

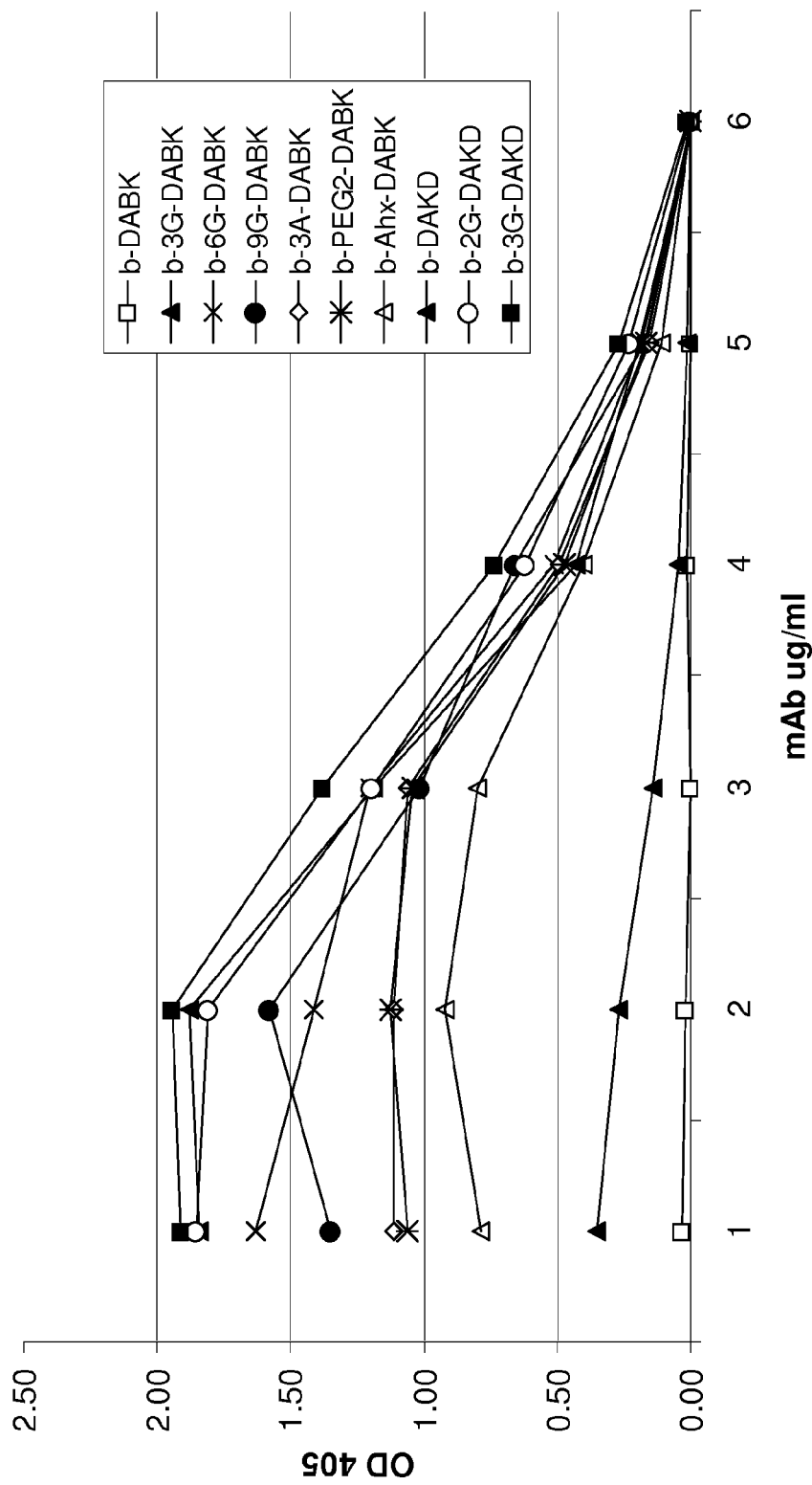


Figure 1

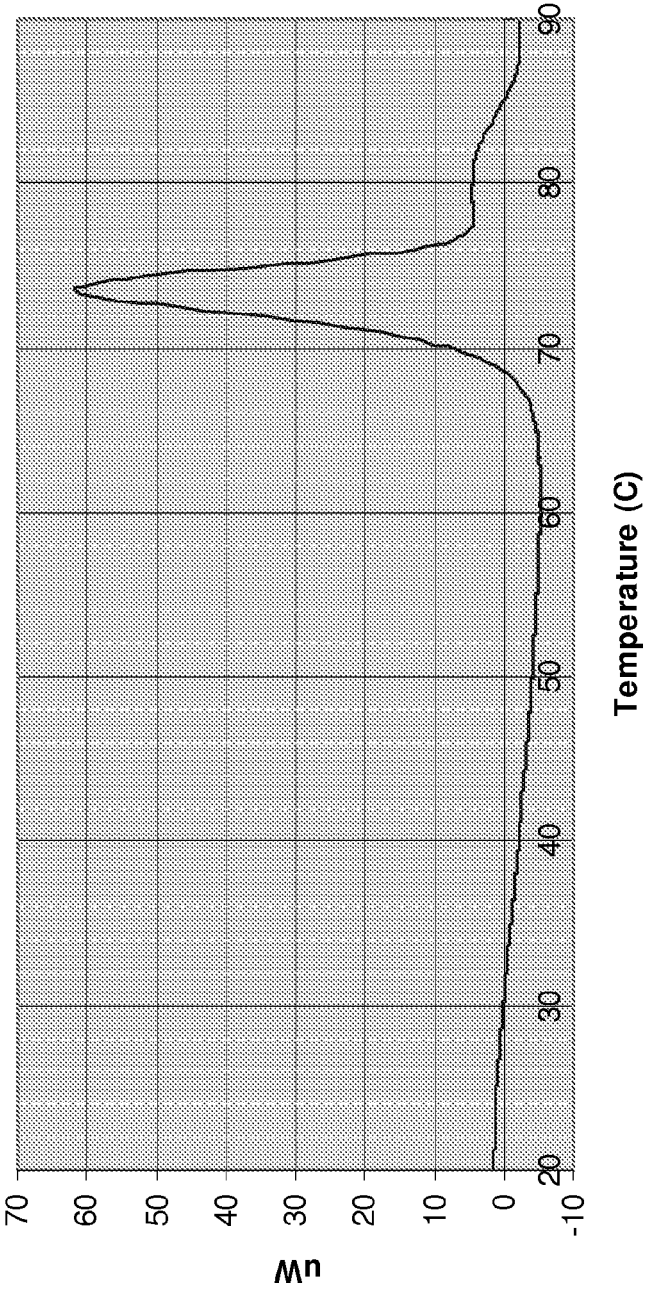


Figure 2

Heavy Chain Alignment

Parental: EIQLQQSGPELVKPGTSVKVCKASGYSFTDYNIIYWKQSHGKSLEWIGYFDPYNGNTGY
 +IQL QSG E+ KPG SVKVCKASGYSFTDYNIIYVW+Q+ G+ LEWIGYFDPYNGNTGY

Humanized: QIQLVQSGAEVKKPGASVKVCKASGYSFTDYNIIYWVRQAPGQGLEWIGYFDPYNGNTGY

Parental: NQKFRGKATLTVDKSSSTAFMHLSSLTSDDSAVYVCANYIRYDDHAMDYWGQGSTVTVSS
 NQKFRG+ATLTVDKS+STA+M L SL SDD+AVYVCANYIRYDDHAMDYWGQGT VTVSS

Humanized: NQKFRGRATLTVDKSTSTAYMELRSLRSDDTAVYVCANYIRYDDHAMDYWGQGTLVTVSS

Light Chain Alignment

Parental: DIVMSQSPSSLAVSVGEKVTMSCKSSQSLLYSSNQKNYLAWYQQKPGQSPKPLIYWASTR
 DIVM+QSP SLAVS+GE+ T++CKSSQSLLYSSNQKNYLAWYQQKPGQ PKPLIYWASTR

Humanized: DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKPLIYWASTR

Parental: ESGVDPDRFTGSGSGTDFTLTISSVKAEDLAIYQCQQYYSYPWTFGGGKLEIK
 ESGVDPDRF+GSGSGTDFTLTIS++AED+A+YQCQQYYSYPWTFG GTK+EIK

Humanized: ESGVDPDRFSGSGSGTDFTLTISLQAEDVAVYQCQQYYSYPWTFGGGKVEIK

Figure 3

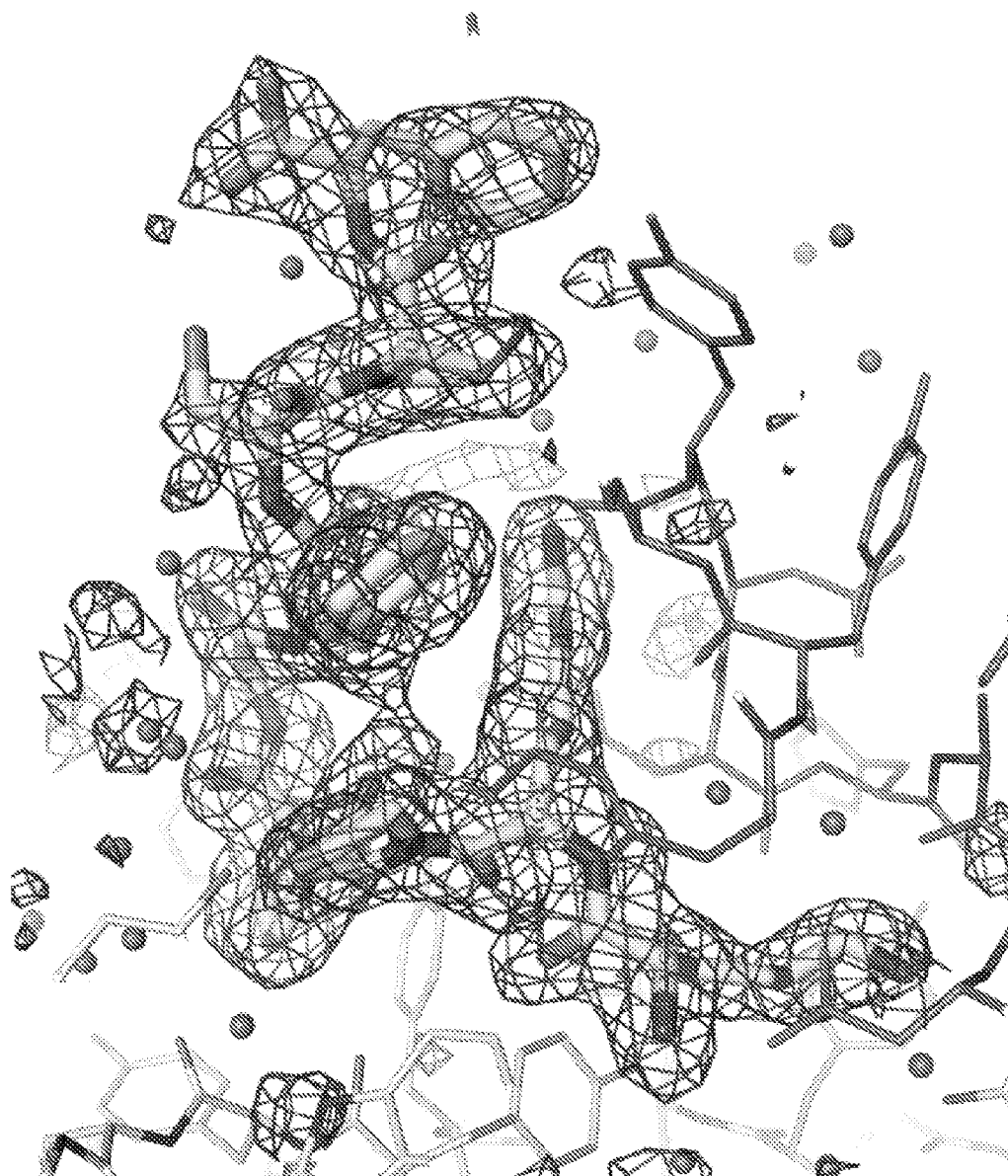


Figure 4

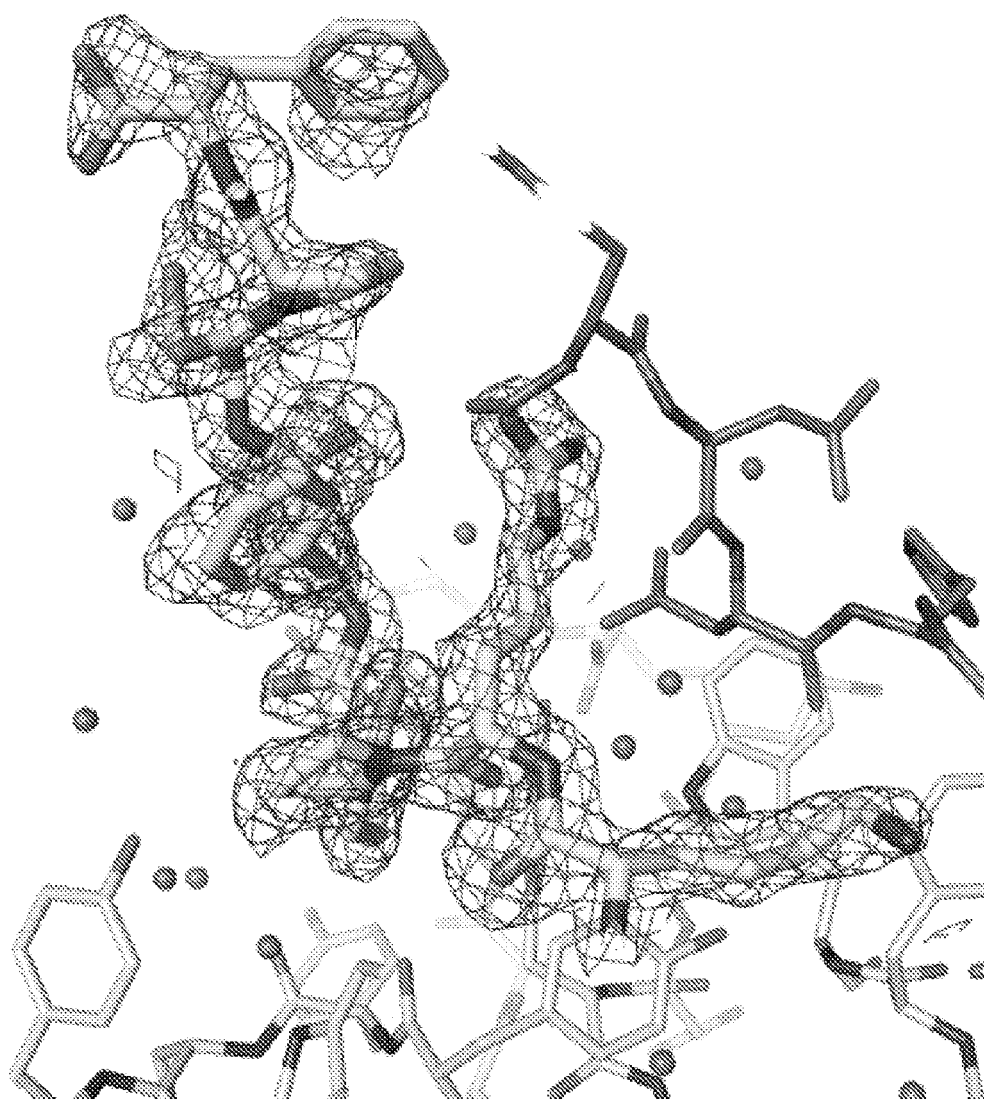


Figure 5

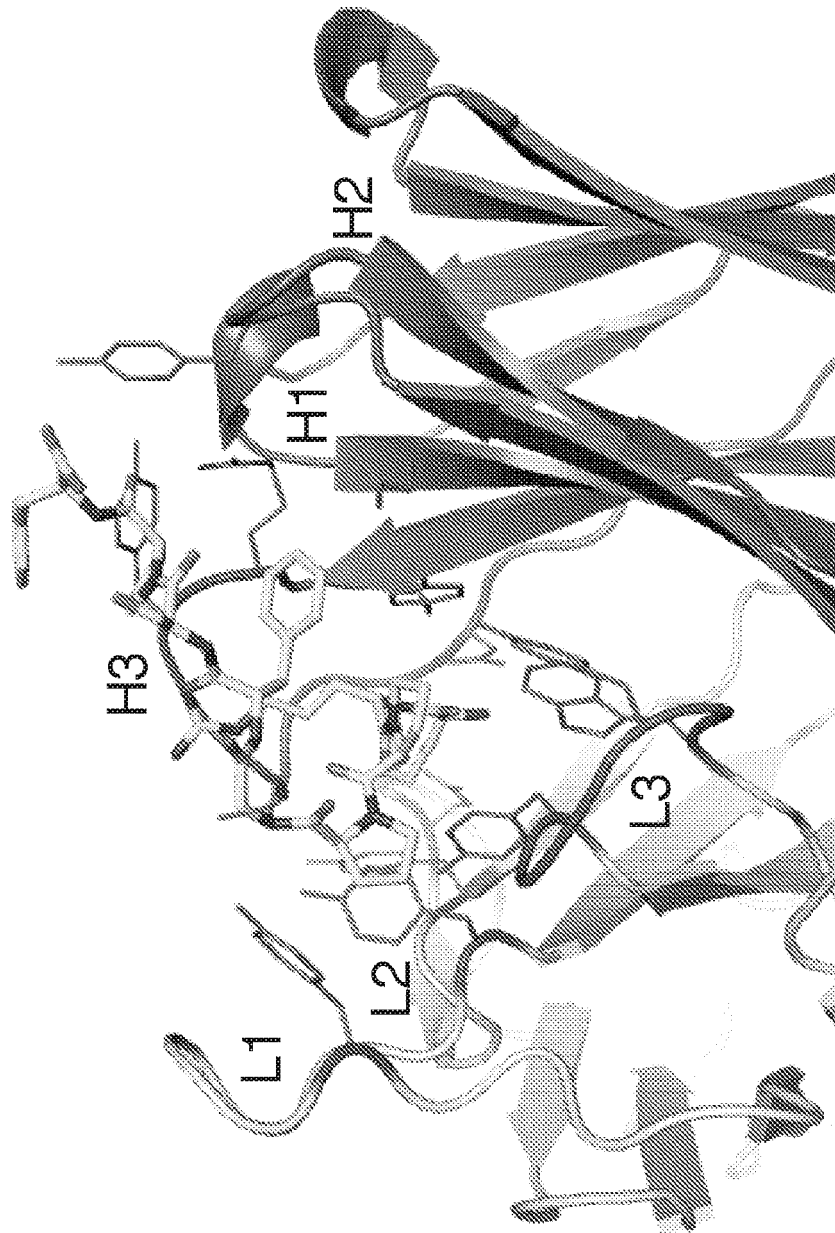
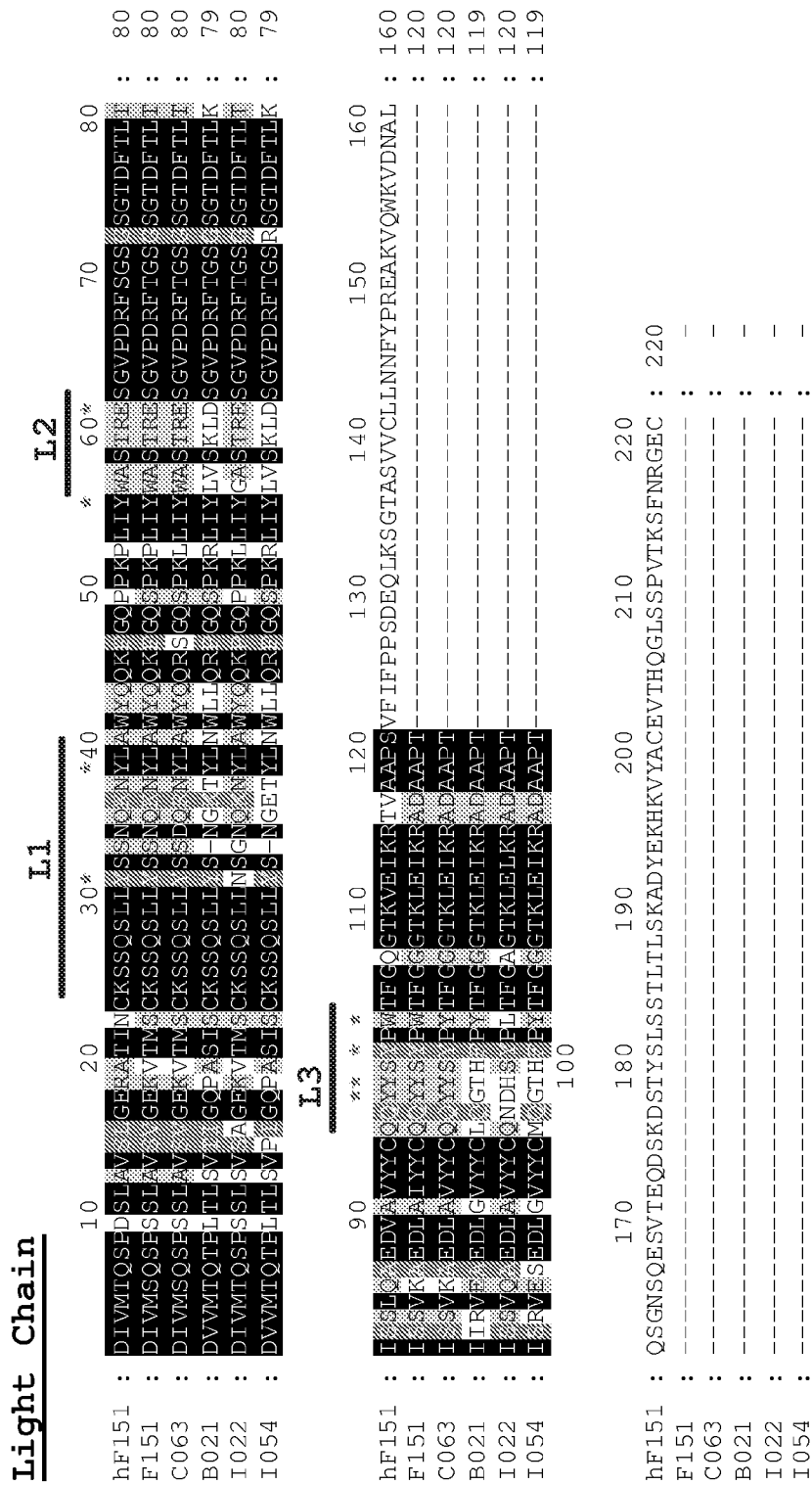


Figure 6



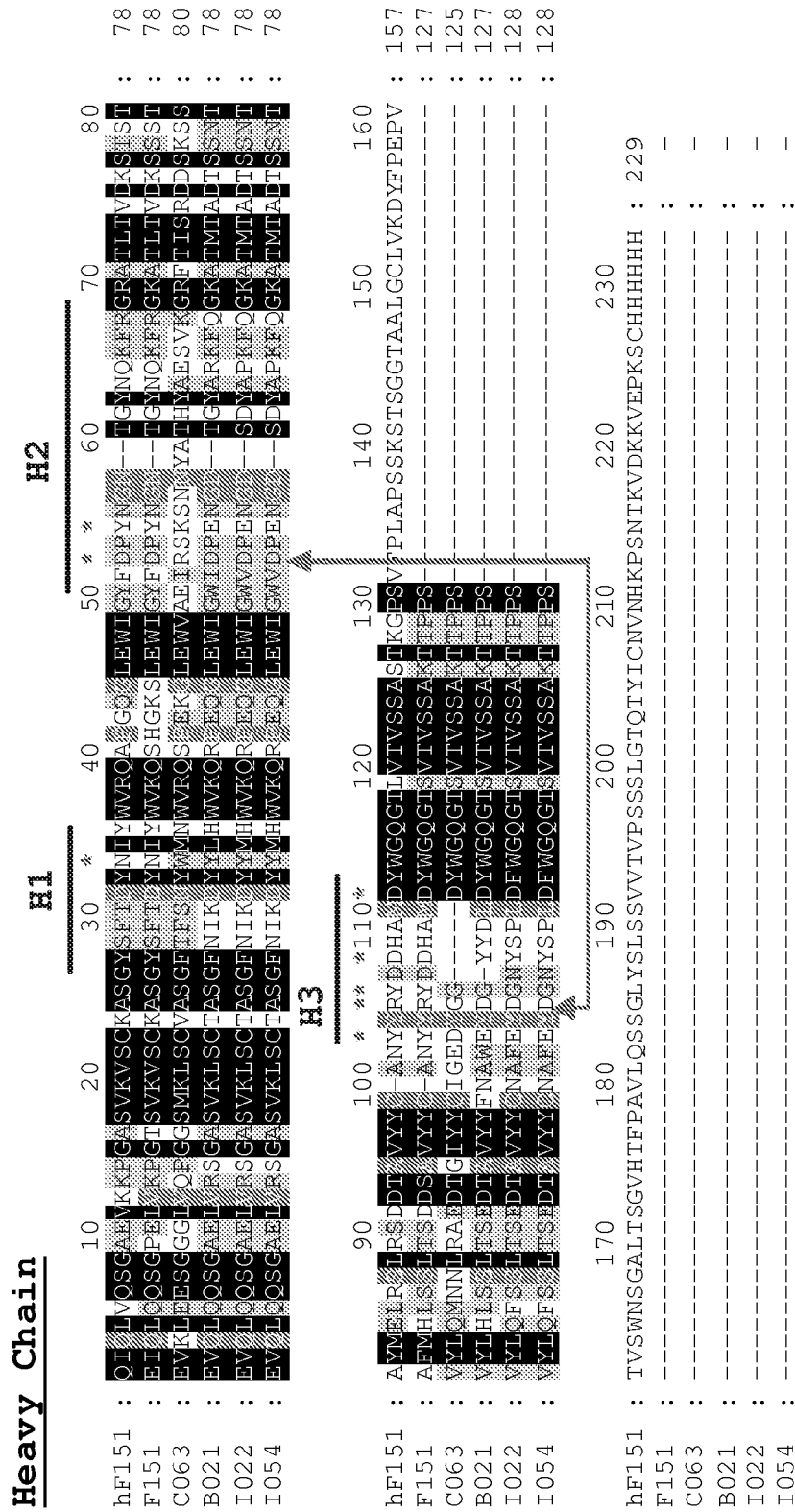


Figure 8

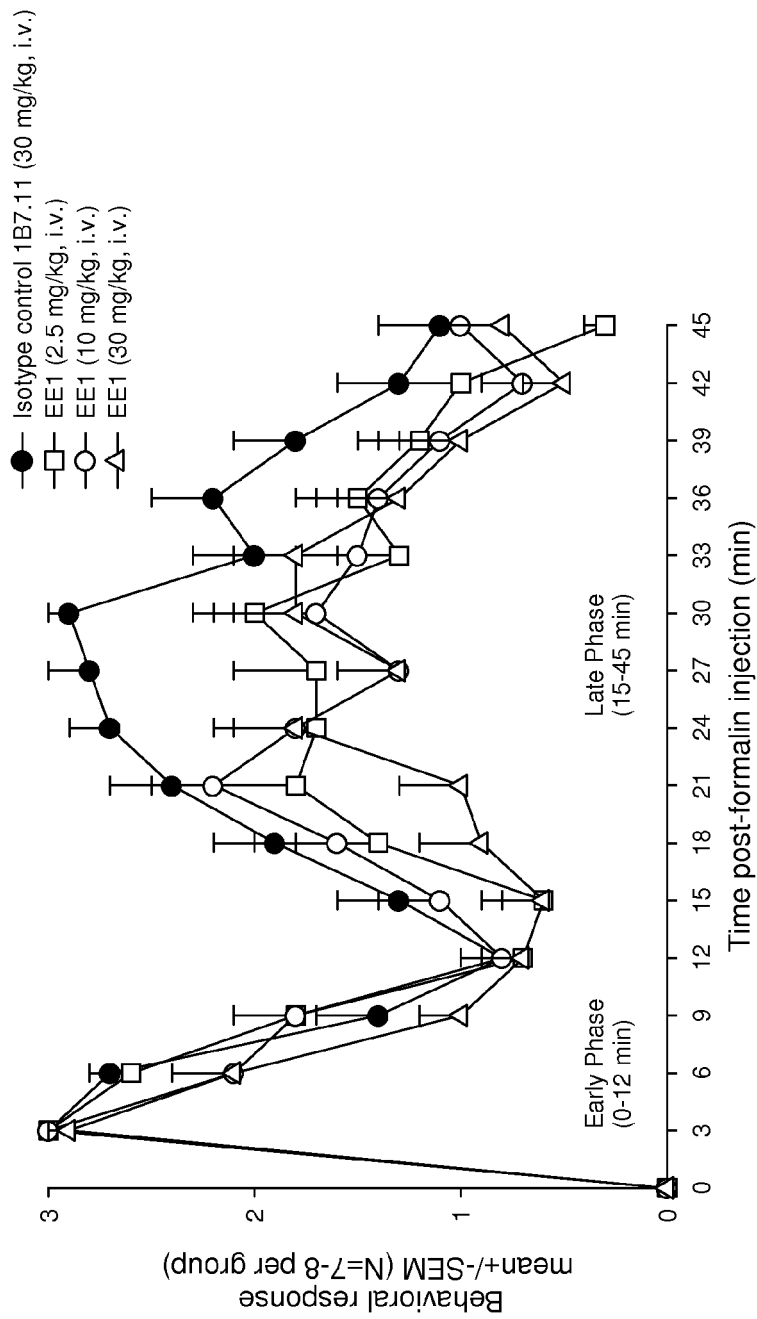


Figure 9

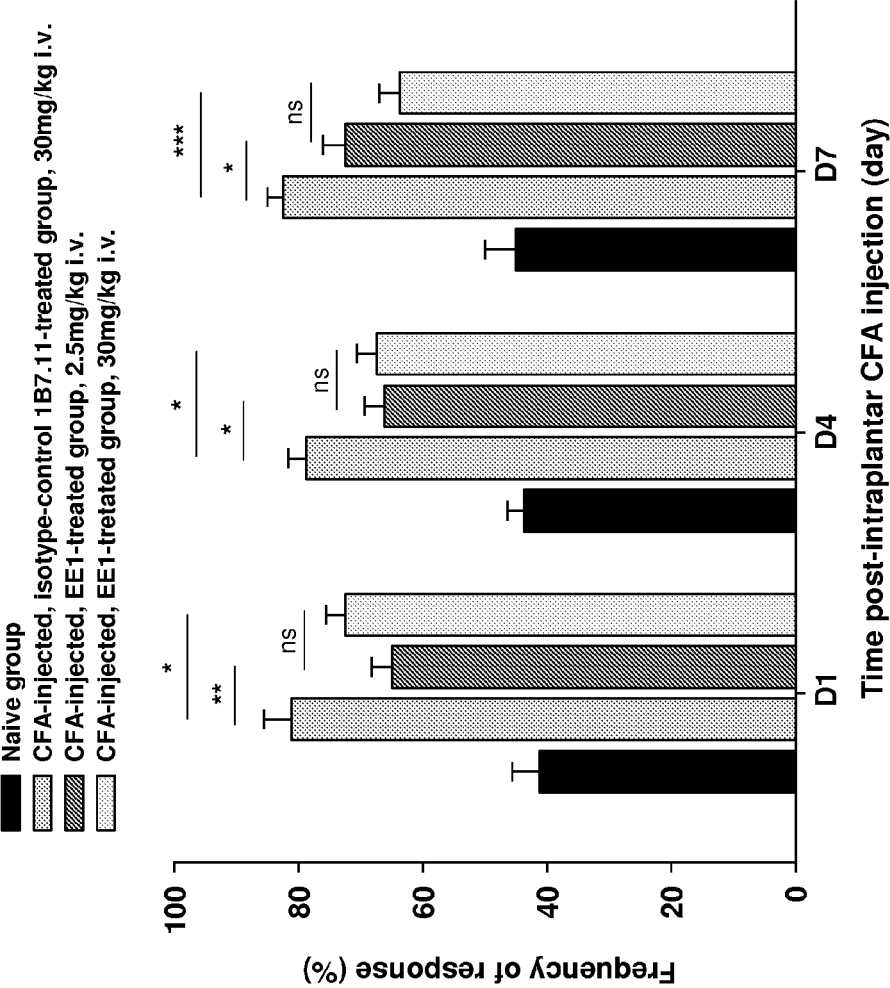


Figure 10

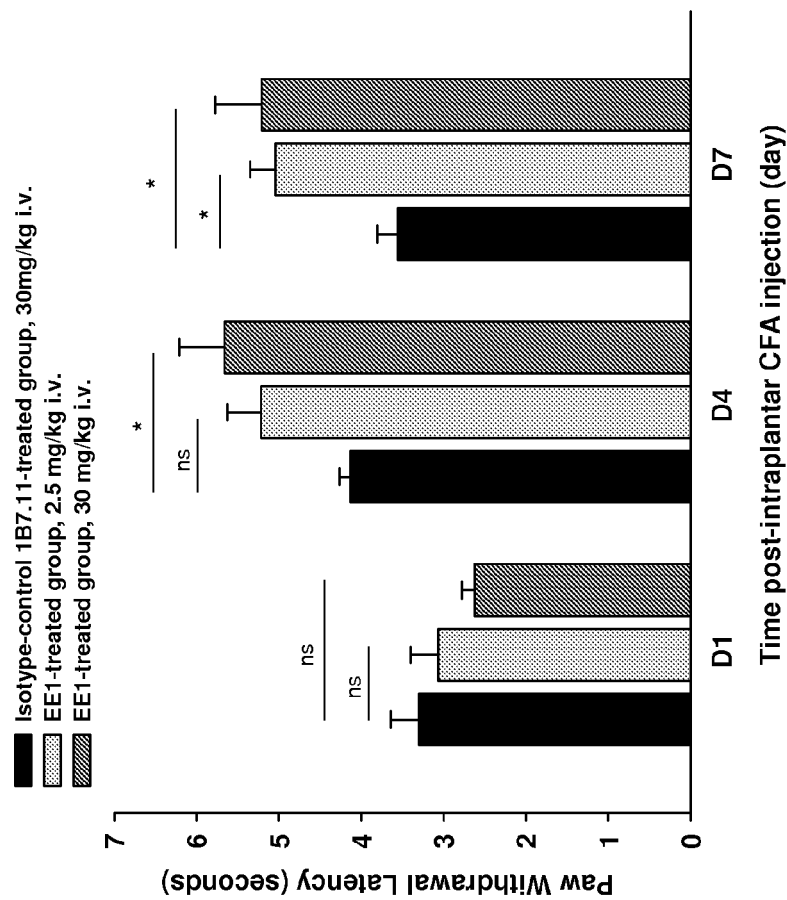


Figure 11

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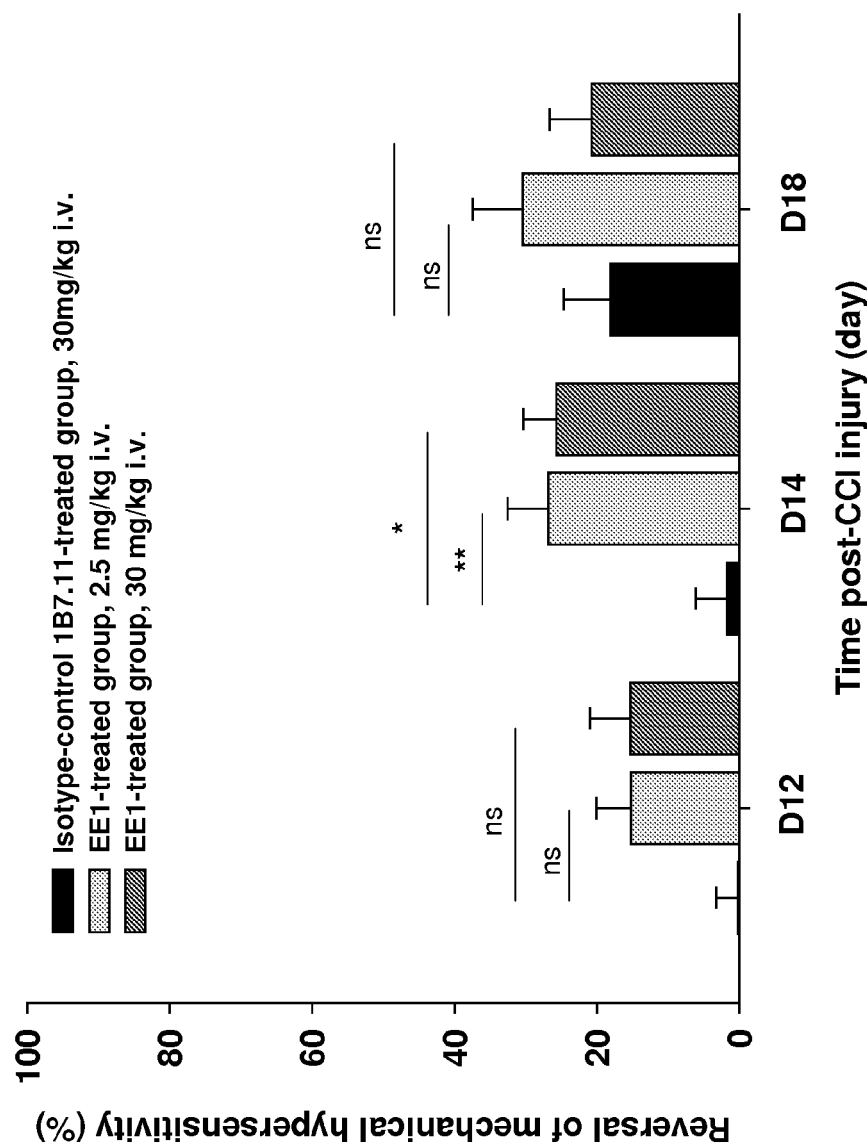


Figure 12

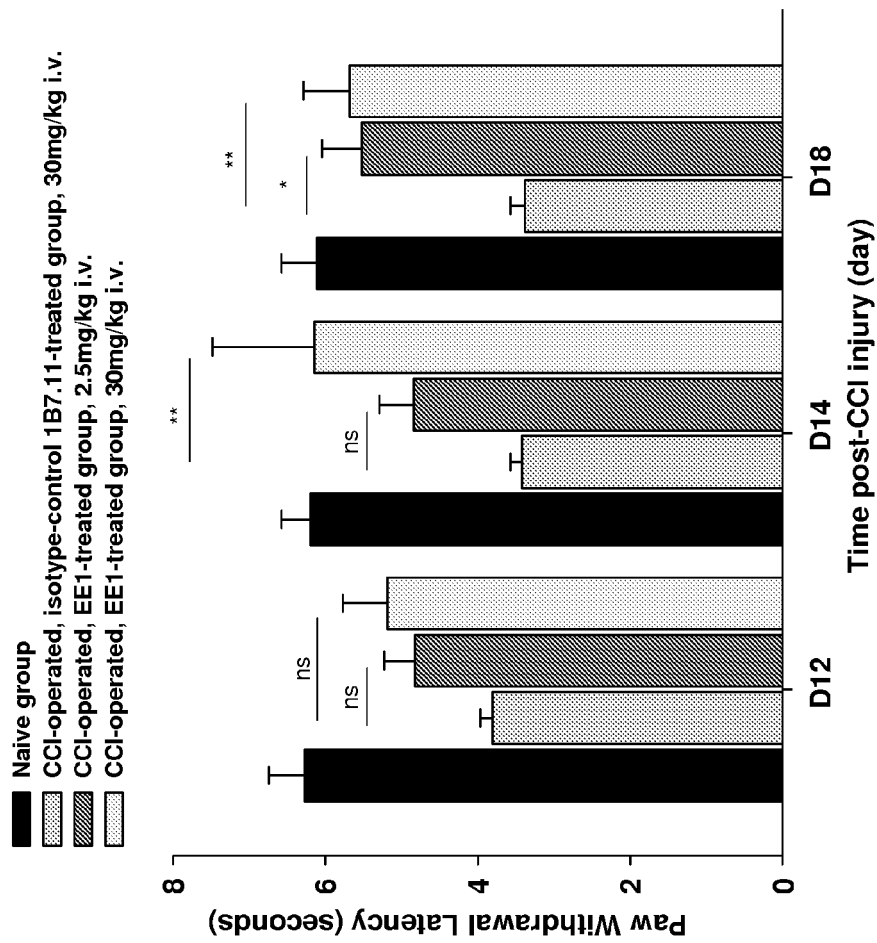


Figure 13

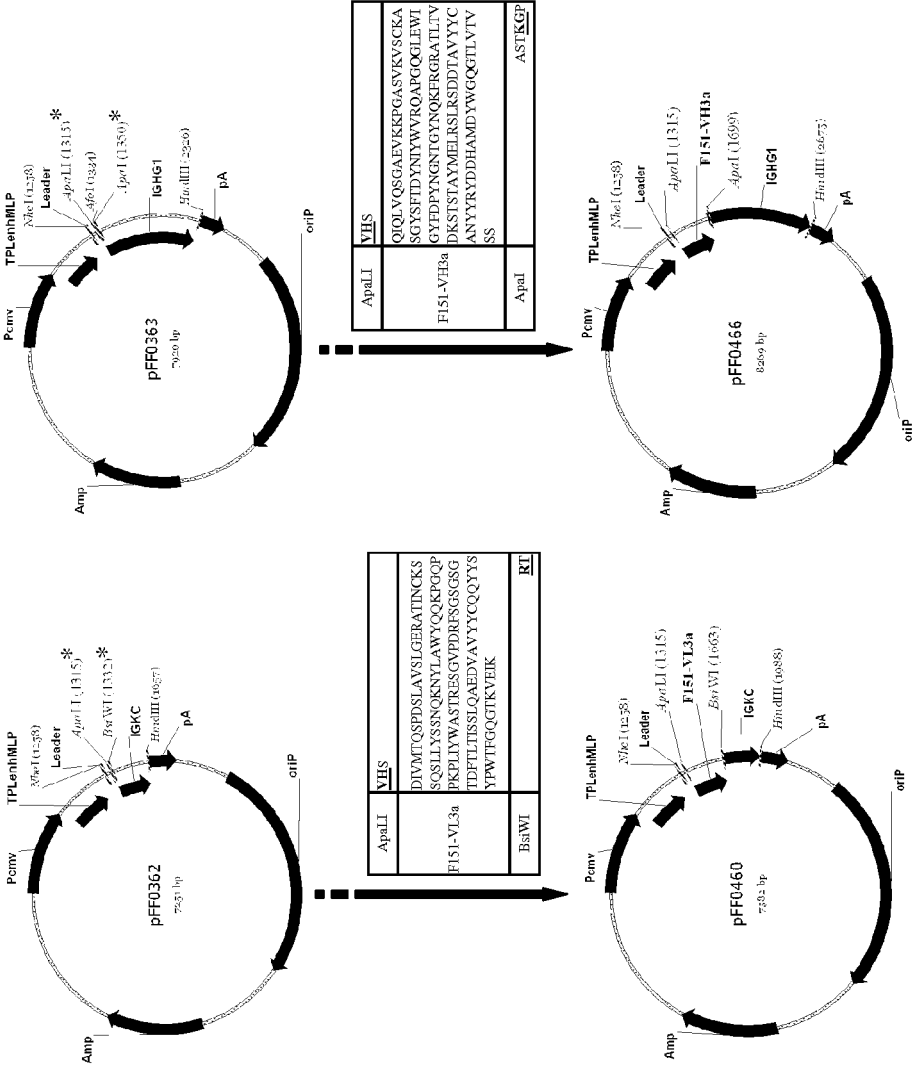


Figure 14

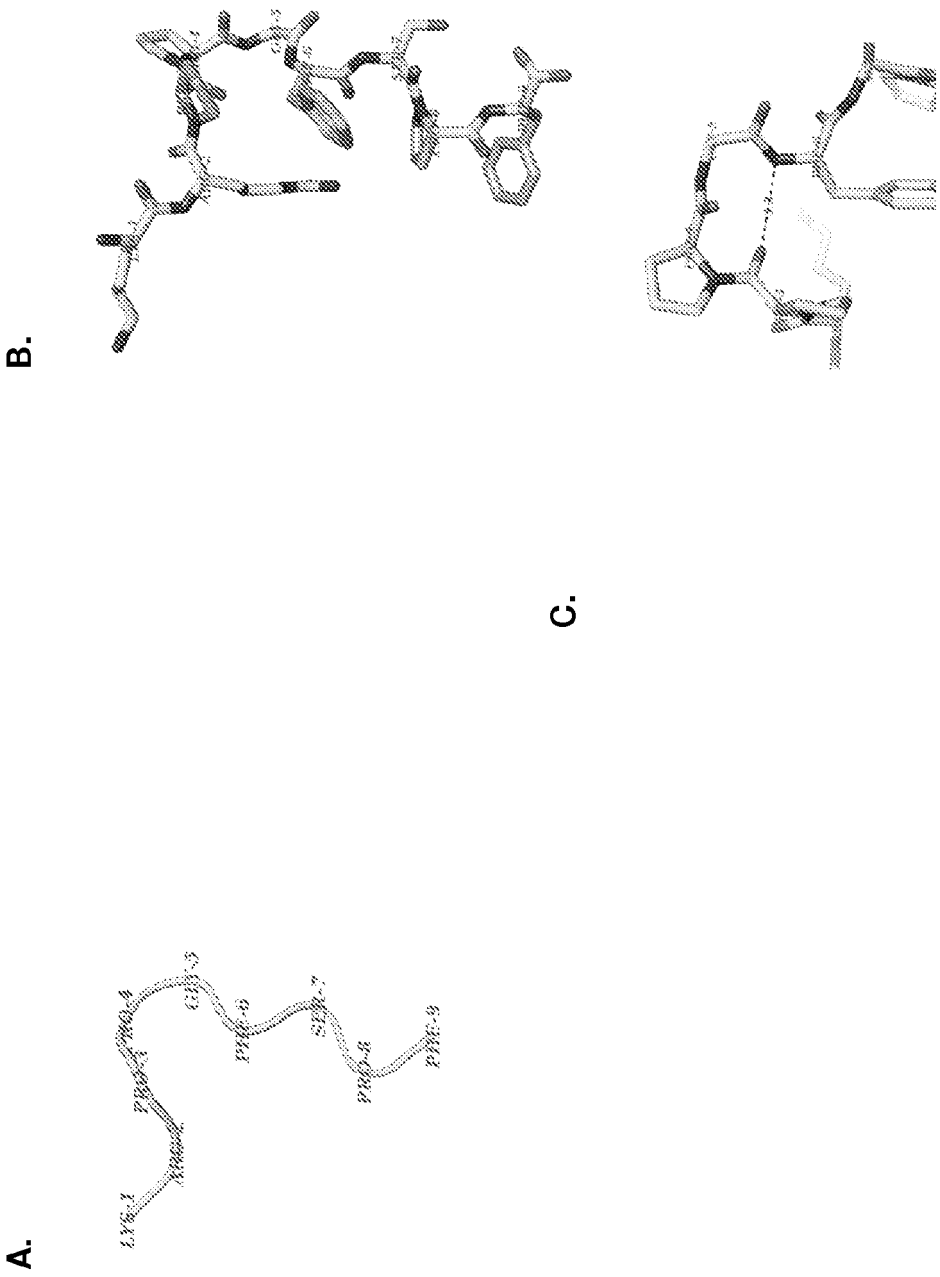


Figure 17