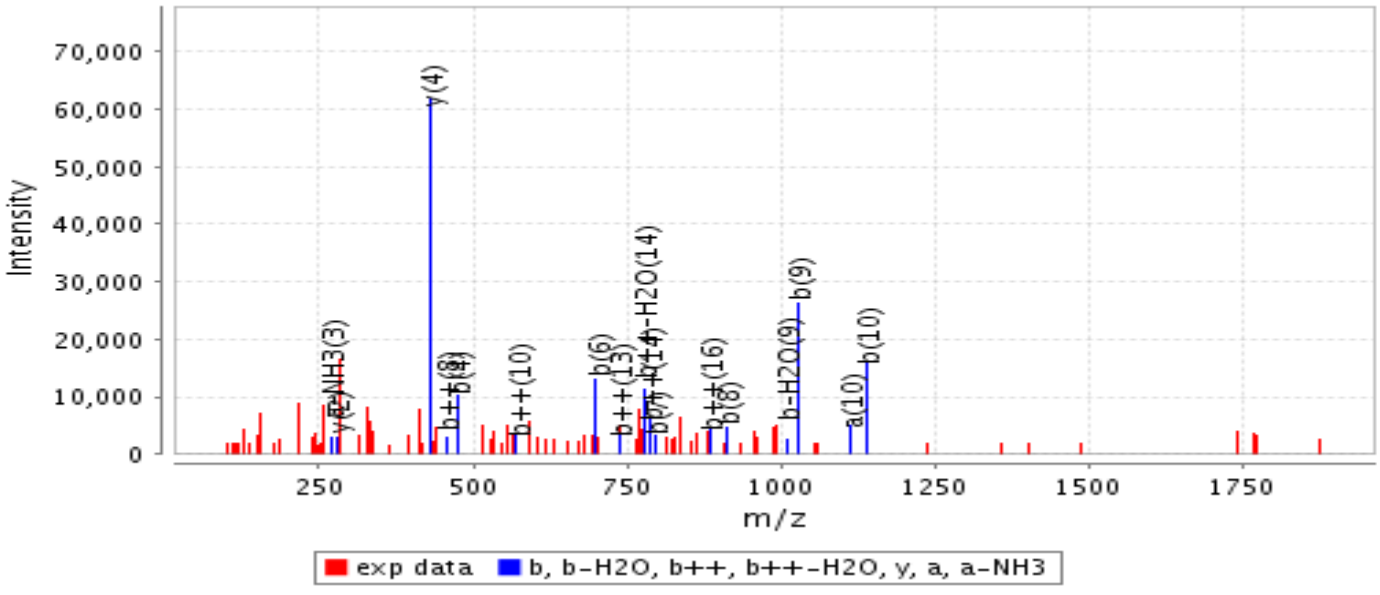
Ig γ-1 chain C region E/LLGGPSVFLFPP**K(**^{13}**Glu**$_6$**)**PKDTLMISRTPE/V [M+3H]$^{3+}$ 970.20m/z



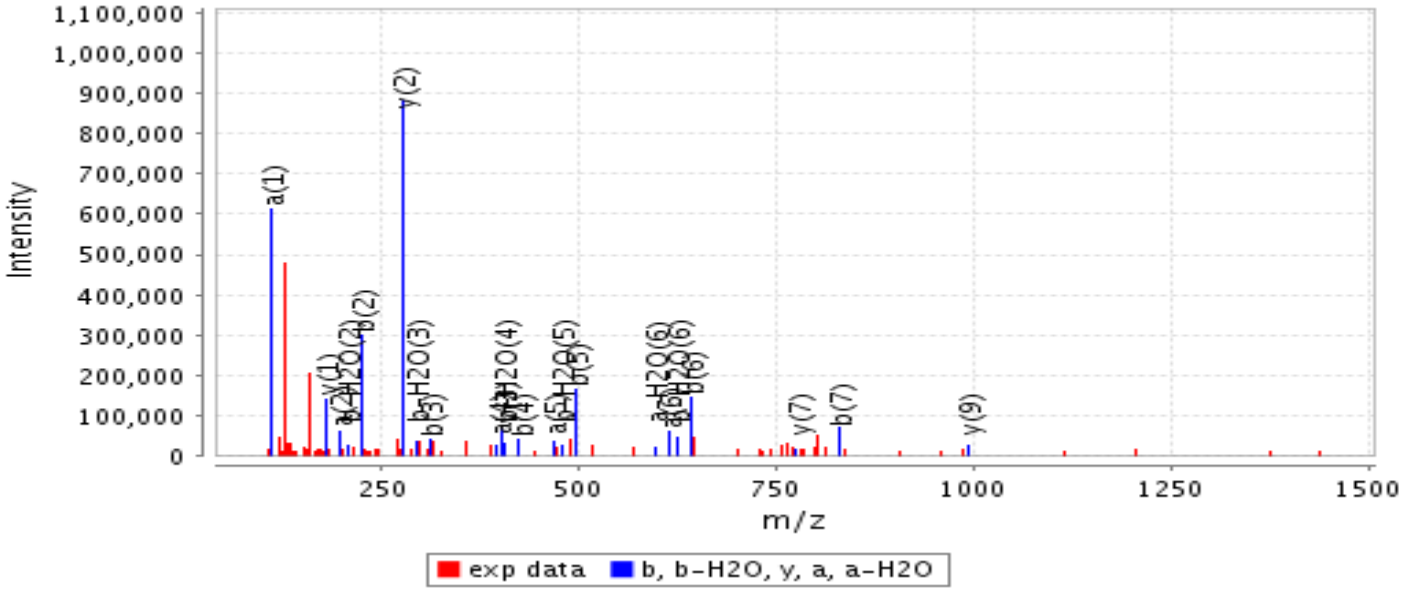
Ig γ-1 chain C region E/YKCKVSNKALPAPIEKTIS**K(**^{13}**Glu**$_6$**)**AKGQPREPQVYTLPPSRDE/L [M+6H]$^{6+}$ 765.25 m/z



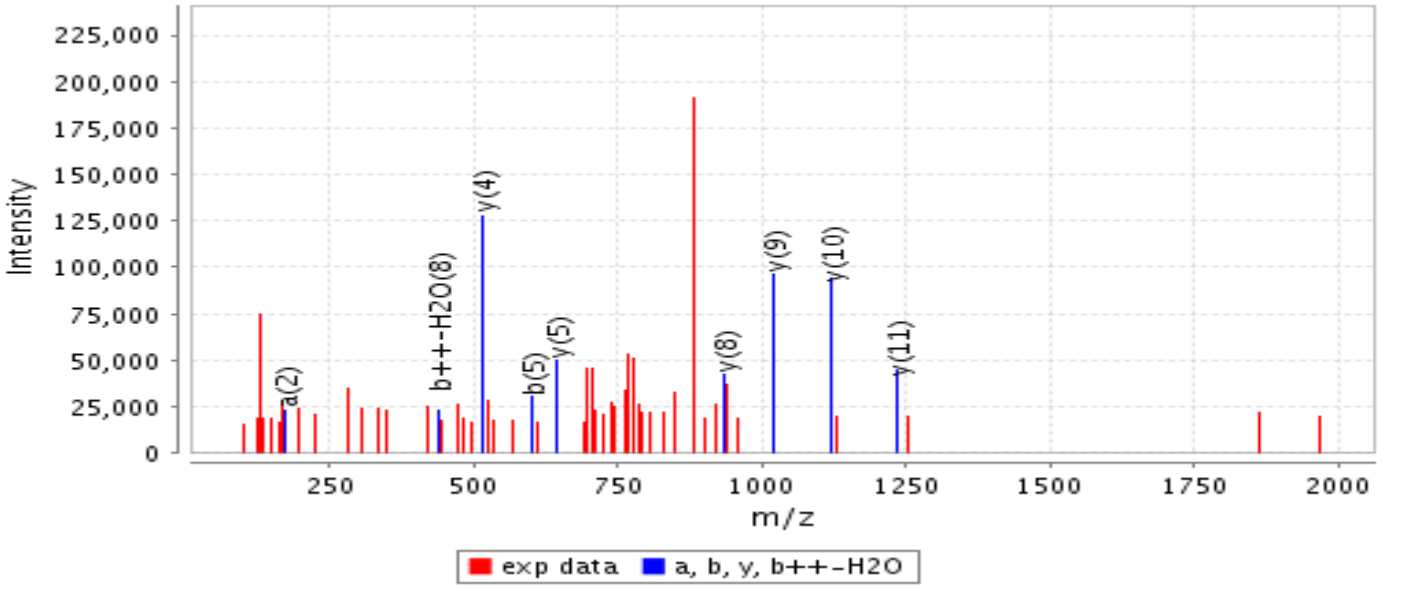
β-2-glycoprotein 1 ./GRTCPKPDDLPFSTVVPL**K**^{13}**Glu**$_6$**)**TFYEPGEE/I [M+3H]$^{3+}$ 1083.20 m/z



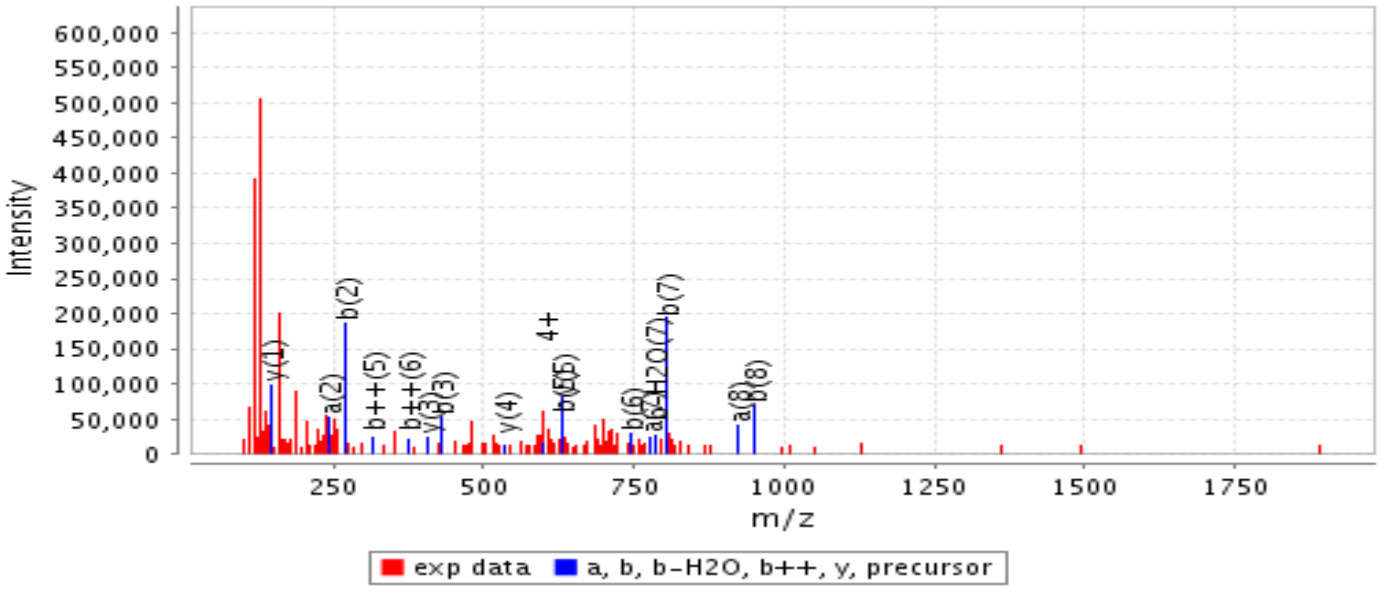
β-2-glycoprotein 1 E/HSSLAFW**K(^{13}Glu$_6$)**TDASDVKPC/- [M+3H]$^{3+}$ 706.34 m/z



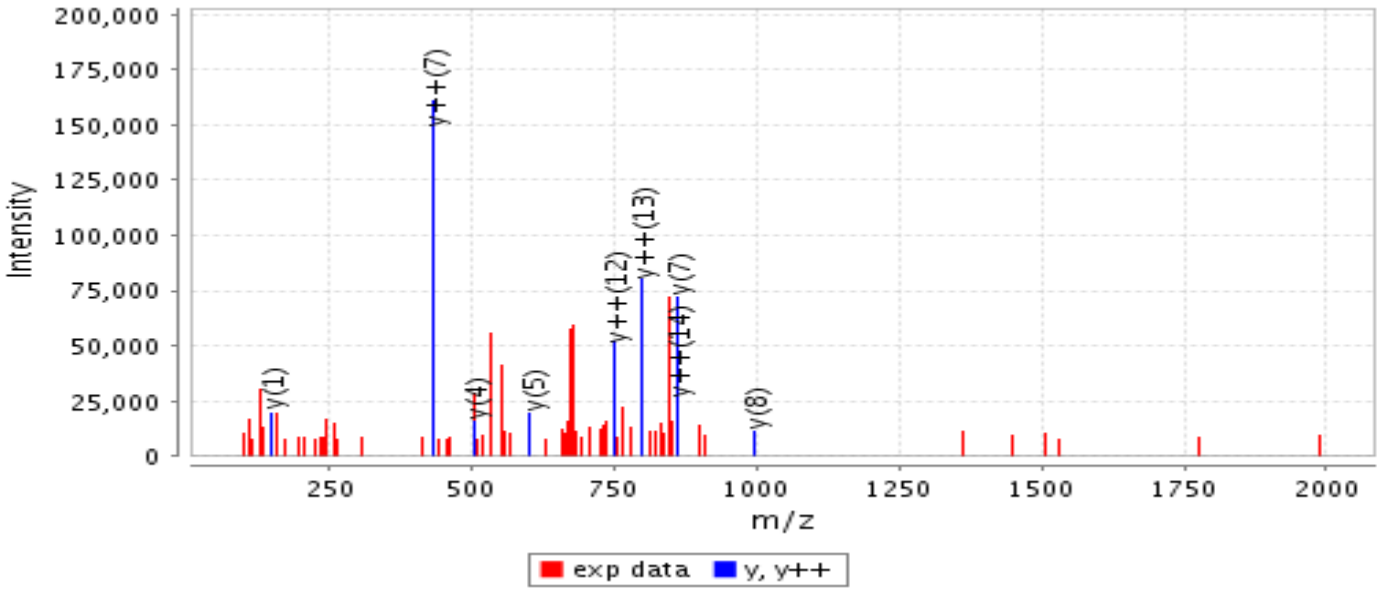
Complement factor H E/VVKCLPVTAPENG**K(^{13}Glu$_6$)**IVSSAMEPDRE/Y [M+3H]$^{3+}$ 724.36 m/z



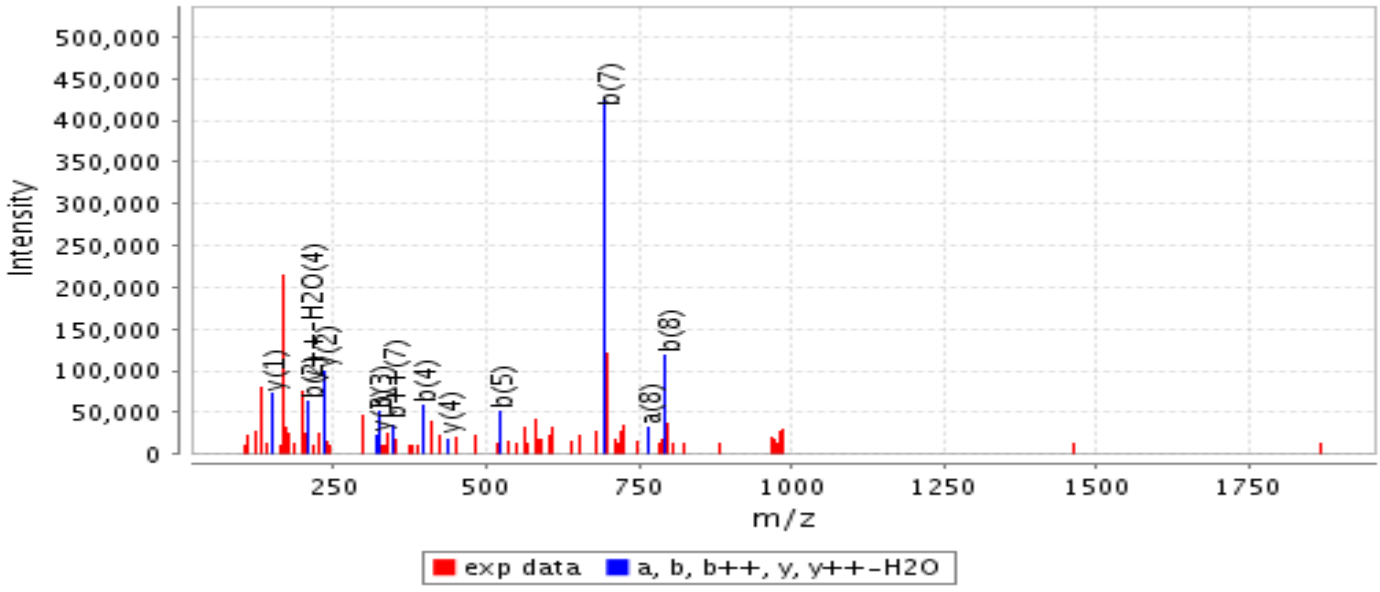
Complement factor H E/MHCSDDGFWS**K(**^{12}**Glu**$_6$**)**EKPKCVE/I [M+4H]$^{4+}$ 601.26 m/z



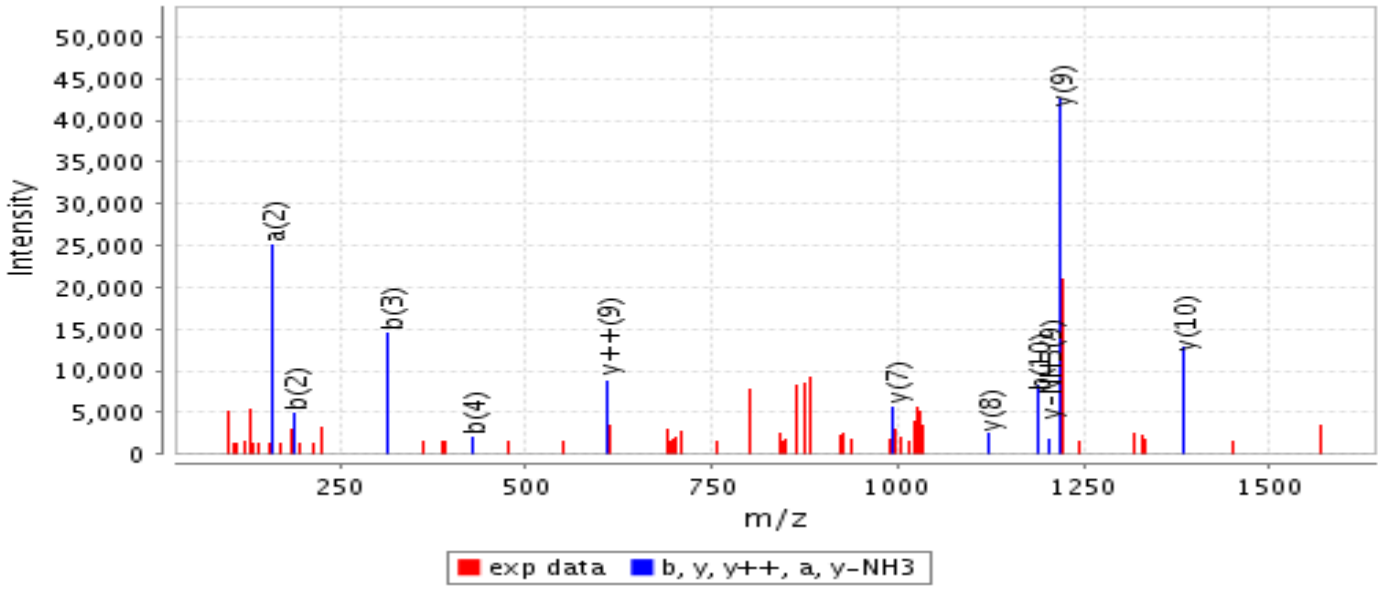
Complement factor H E/GN**K(**^{13}**Glu**$_6$**)**RITCRNGQWSEPPKCLHPCVISRE/I [M+5H]$^{5+}$ 690.34 m/z



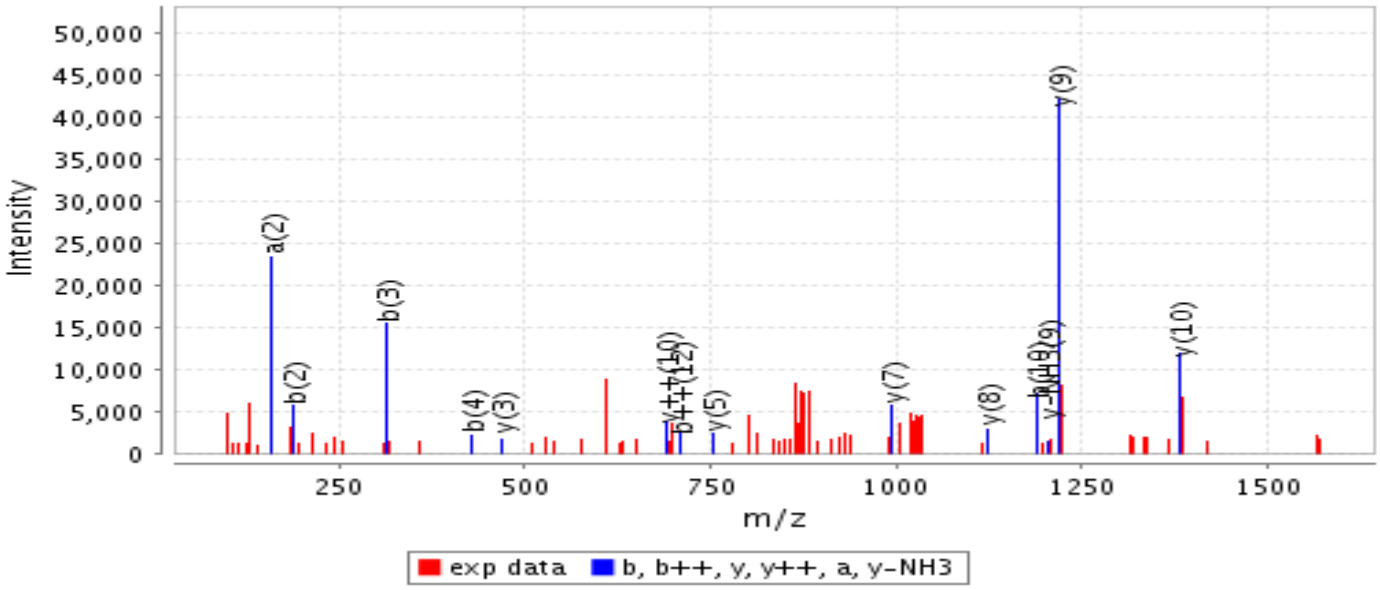
Complement C3c α' chain fragment E/AHDAQGDVPVTVTVHDFPG**K(^{13}Glu$_6$)**KLVLSSE/K [M+5H]$^{5+}$ 603.71 m/z



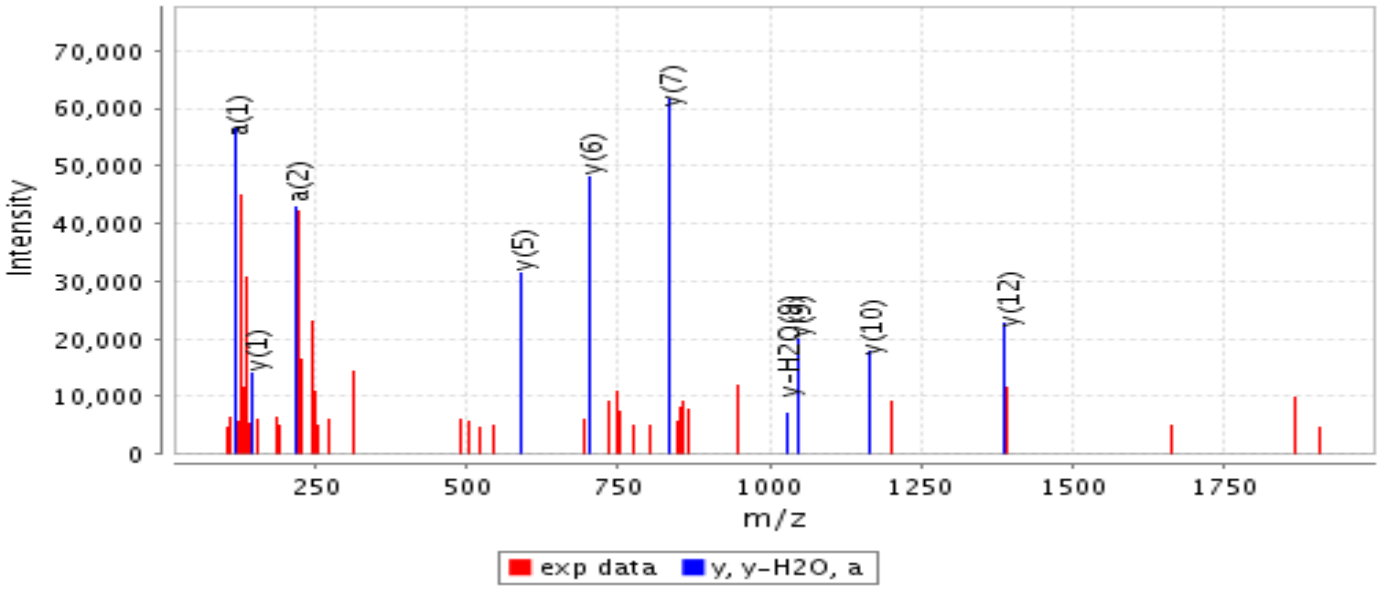
Complement C3c α' chain fragment R/SVQLTEKRMD**K(^{13}Glu$_6$)**VGKYPKELRKCCE/D [M+3H]$^{3+}$ 1050.87 m/z



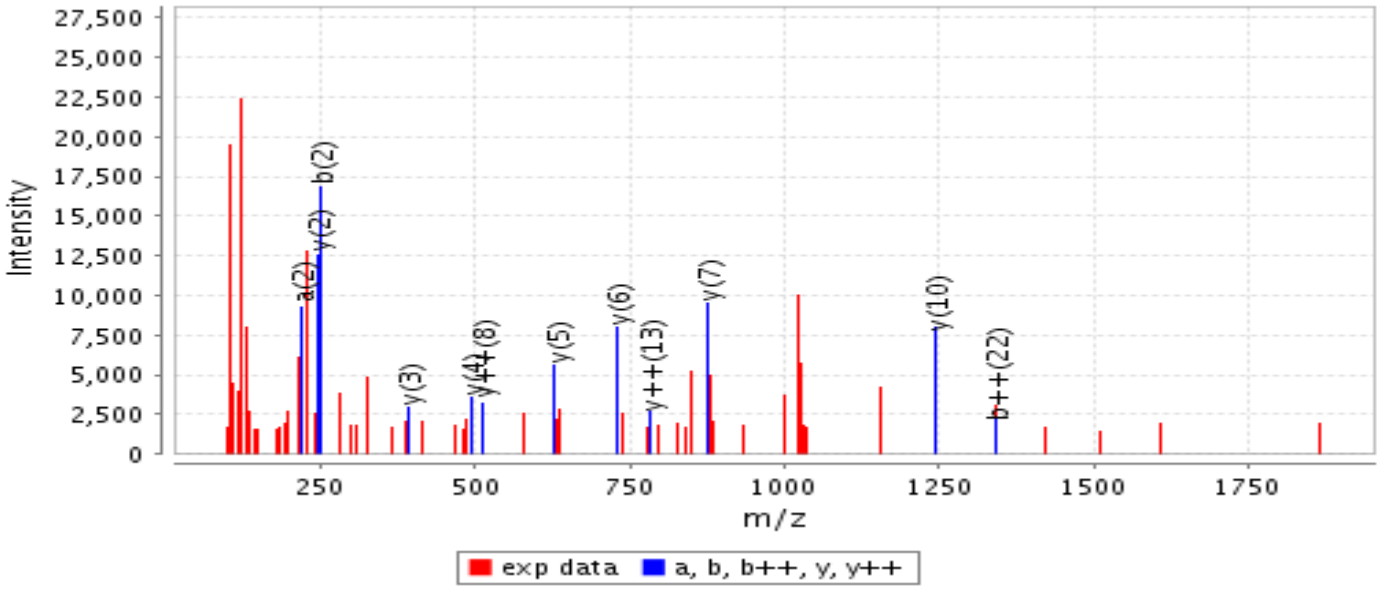
Complement C3c α' chain fragment R/SVQLTEKRMDKVG**K(13Glu6)**YPKELRKCCE/D [M+3H]3+ 1050.86 m/z



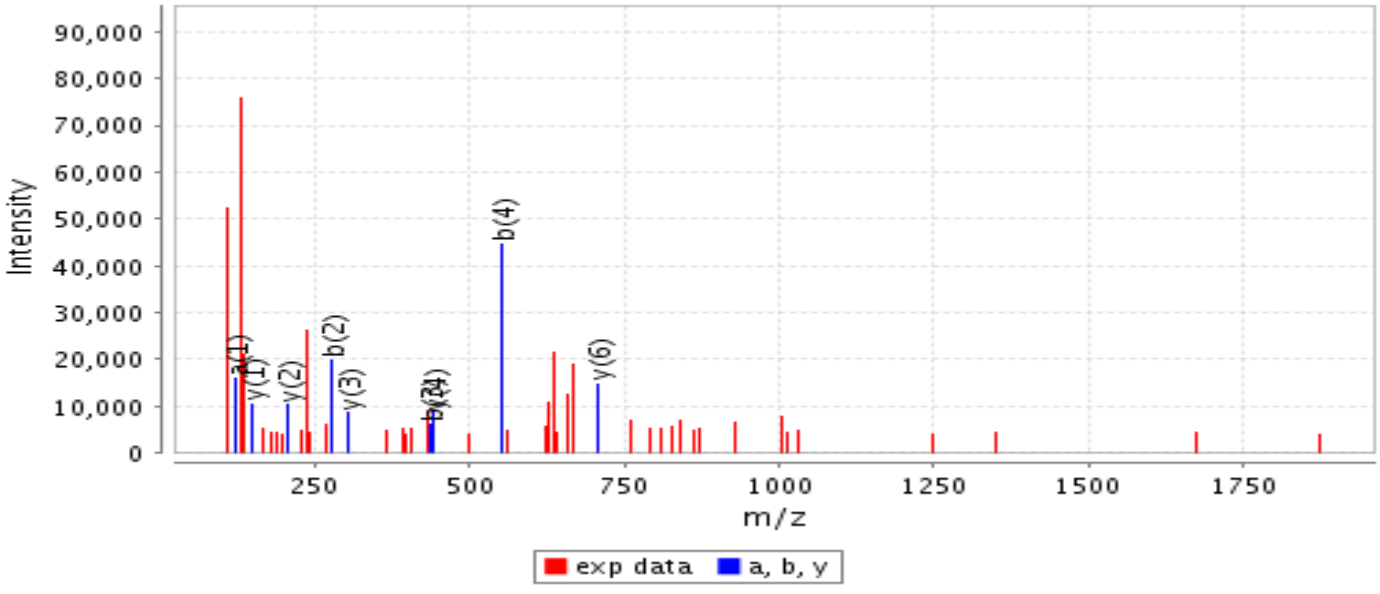
Ig γ-4 chain C region L/FPP**K(13Glu6)**PKDTLMISRTPE/V [M+3H]3+ 675.93 m/z



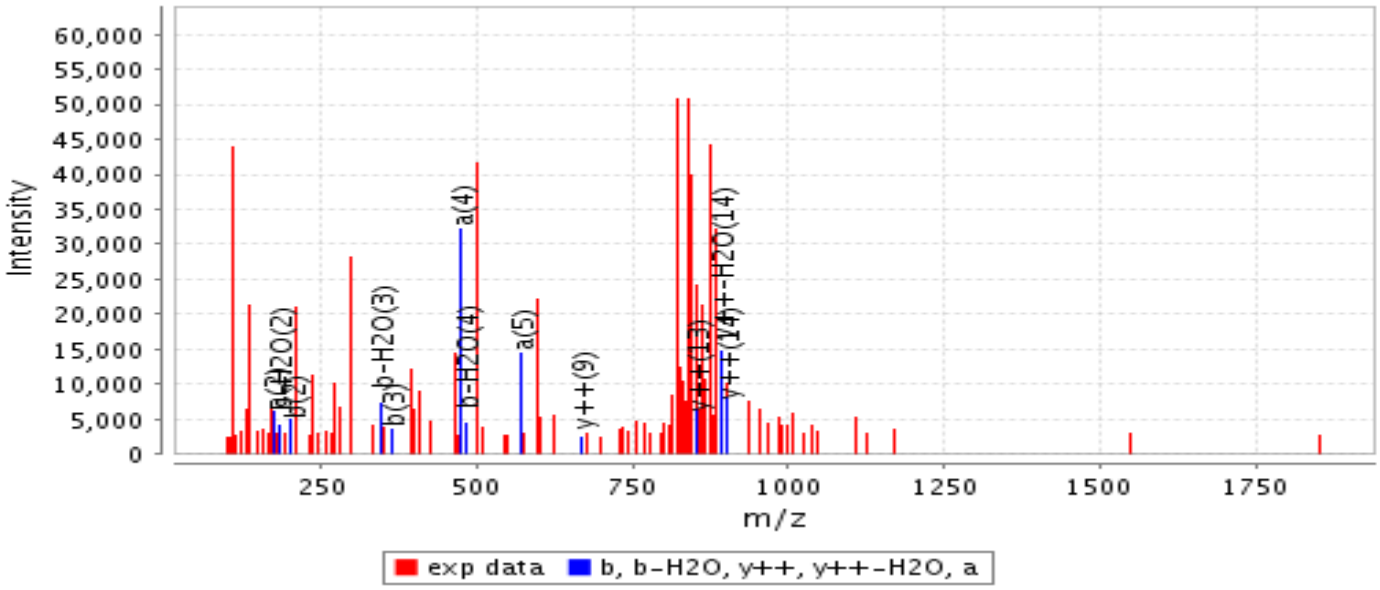
Histidine-rich glycoprotein E/SCPG**K(^{12}Glu$_6$)**FKSGFPQVSMFFTHTFPK/- [M+4H]$^{4+}$ 706.84 m/z



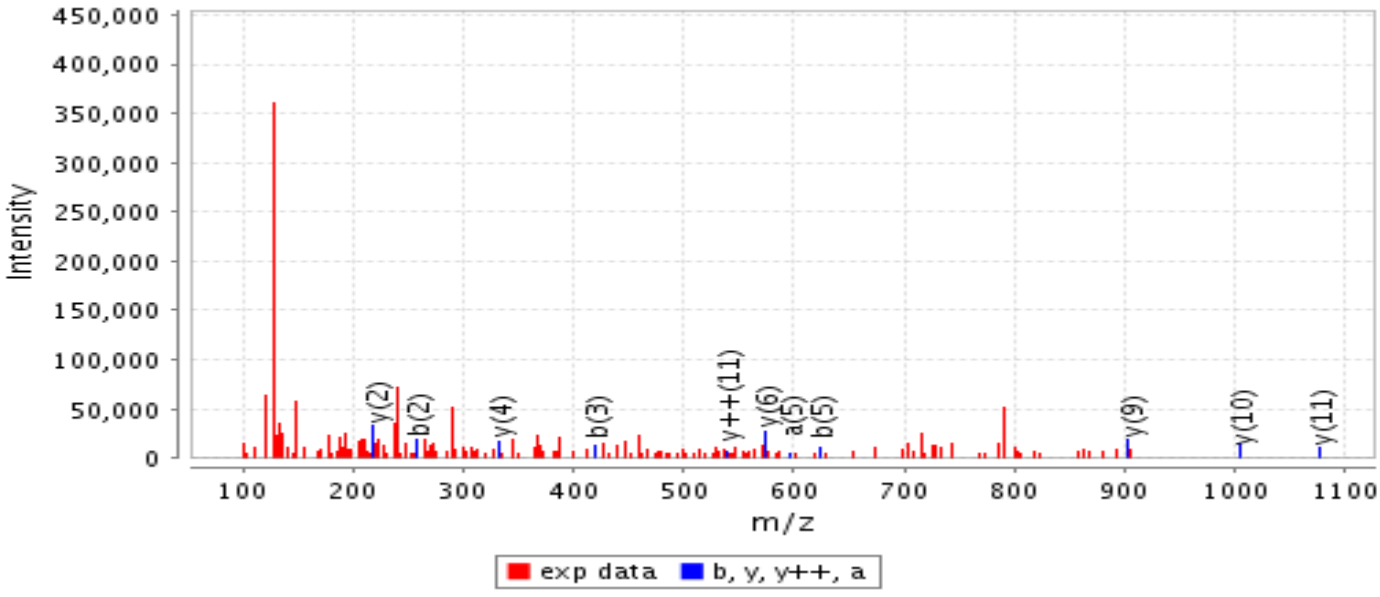
Ugl-Y3 E/FKCDPHEATCYDDG**K(^{13}Glu$_6$)**TYHVGE/Q [M+4H]$^{4+}$ 675.03 m/z



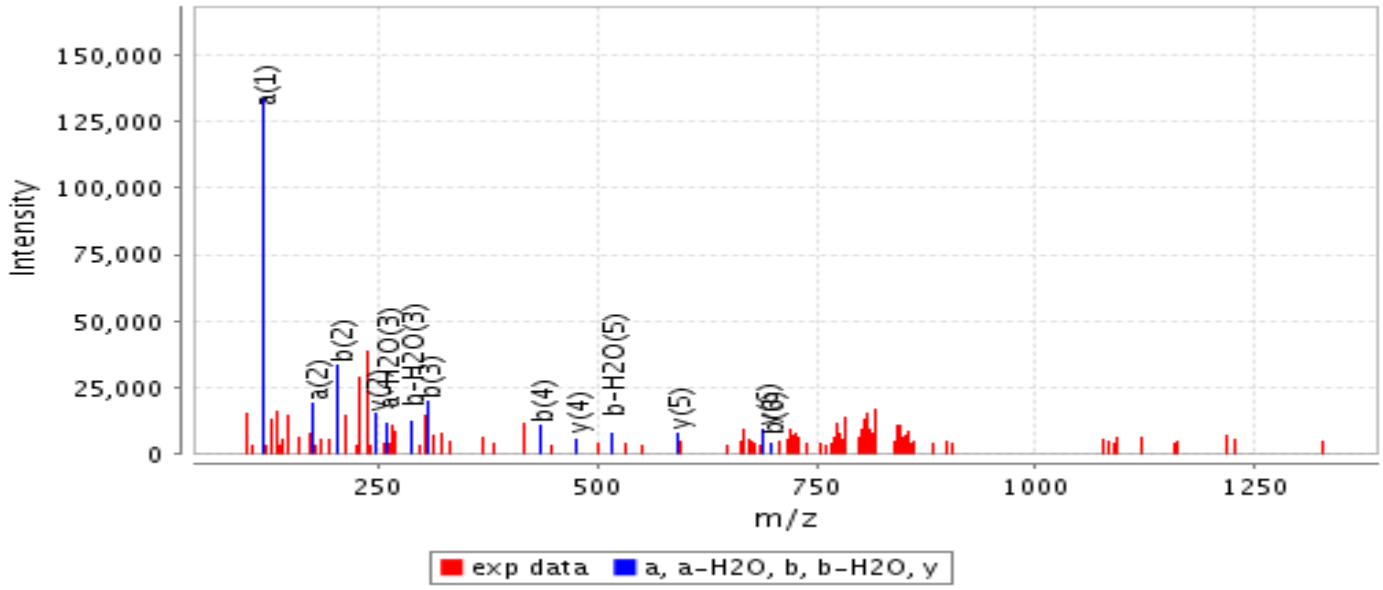
α-2-HS-glycoprotein chain B E/TTCHVLDPTPVA**R(**^{12}**Glu**$_6$**)**CSVRQLKE/H [M+3H]$^{3+}$ 877.11 m/z



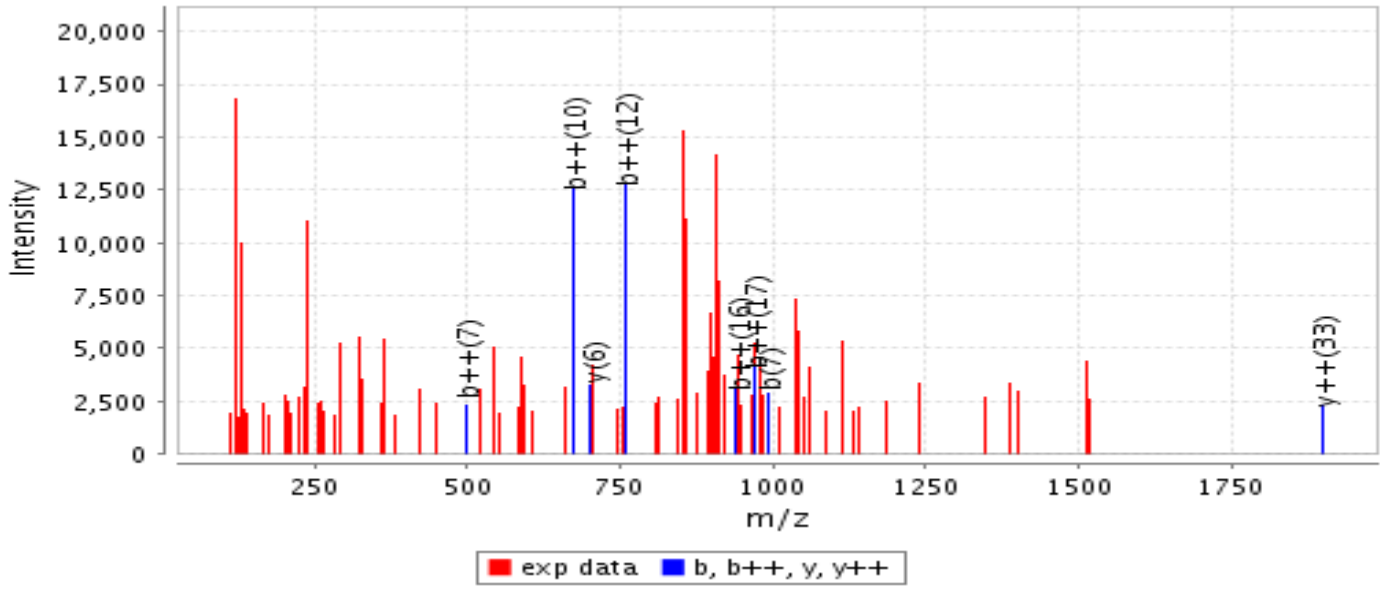
α-2-HS-glycoprotein chain B E/KQYGFC**K(**^{12}**Glu**$_6$**)**ATLSEKLGGAE/V [M+3H]$^{3+}$ 717.02 m/z



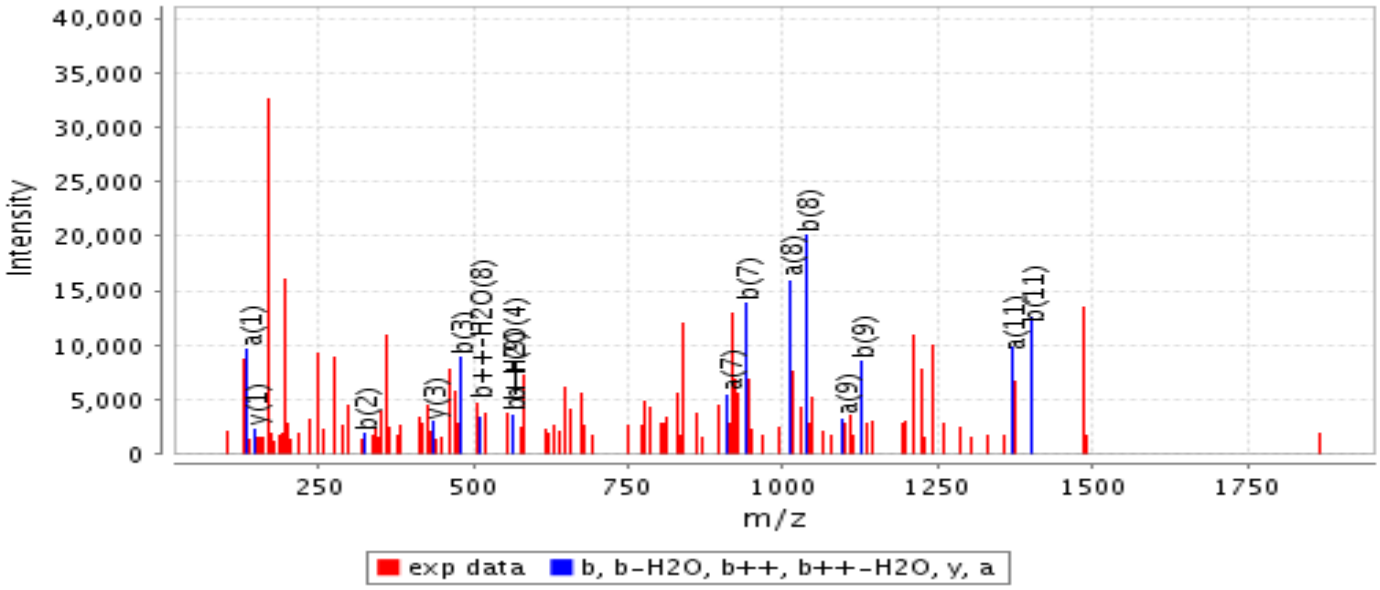
Ig γ-2 chain C region N/FGTQTYTCNVDH**K(¹³Glu₆)**PSNTKVDKTVE/R [M+4H]$^{4+}$ 735.10 m/z



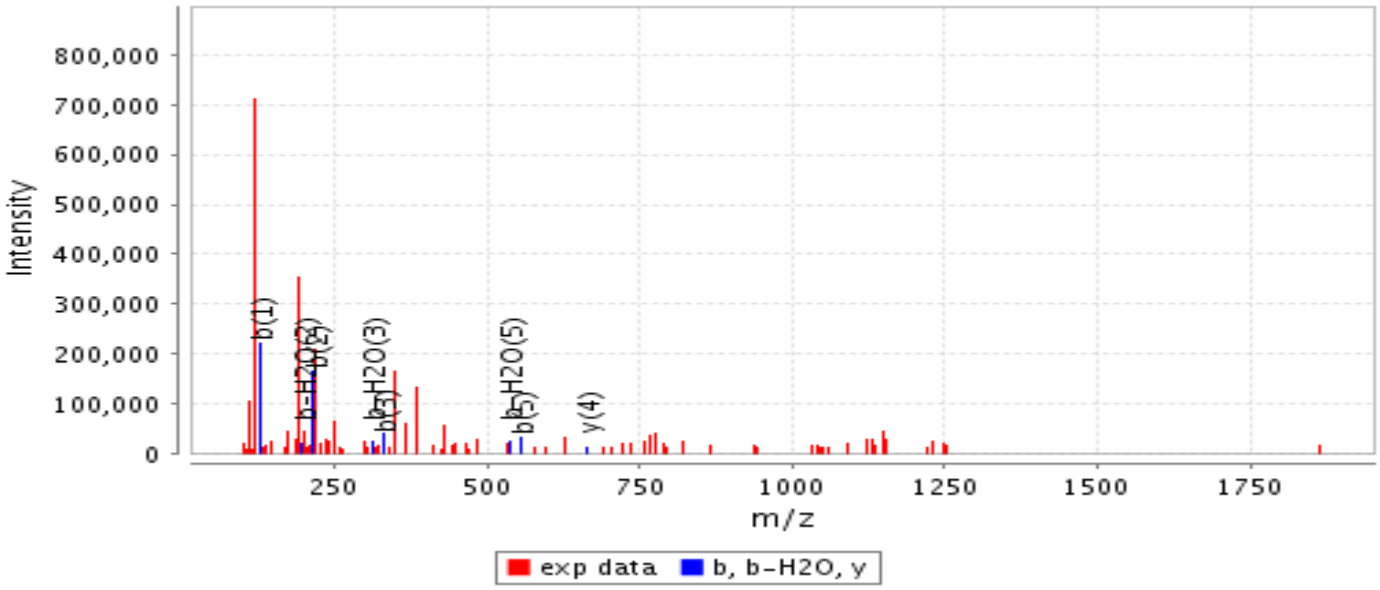
Ig γ-2 chain C region E/RKCCVECPPCPAPPVAGPSVFLFPP**K(¹²Glu₆)**PKDTLMISRTPE/V [M+5H]$^{5+}$ 900.45 m/z



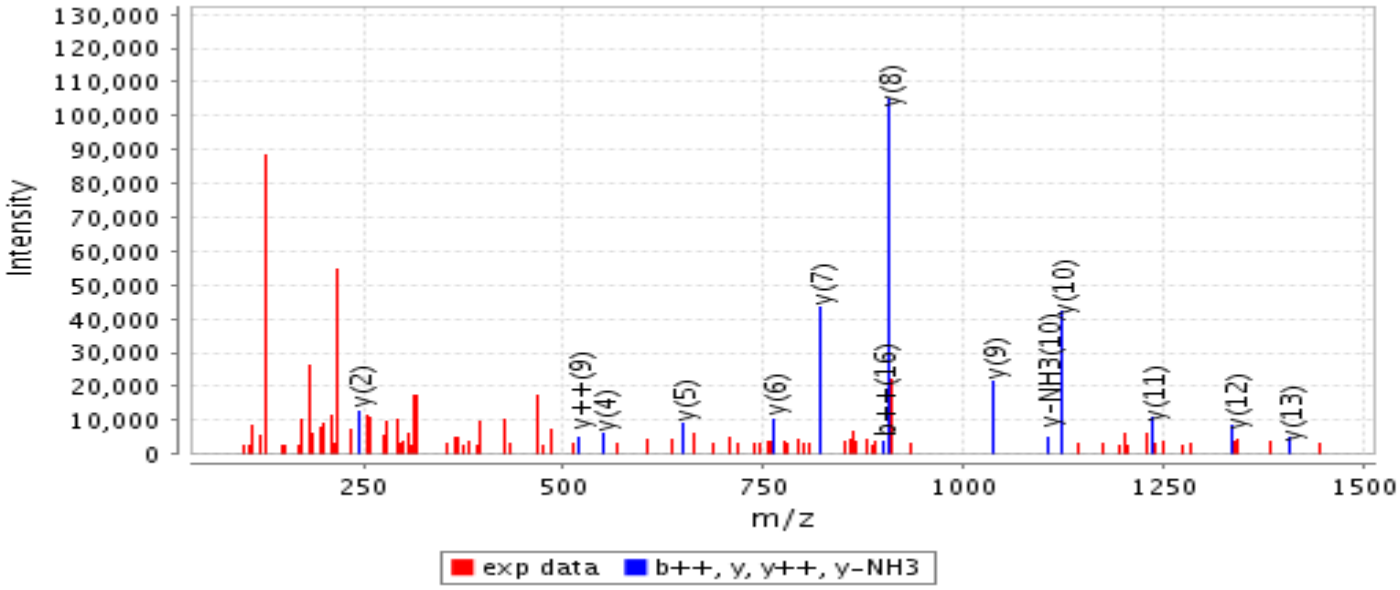
Fibrinopeptide B E/YCRTPCTVSCNIPVVSG**K(^{12}Glu$_6$)**ECEE/I [M+3H]$^{3+}$ 936.40 m/z



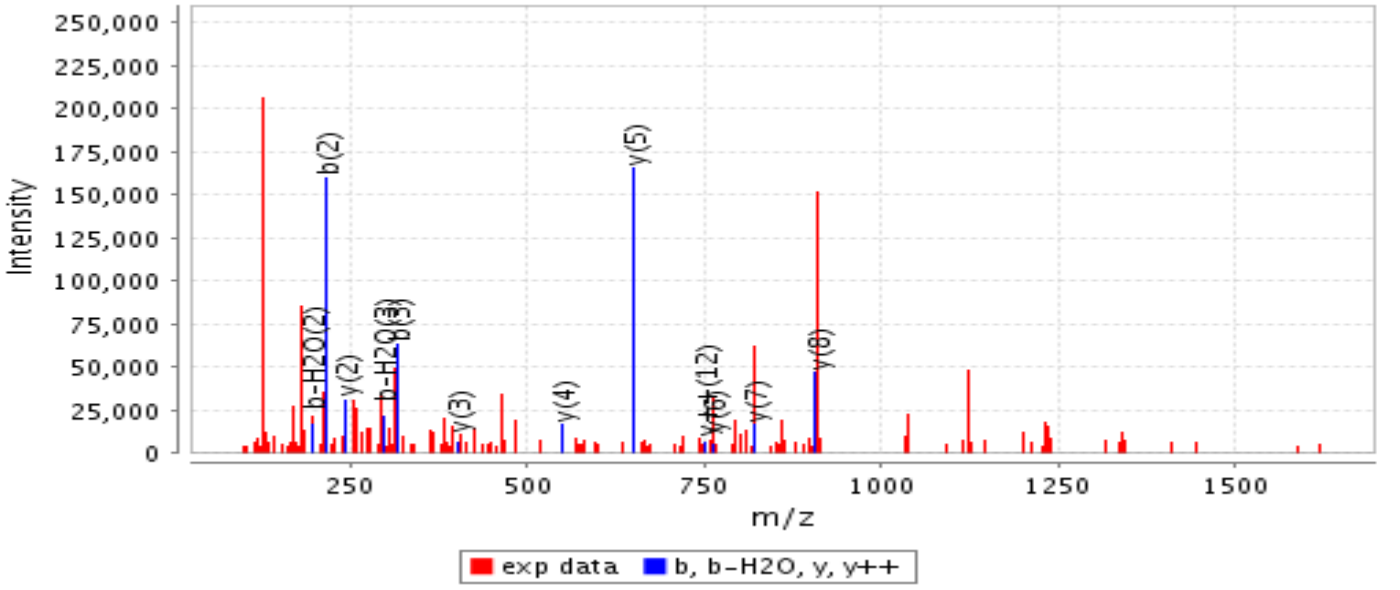
Spectrin β chain, brain 1 W/KSLLDACESRRV**R(^{13}Glu$_6$)**LVD/T [M+3H]$^{3+}$ 693.70 m/z



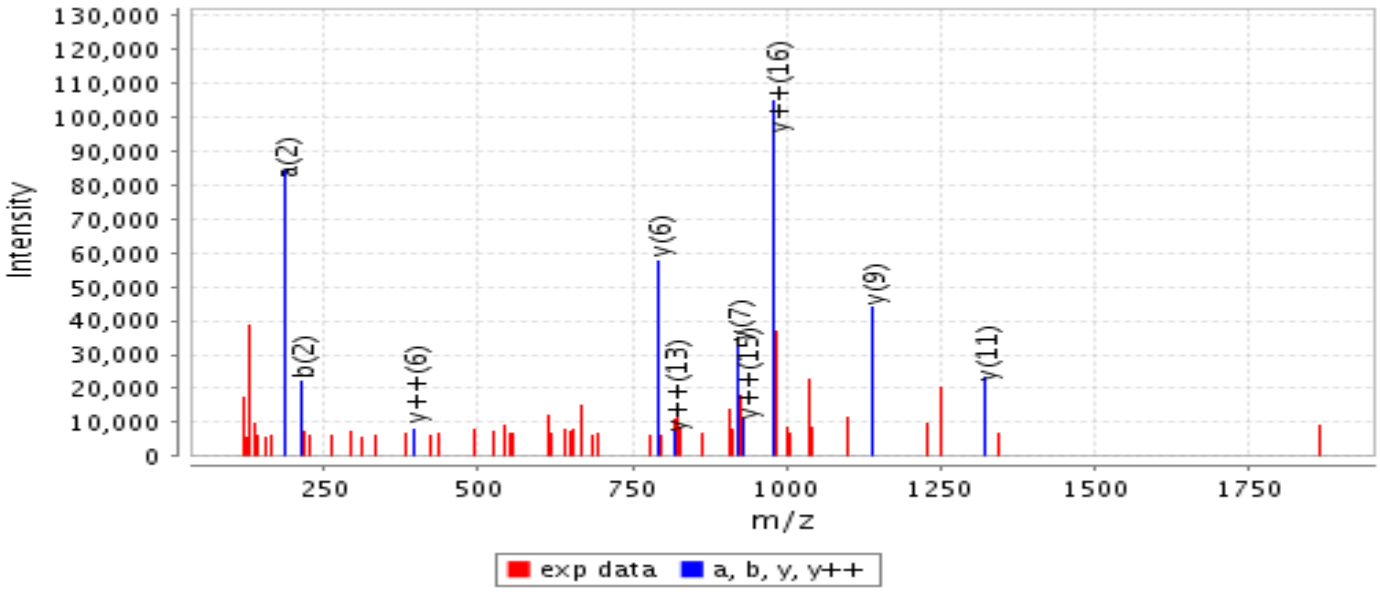
Ig α-1 chain C region E/S**K(^{12}Glu$_6$)**TPLTATLSKSGNTFRPE/V [M+3H]$^{3+}$ 733.05 m/z



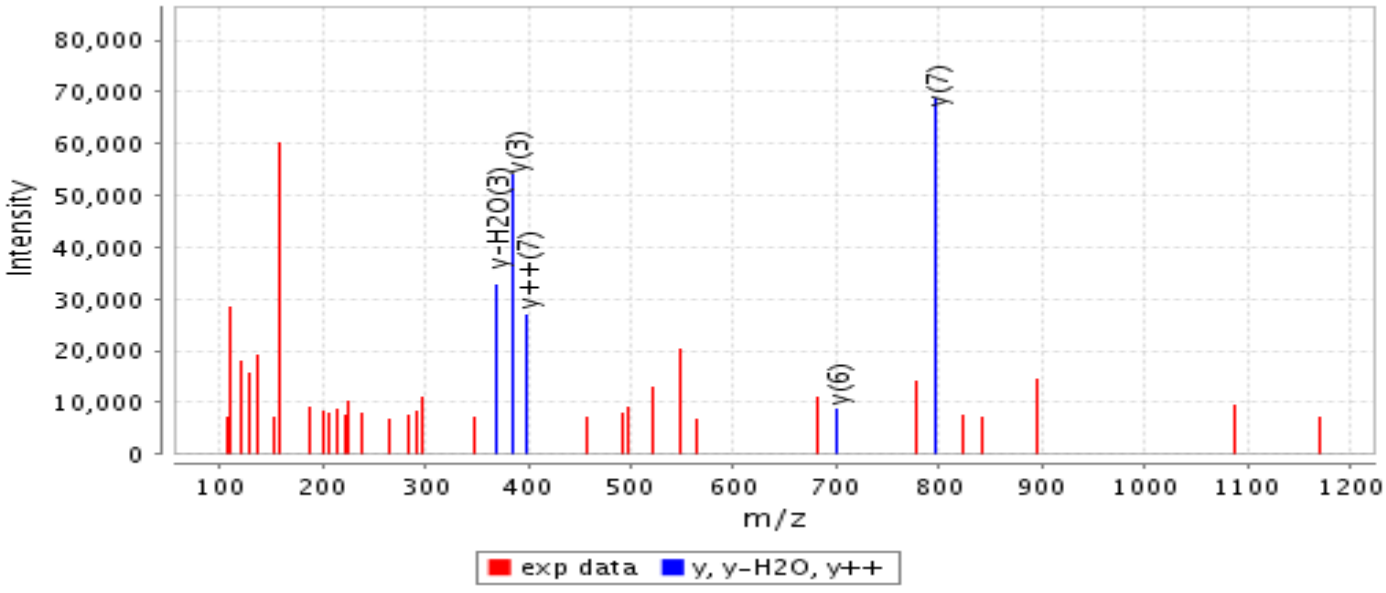
Ig α-1 chain C region E/SKTPLTATLS**K(^{12}Glu$_6$)**SGNTFRPE/V [M+3H]$^{3+}$ 733.05 m/z



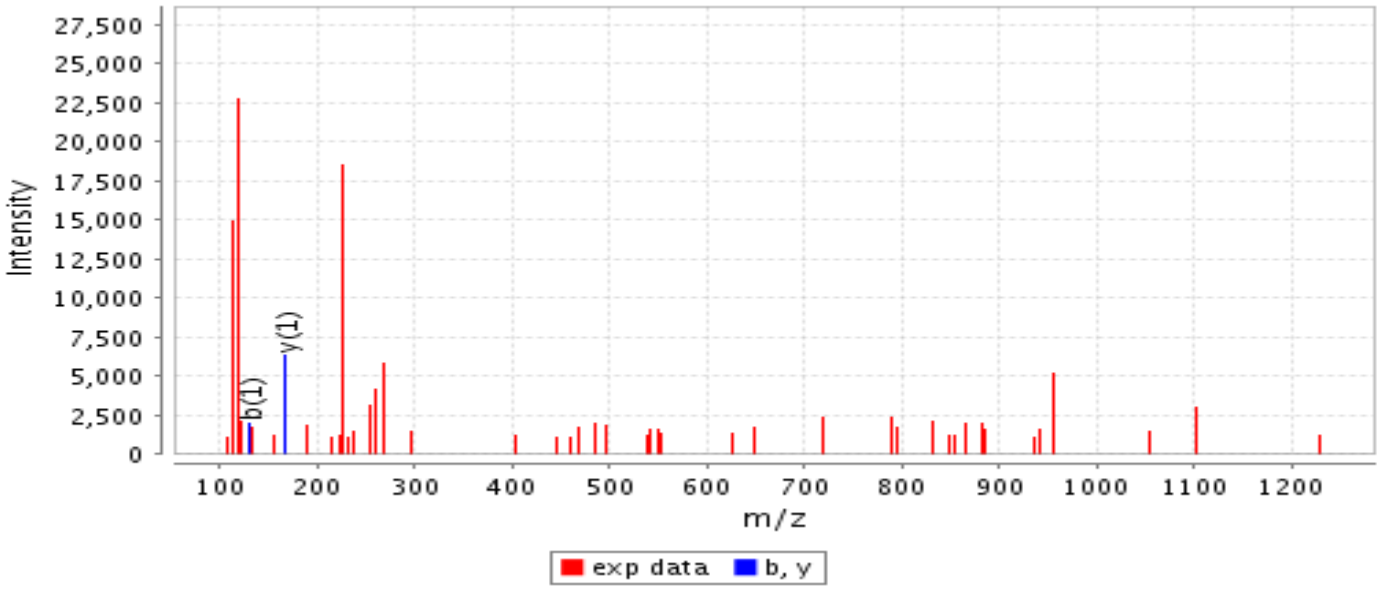
Fibrinopeptide A D/LVPGNF**K(^{13}Glu$_6$)**SQLQKVPPEWKALTDMPQMRME/L [M+4H]$^{4+}$ 892.46 m/z



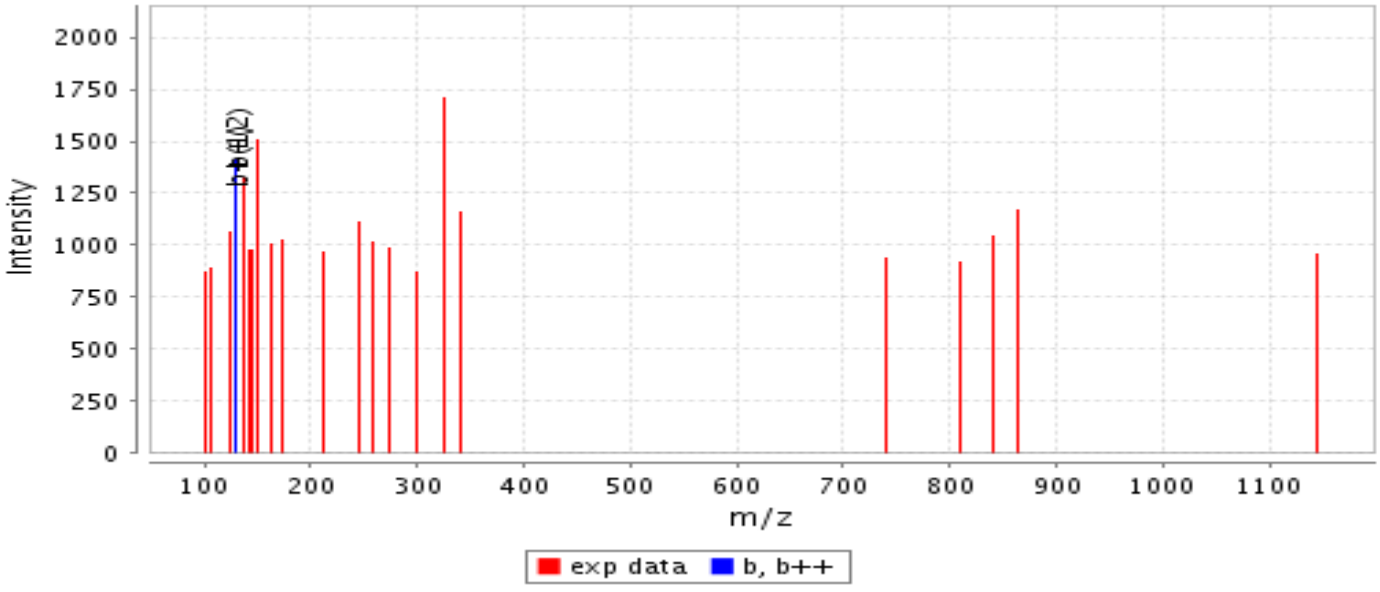
α-2-macroglobulin ./SVSG**K(^{13}Glu$_6$)**PQYMVLVPSLLHTE/T [M+3H]$^{3+}$ 751.72 m/z



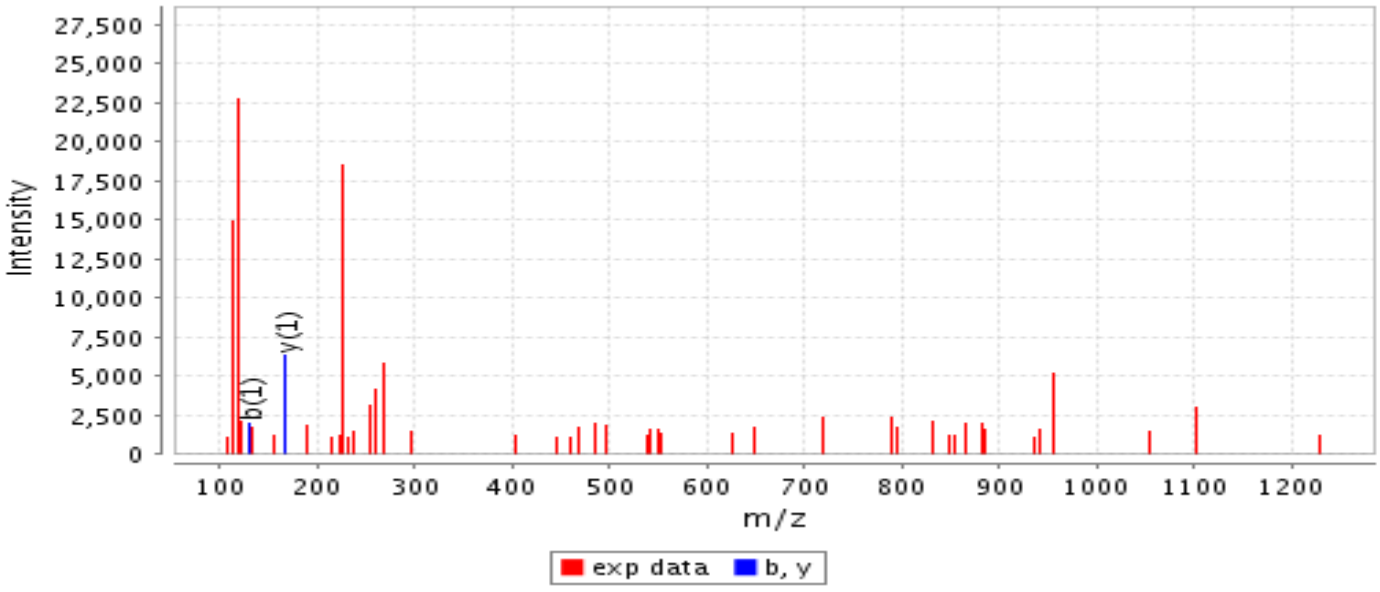
Afadin E/K**R(**^{12}**Glu**$_6$**)**MQEF/R [M+3H]$^{3+}$ 499.29 m/z



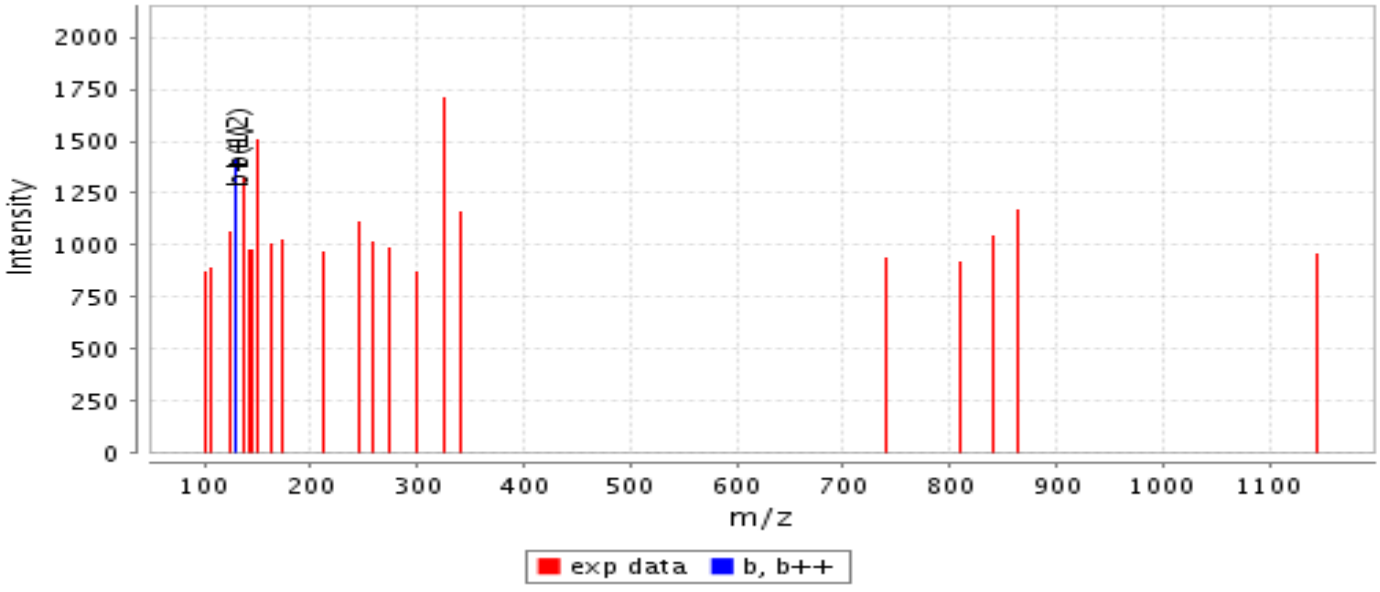
Serum albumin ./SVSG**K(**^{13}**Glu**$_6$**)**PQYMVLVPSLLHTE/T [M+3H]$^{3+}$ 406.20 m/z



Afadin E/K**R(**^{12}**Glu**$_6$**)**MQEF/R [M+3H]$^{3+}$ 499.29 m/z

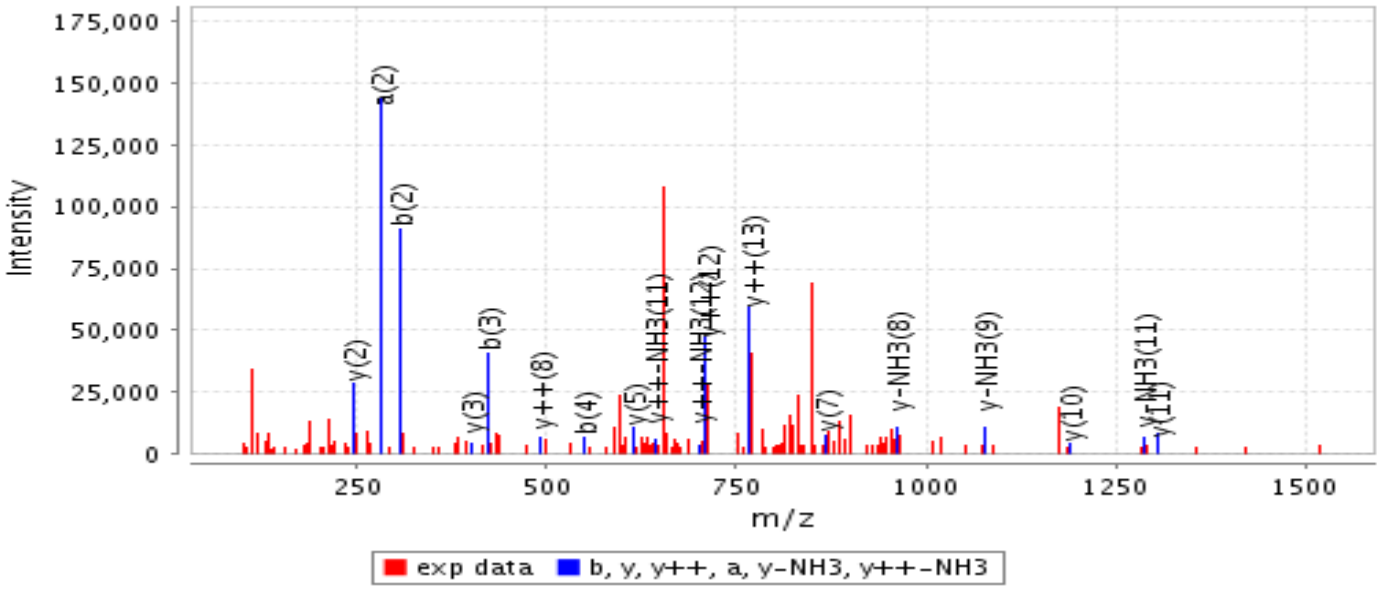


Serum albumin ./SVSG**K(**^{13}**Glu**$_6$**)**PQYMVLVPSLLHTE/T [M+3H]$^{3+}$ 406.20 m/z

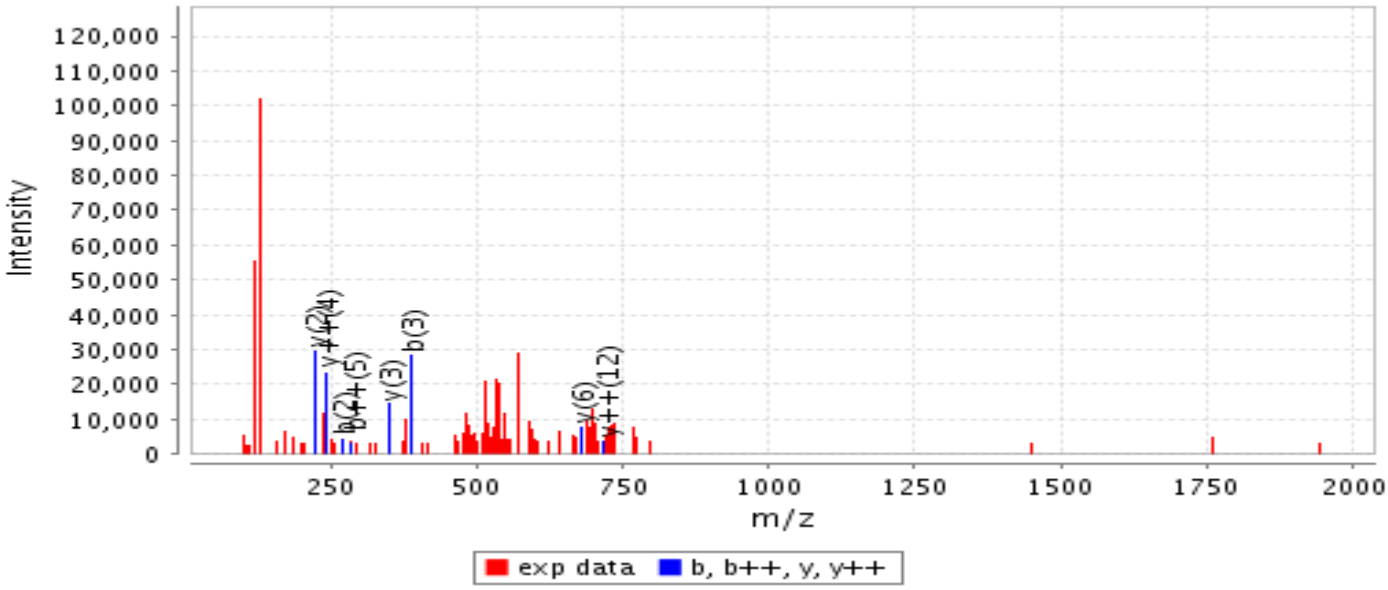


HCD-MS2 spectra of additional glycated peptides identified in the analysis of human plasma with the prediction approach

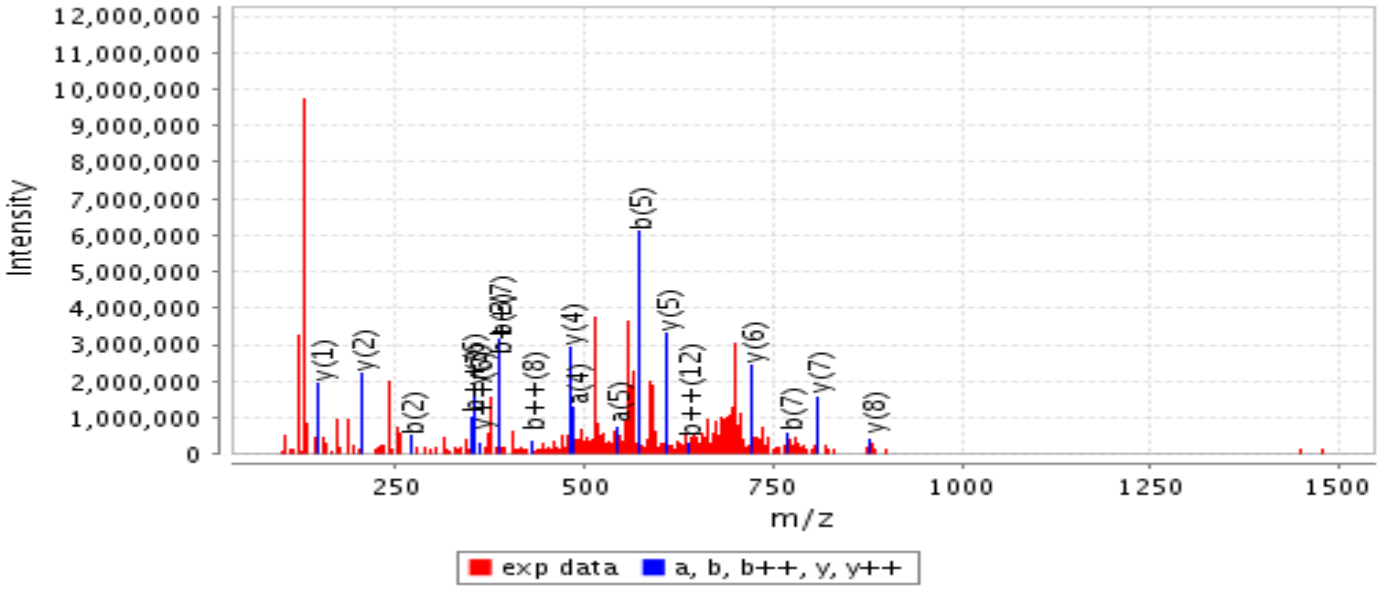
Serum albumin E/CFLQHKDDNPNLP**R(¹²Glu₆)**LVRPE/V [M+3H]$^{3+}$ 837.42 m/z



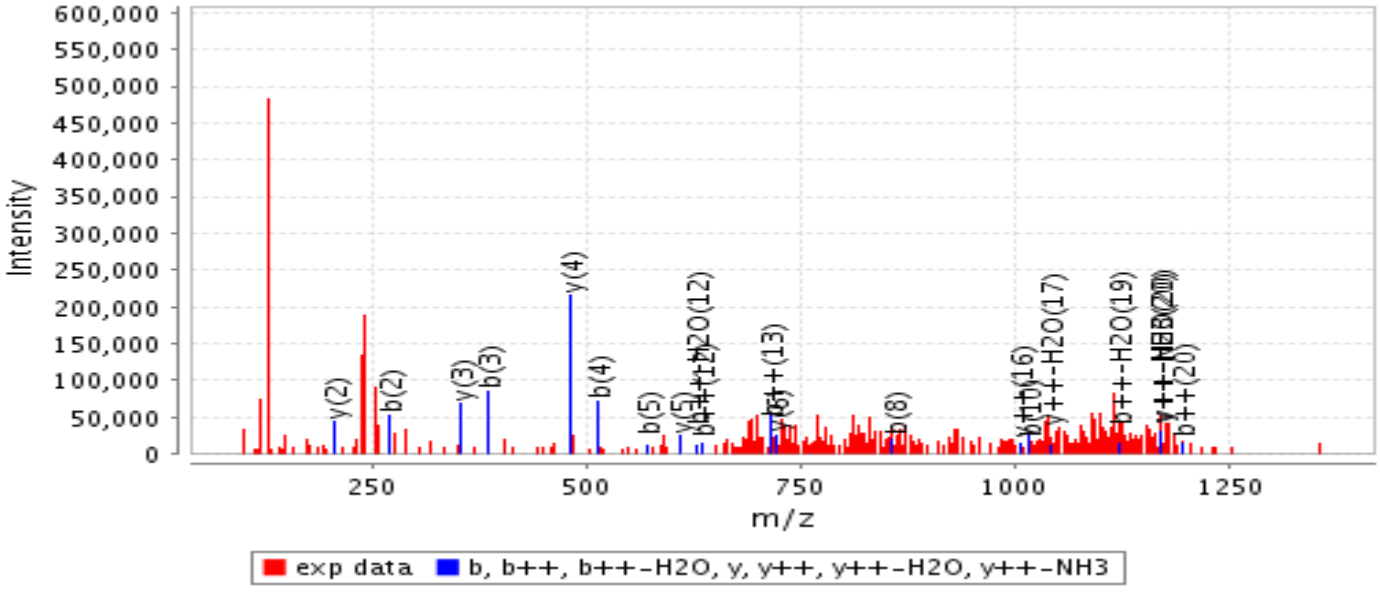
Serum albumin E/LRDEG**K(¹²Glu₆)**ASSAKQRLKCASLQKFG/E [M+5H]$^{5+}$ 548.89 m/z



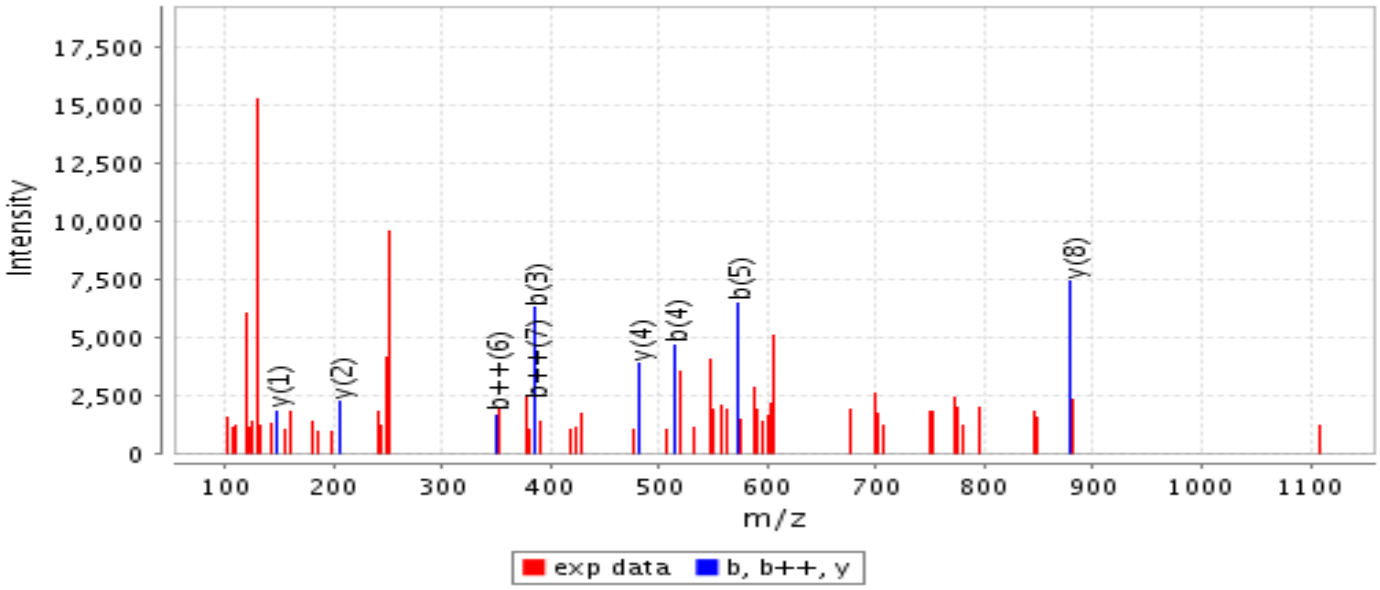
Serum albumin E/LRDEGKASSAKQ**R(¹²Glu₆)**LKCASLQKFGE/R [M+5H]$^{5+}$ 548.89 m/z



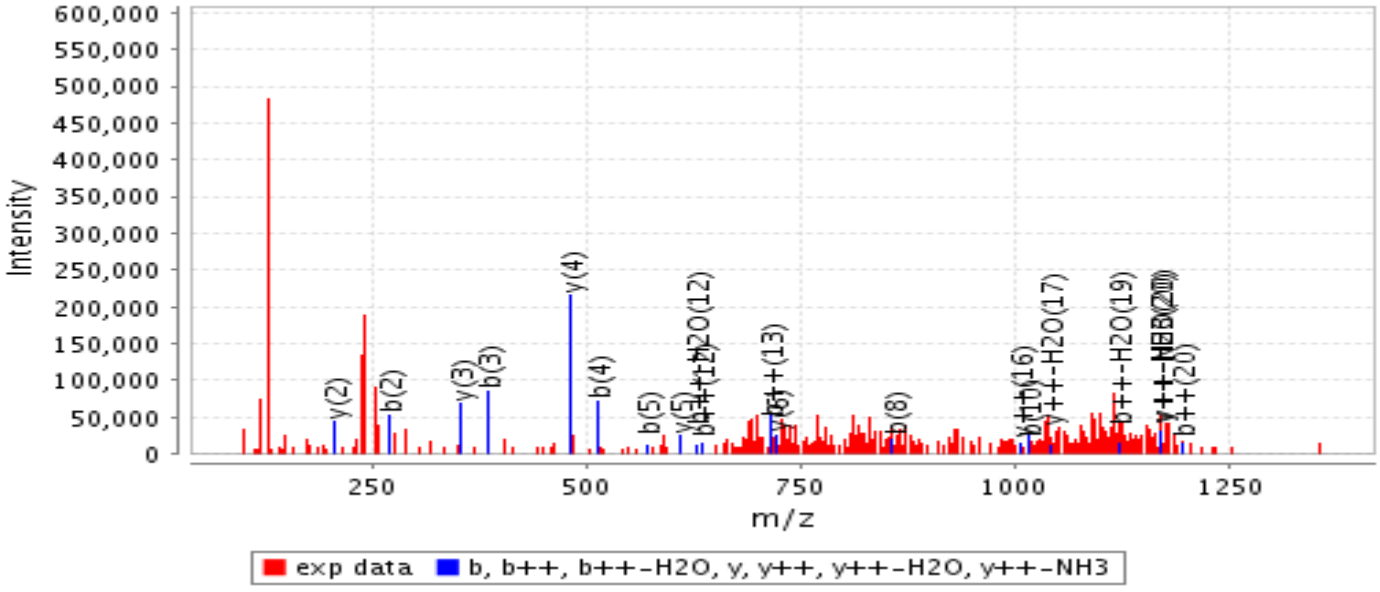
Serum albumin E/LRDEGKASSAKQRL**K(¹²Glu₆)**CASLQKFGE/R [M+3H]$^{3+}$ 957.16 m/z



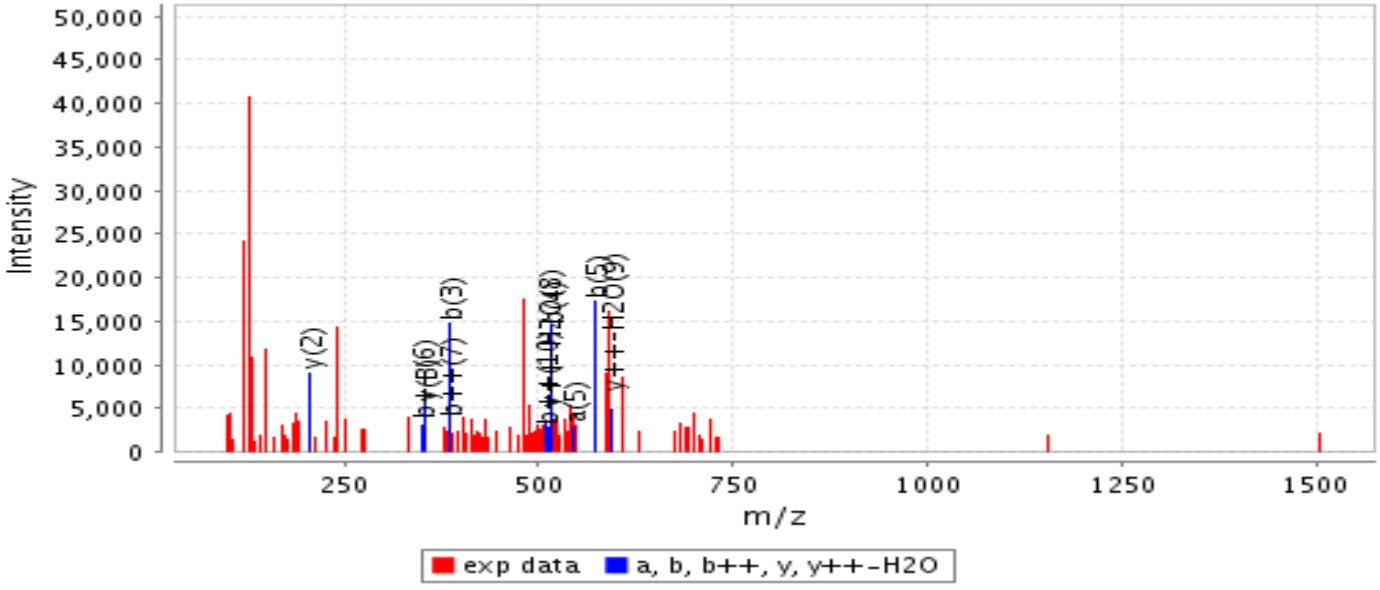
Serum albumin E/LRDEGKASSA**K(^{12}Glu$_6$)**Q**R(^{12}Glu$_6$)**LKCASLQKFGE/R [M+5H]$^{5+}$ 607.11 m/z



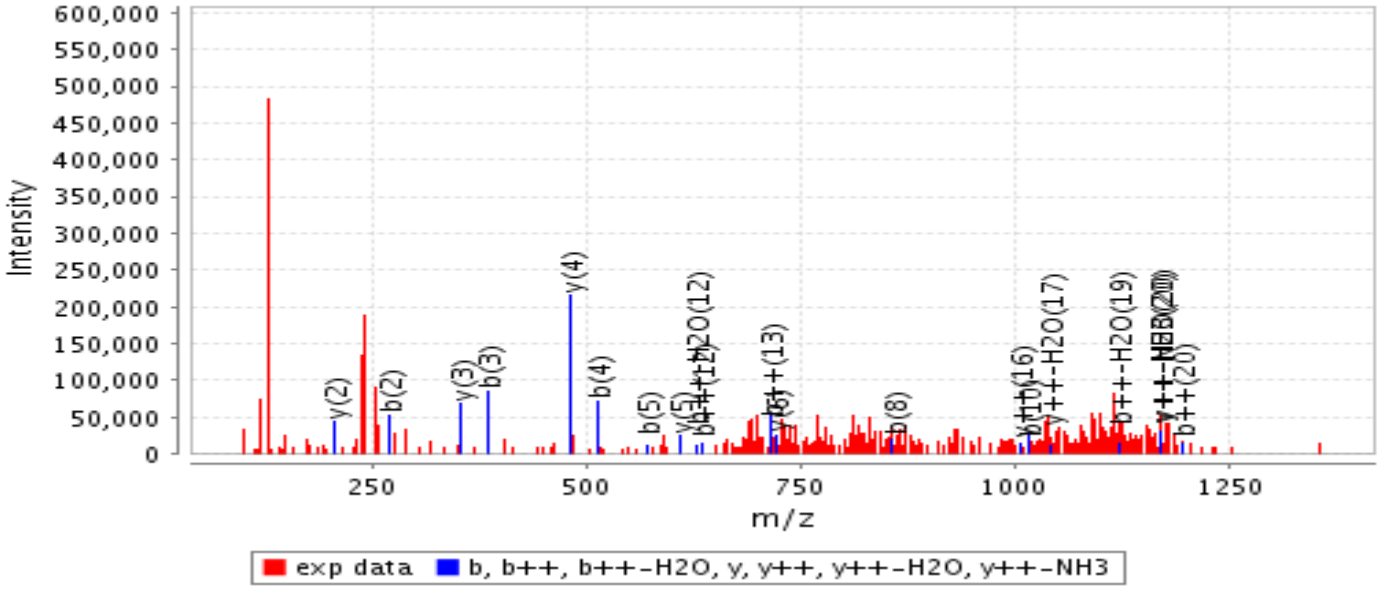
Serum albumin E/LRDEGKASSAKQ**R(^{12}Glu$_6$)**L**K(^{12}Glu$_6$)**CASLQKFGE/R [M+5H]$^{5+}$ 607.11 m/z



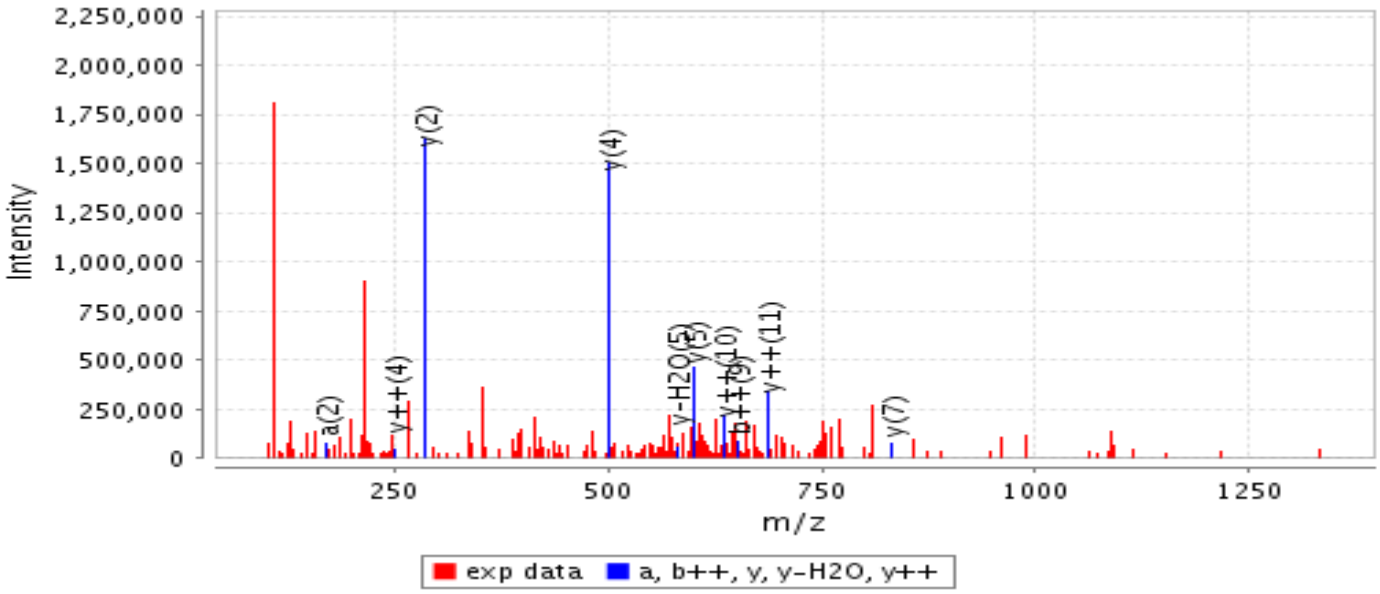
Serum albumin E/LRDEGKASSAKQ**R(12Glu6)**LKCASLQ**K(12Glu6)**FGE/R [M+6H]6+ 506.09 m/z



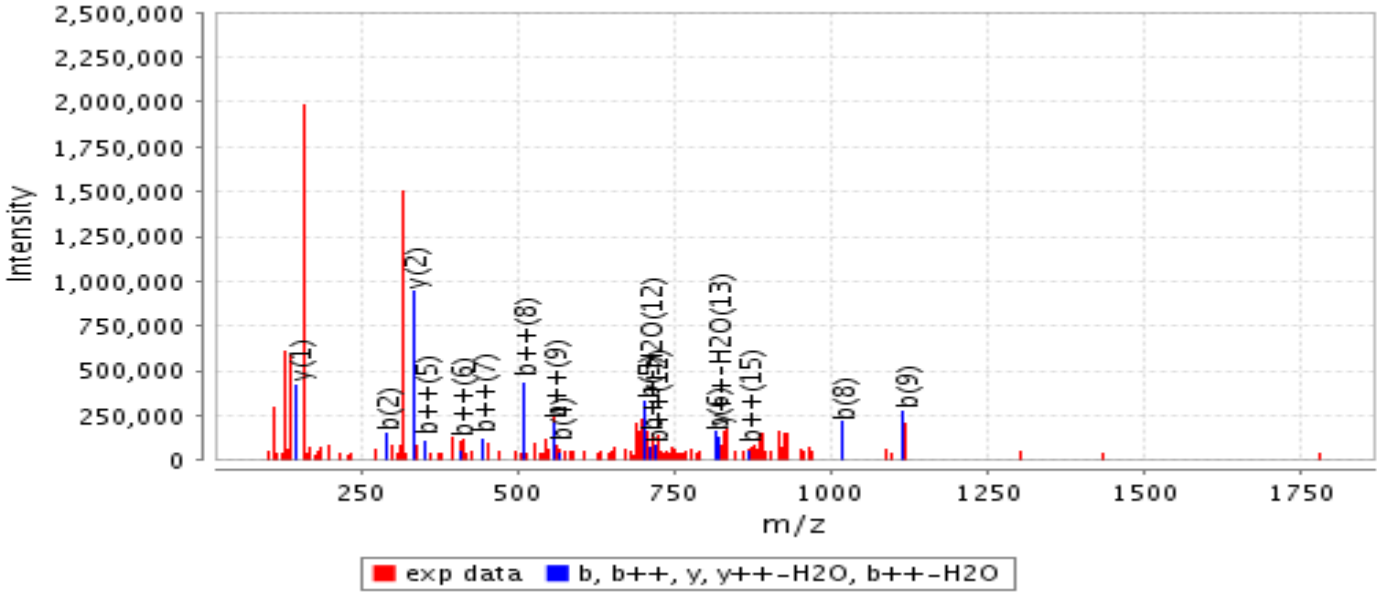
Serum albumin E/LRDEGKASSAKQ**R(12Glu6)**L**K(12Glu6)**CASLQKFGE/R [M+5H]5+ 607.11 m/z



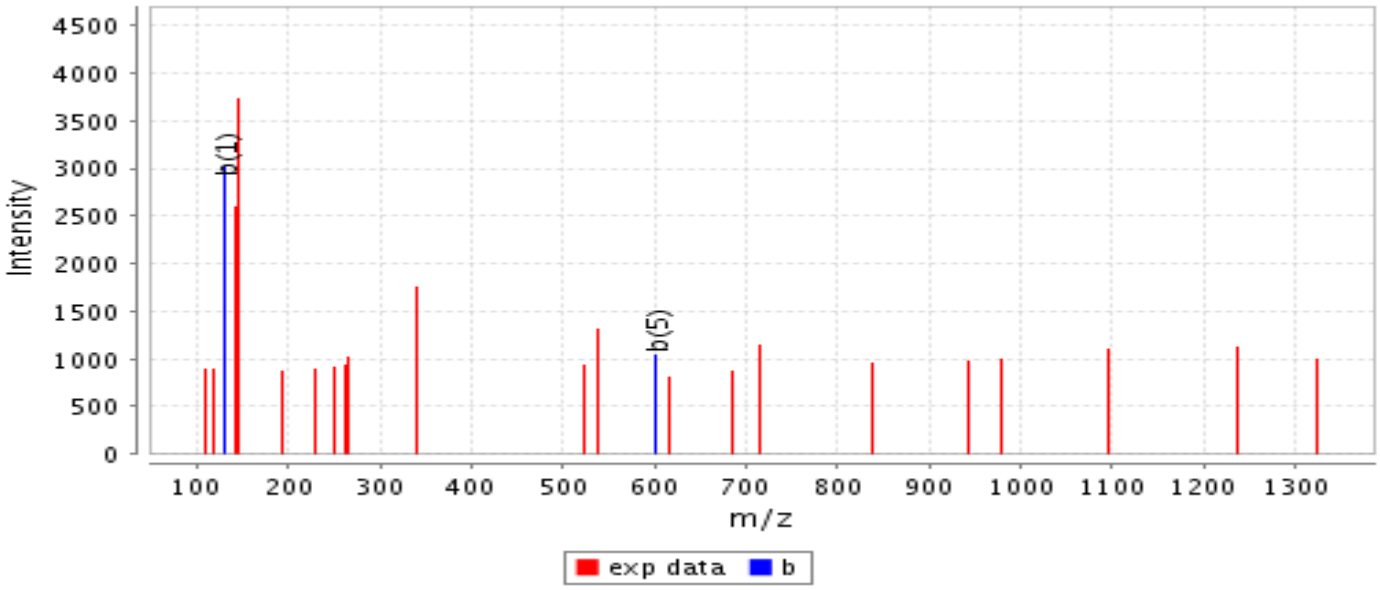
Serotransferrin A/VPD**K(**^{12}**Glu**$_6$**)**TVRWCAVSE/H [M+4H]$^{4+}$ 494.48 m/z



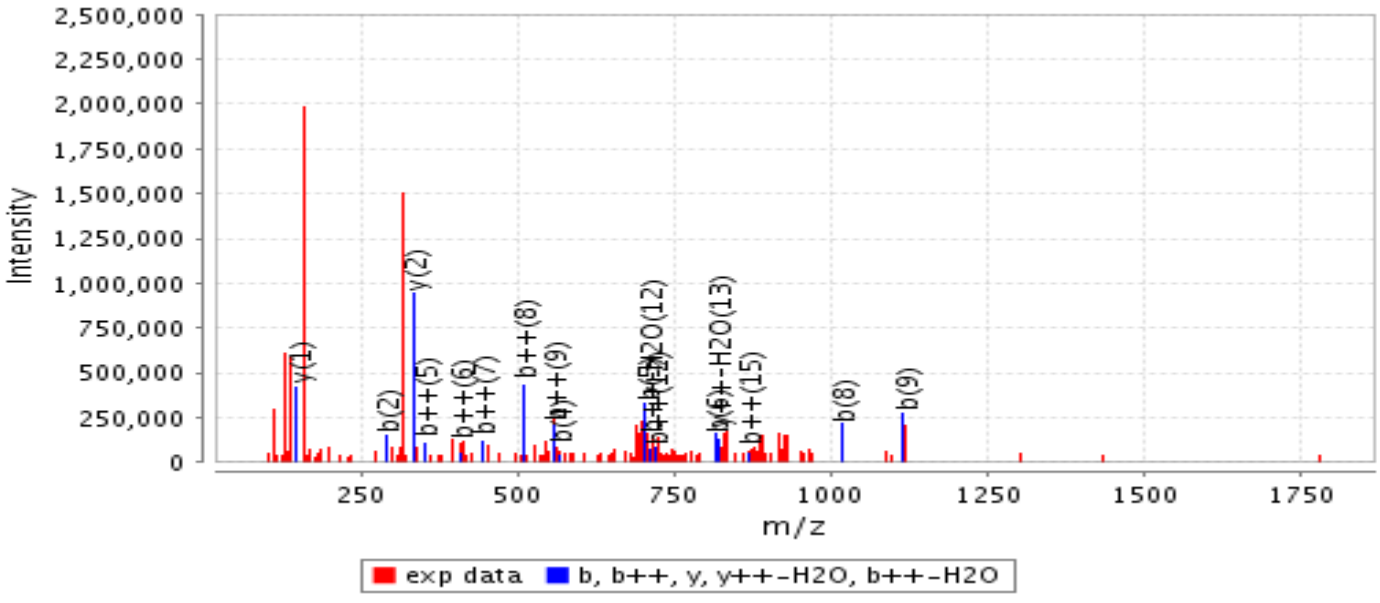
Serotransferrin E/Y**K(**^{12}**Glu**$_6$**)**DCHLAQVPSHTVVARSMGGKEDLIWE/L [M+5H]$^{5+}$ 678.53 m/z



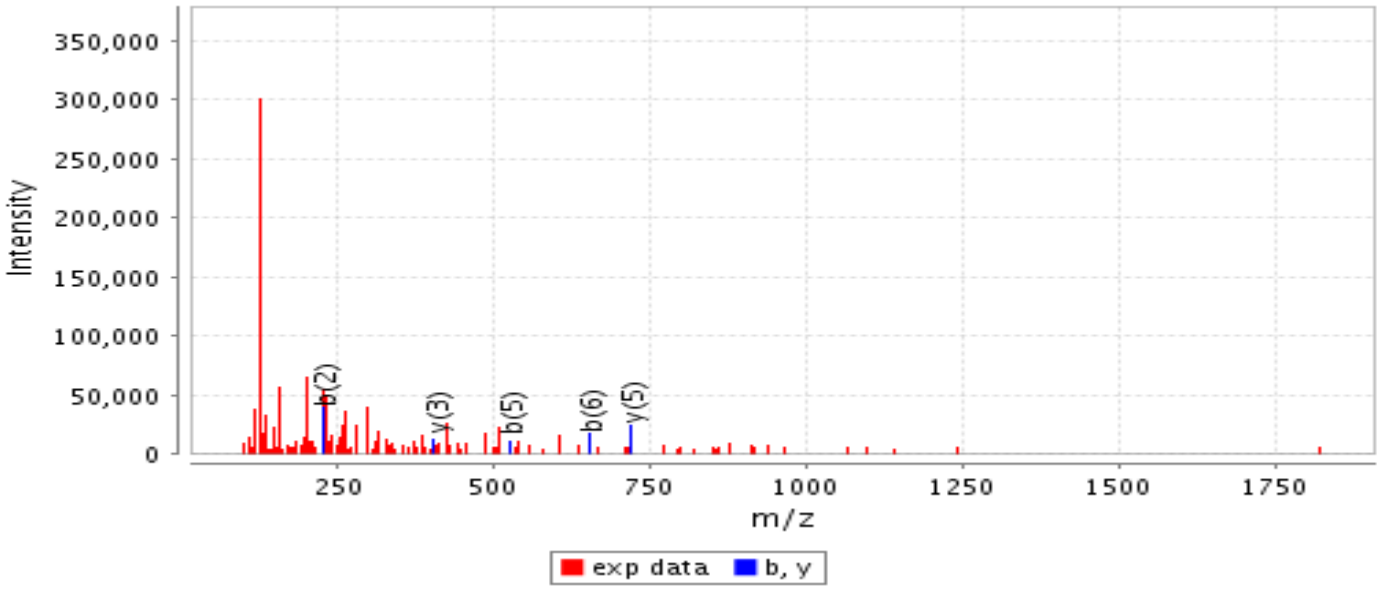
Titin R/EVSRKTWT**K(¹²Glu$_6$)**VMD/F [M+3H]$^{3+}$ 547.94 m/z



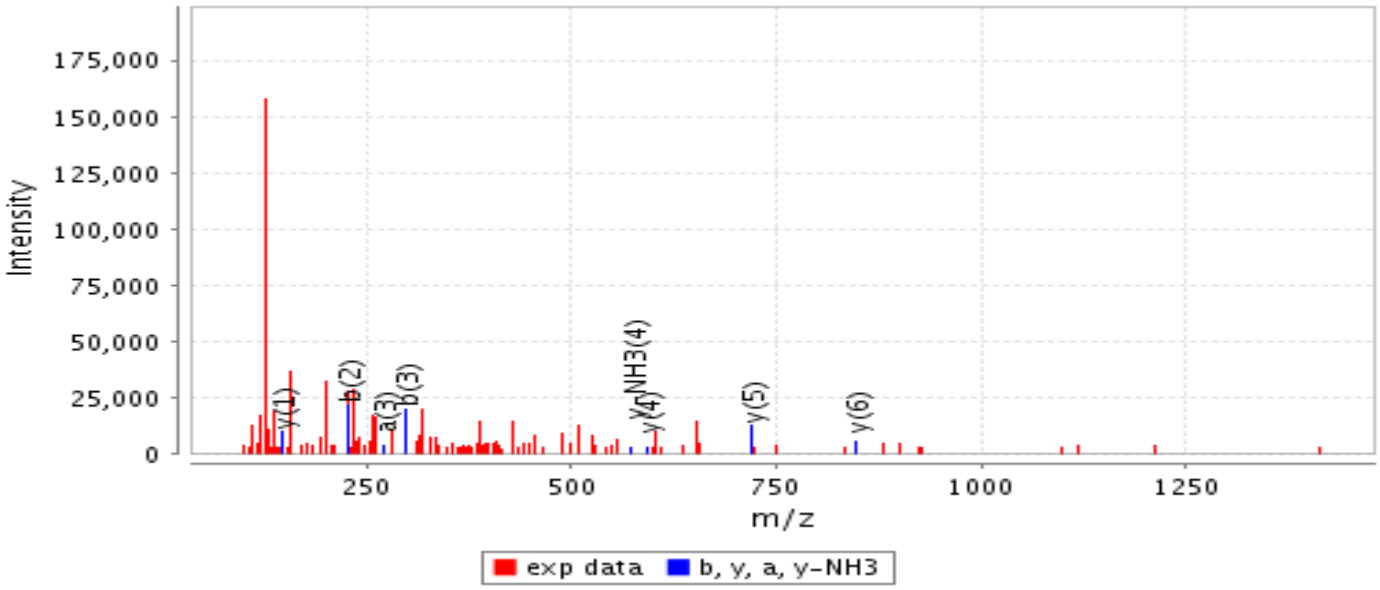
Haptoglobin β chain E/HSV**R(¹²Glu$_6$)**YQCKNYYKLRTE/G [M+4H]$^{4+}$ 537.02 m/z



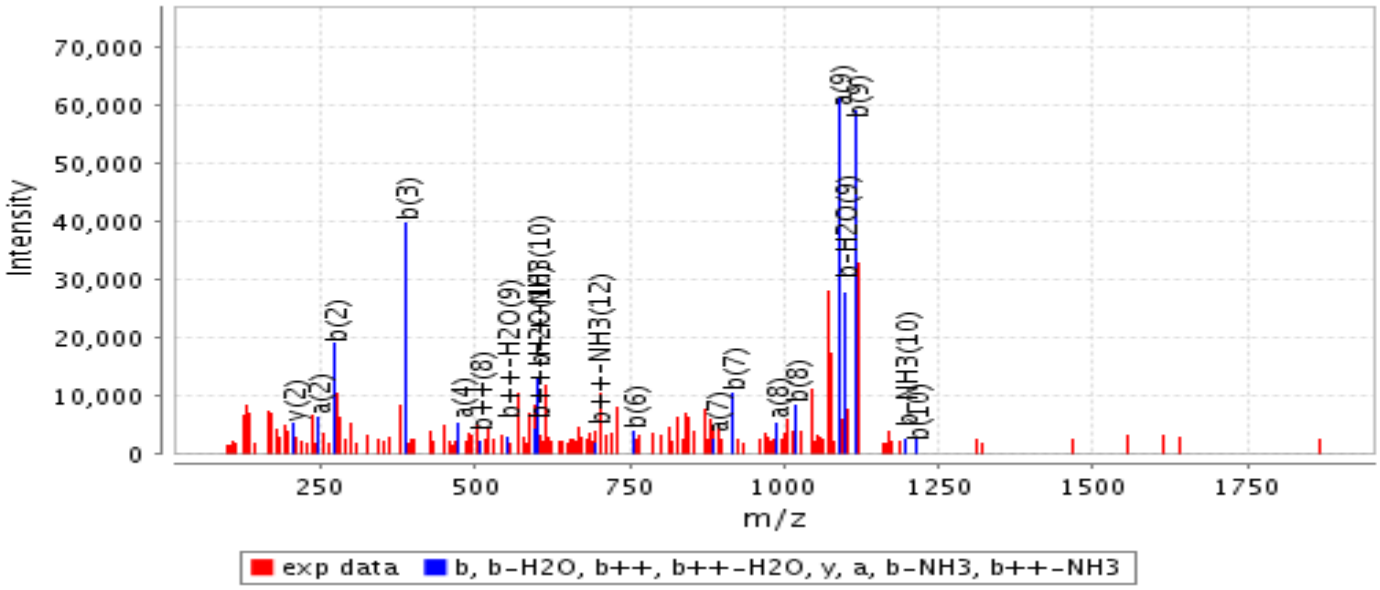
Apolipoprotein A-I E/V**K(^{12}Glu$_6$)**AKVQPYLDDFQKKWQEE/M [M+3H]$^{3+}$ 847.77 m/z



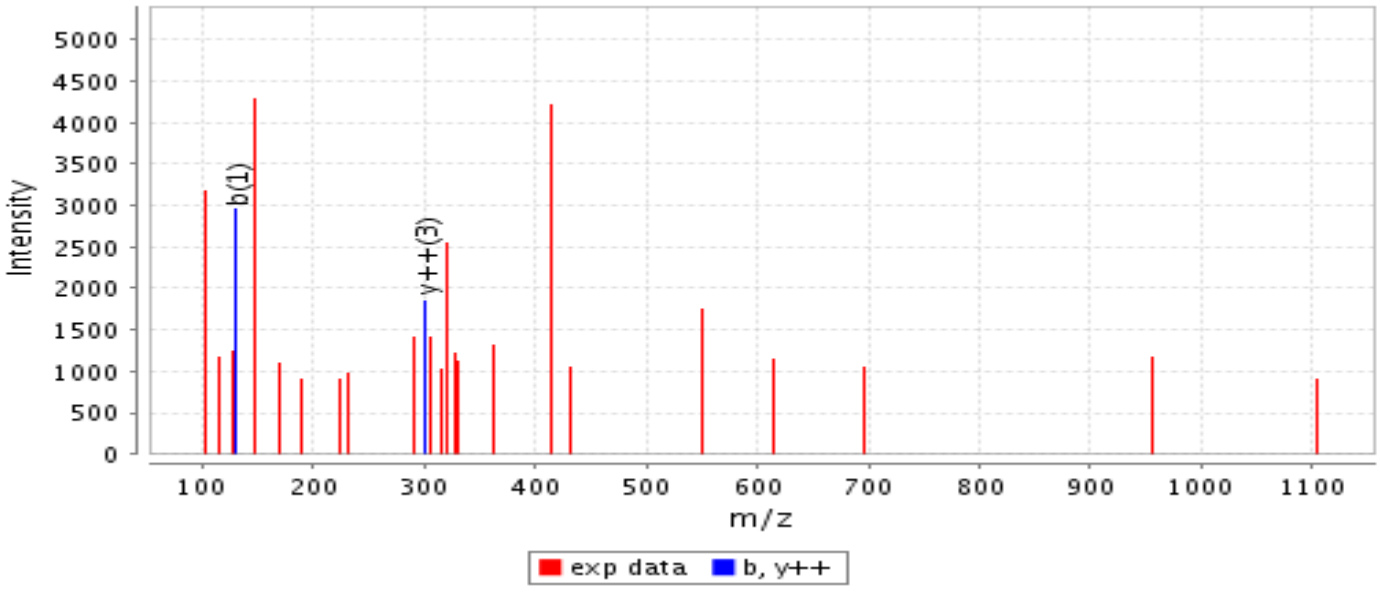
Apolipoprotein A-I E/VKA**K(^{12}Glu$_6$)**VQPYLDDFQKKWQEE/M [M+4H]$^{4+}$ 847.77 m/z



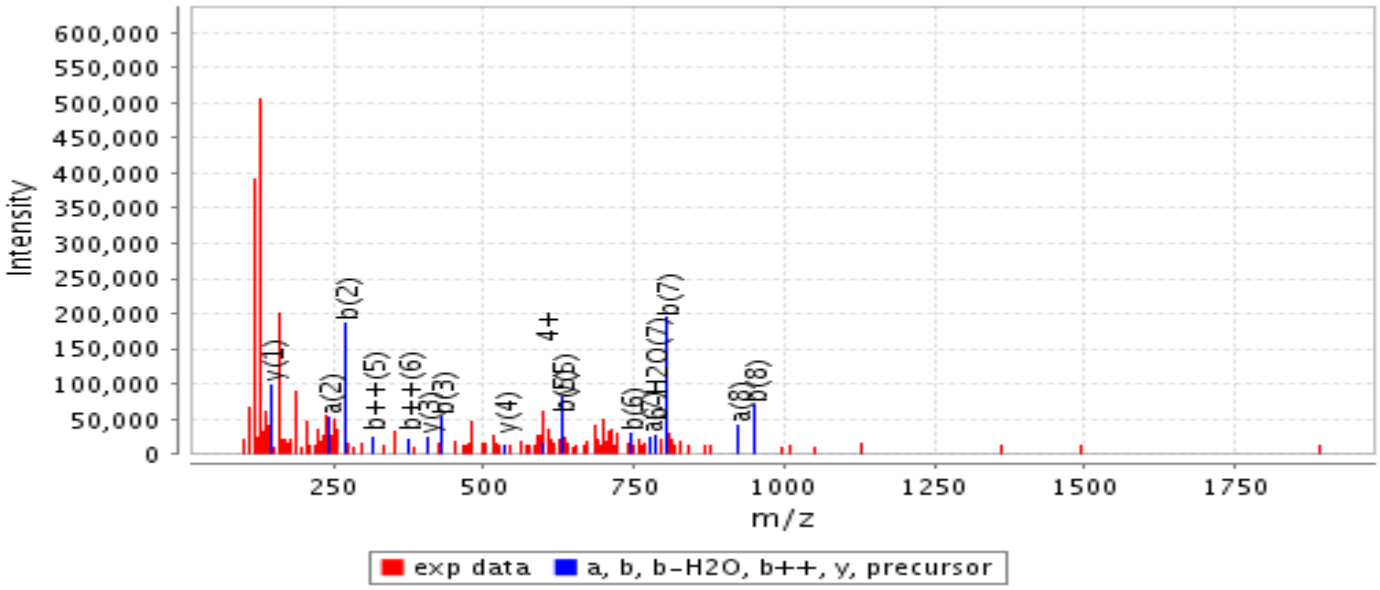
Plasmin light chain B E/LCDIPRCTTPPPSSGPTYQCL**K(12Glu6)**GTGE/N [M+3H]3+ 1018.80 m/z



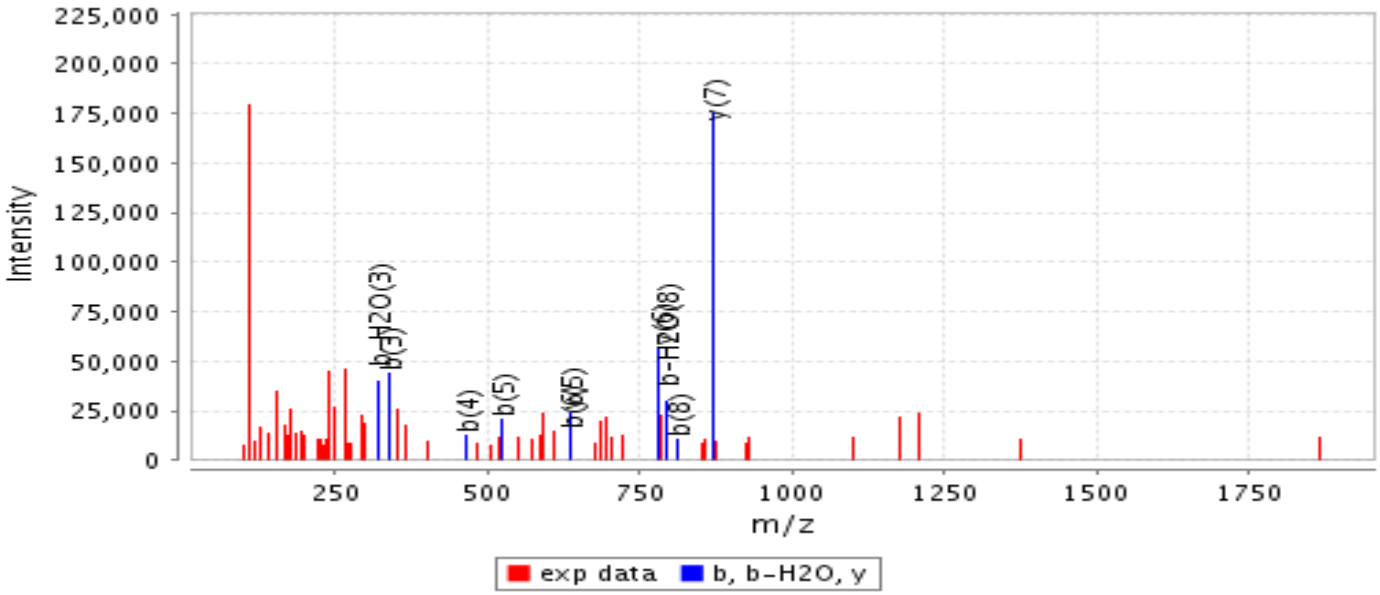
Girdin S/EVS**R(12Glu6)**Y**K(12Glu6)**E/R [M+3H]3+ 412.19 m/z



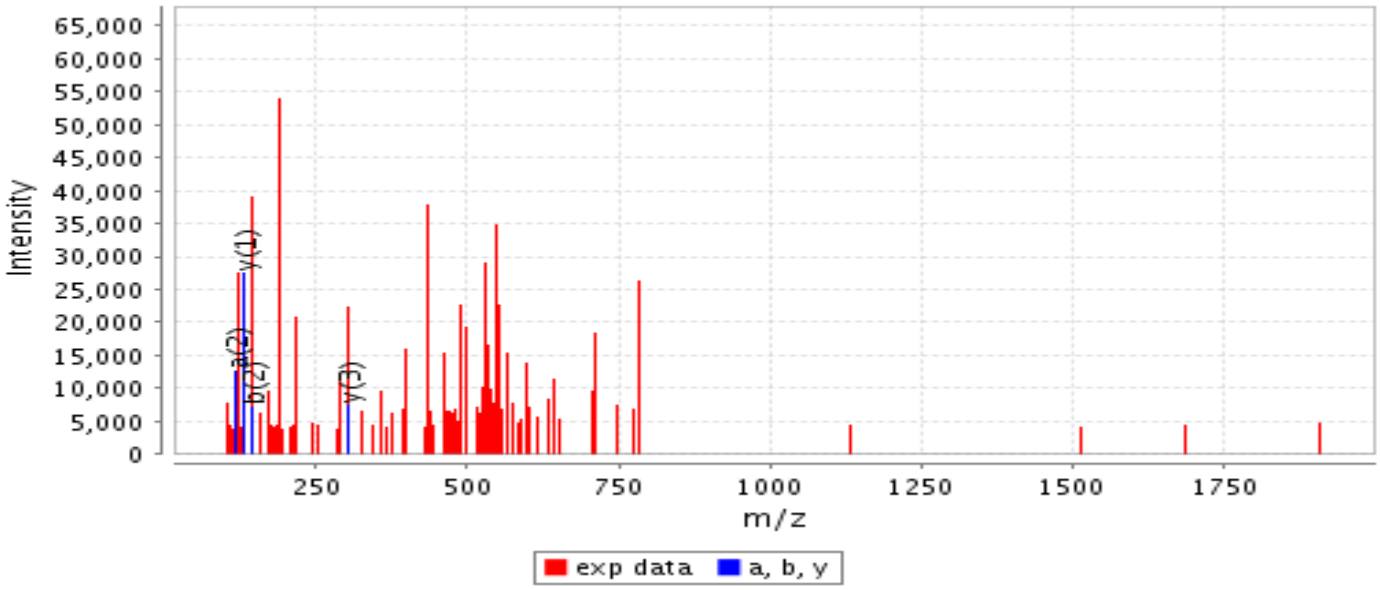
Complement factor H E/MHCSDDGFWS**K(^{12}Glu$_6$)**EKPKCVE/I [M+4H]$^{4+}$ 601.26 m/z



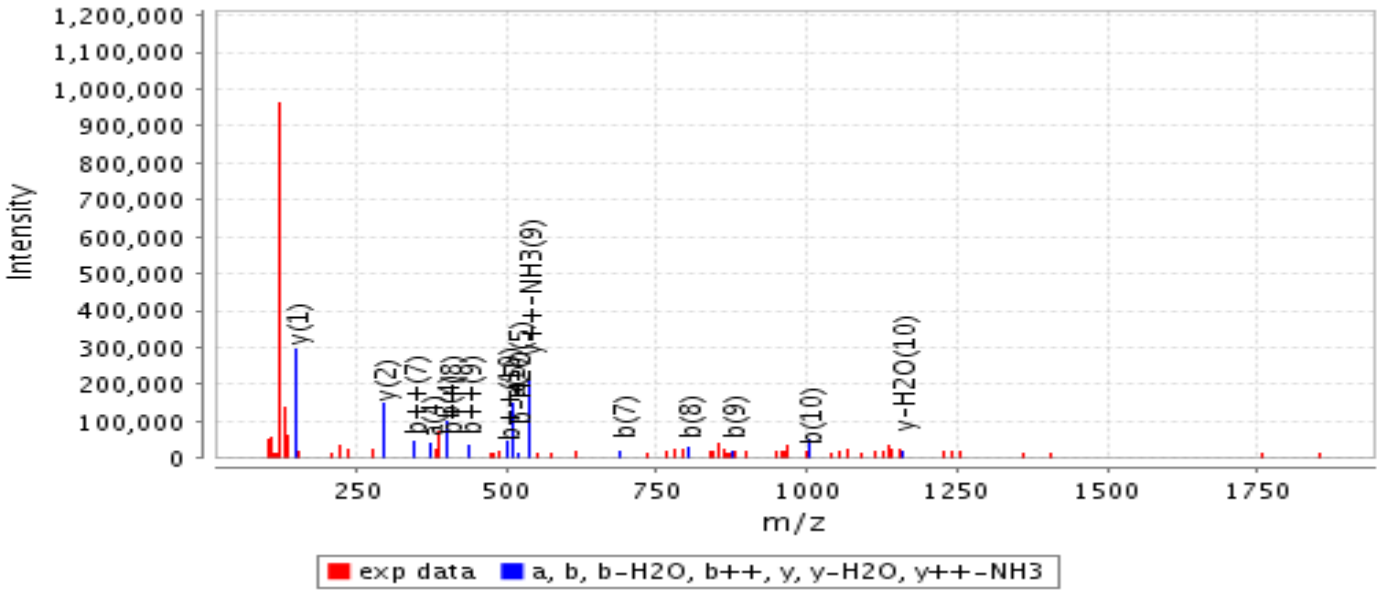
Ig κ chain C region E/VTHQGLSSPVT**K(^{12}Glu$_6$)**SFNRGEC/- [M+3H]$^{3+}$ 756.03 m/z



Nebulette D/AAY**K(**^{12}**Glu**$_6$**)**GVHPHIVEMDRRPGII/V $[M+4H]^{4+}$ 601.26 m/z



Fibrinopeptide A E/SSSHHPGIAEFPS**R**GKSSSYS**K(**^{12}**Glu**$_6$**)**QFTSSTSYNRGDSTFE/S $[M+5H]^{5+}$ 861.39 m/z



Protein max F/QSAAD**K(**^{12}**Glu**$_6$**)**RAHHNALERKRRD/H [M+5H]$^{5+}$ 485.06 m/z