

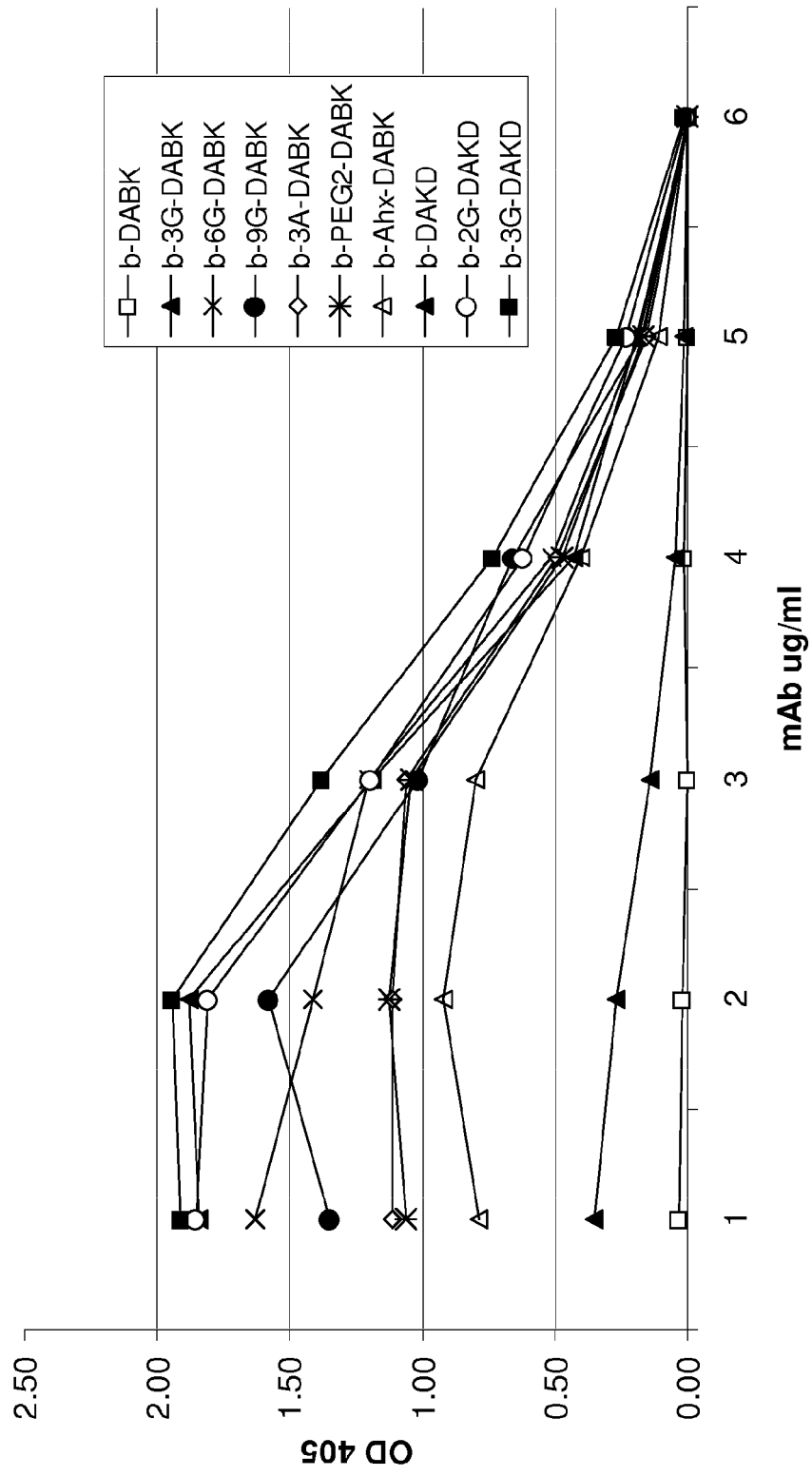


Figure 1

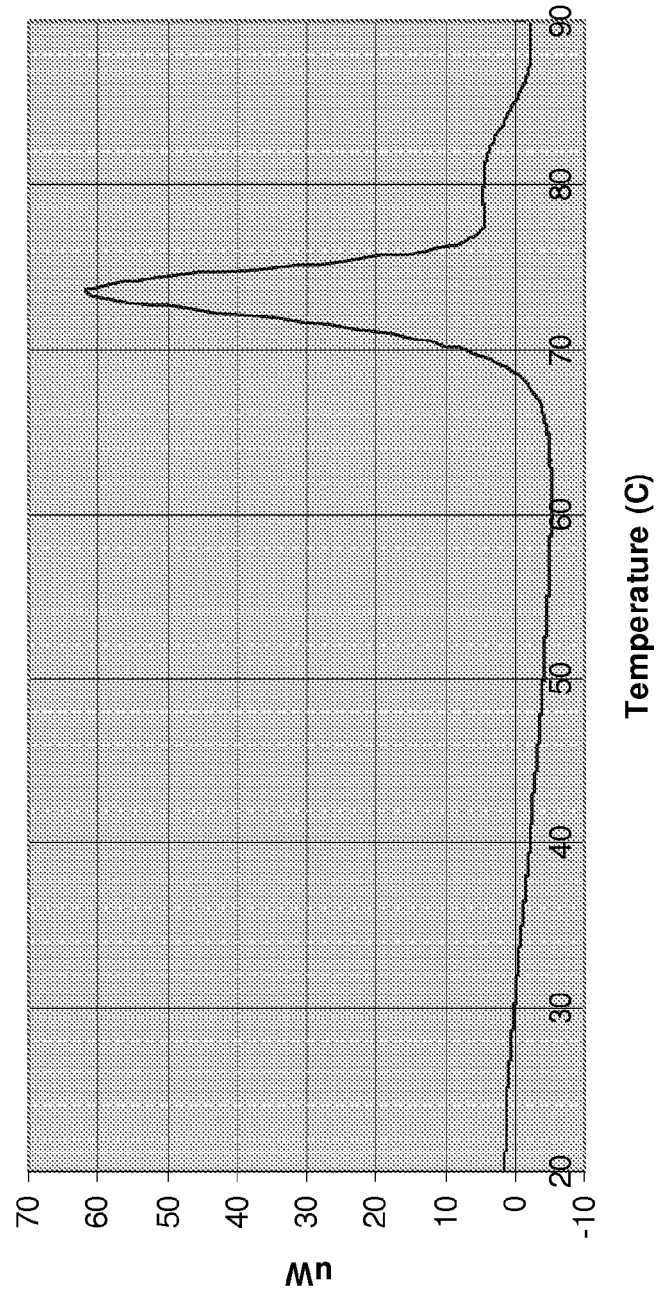


Figure 2

Heavy Chain Alignment

Parental: EIQLQSGPELVKPGTSVKVCKASGYSTDYNIYWKQSHGKSLEWIGYFDPYNGNTGY
 +IQL QSG E+ KPG SVKVCKASGYSTDYNIYWV+Q+ G+ LEWIGYFDPYNGNTGY

Humanized: QIQLVQSGAEVKKPGASVKVCKASGYSTDYNIYWVRQAPGQGLEWIGYFDPYNGNTGY

Parental: NQKFRGKATLTVDKSSSTAFMHLSSLTSDDSAVVYCANYRYDDHAMDYWGQTSVTVSS
 NQKFRG+ATLTVDKS+STA+M L SL SDD+AVVYCANYRYDDHAMDYWGQGT VTVSS

Humanized: NQKFRGRATLTVDKSTSTAYMELRSLRSDDTAVVYCANYRYDDHAMDYWGQGTLTVTVSS

Light Chain Alignment

Parental: DIVMSQSPSSLAVSVGEKVTMSCKSSQSLLYSSNQKNYLAWYQQKPKGQSPKPLIYWASTR
 DIVM-QSP SLAVS+GE+ T++CKSSQSLLYSSNQKNYLAWYQQKPGQ PKPLIYWASTR

Humanized: DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNYLAWYQQKPGQPPKPLIYWASTR

Parental: ESGVPDRFTGSGSGTDFTLTISSVKAEDLAIYCCQQYYSYPWTFGGGKLEIK
 ESGVPDRF+GSGSGTDFTLTIS++AED+A+YCCQQYYSYPWTFG GTK+EIK

Humanized: ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVVYCQQYYSYPWTFGGGKVEIK

Figure 3

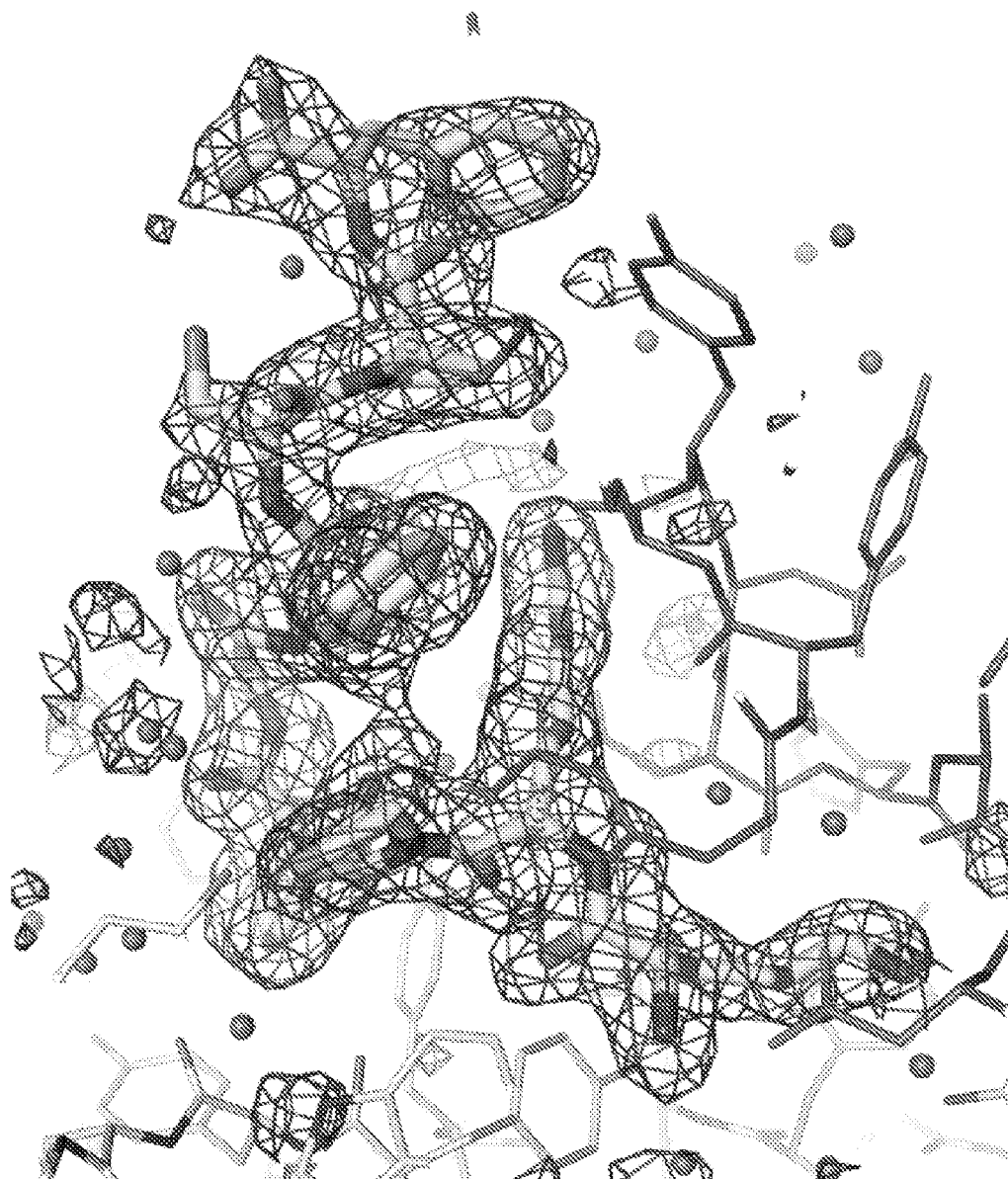


Figure 4

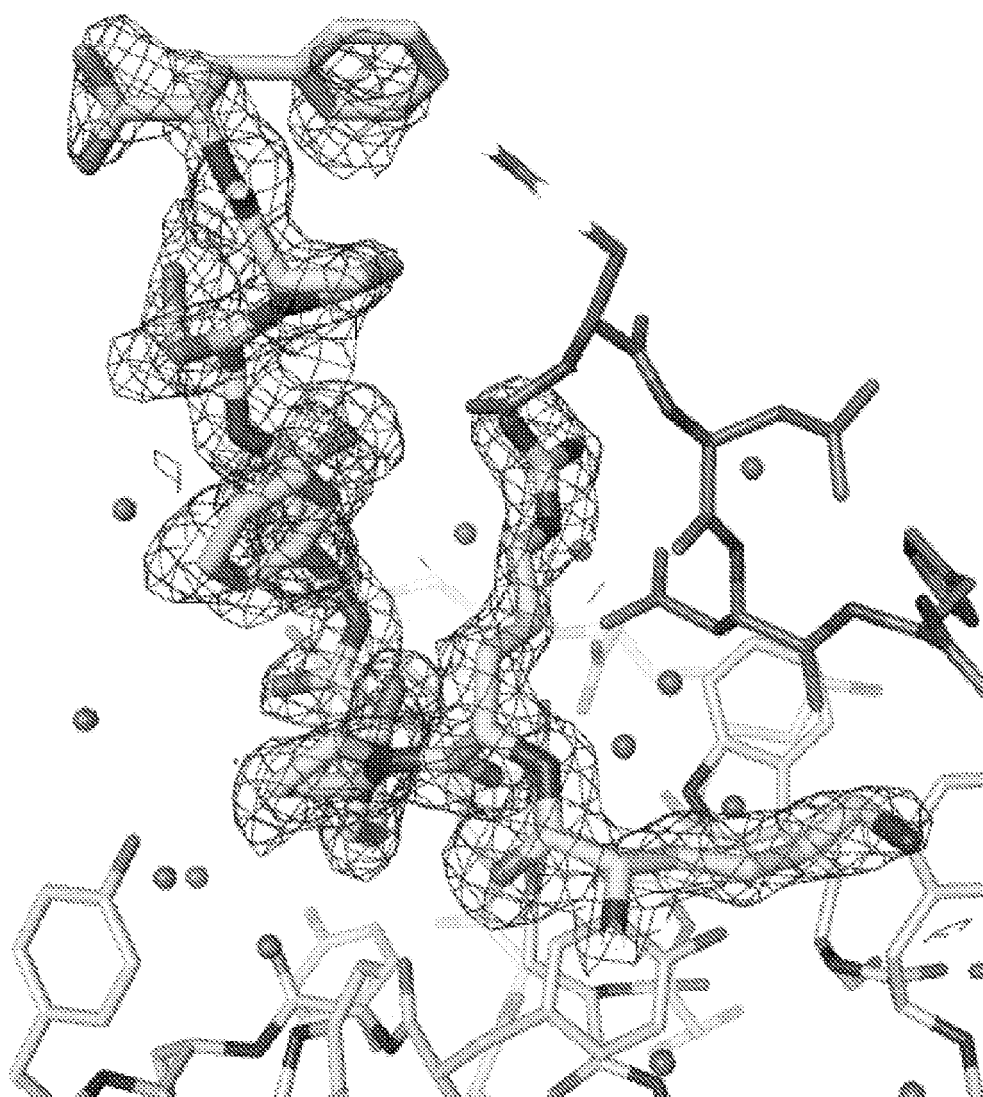


Figure 5

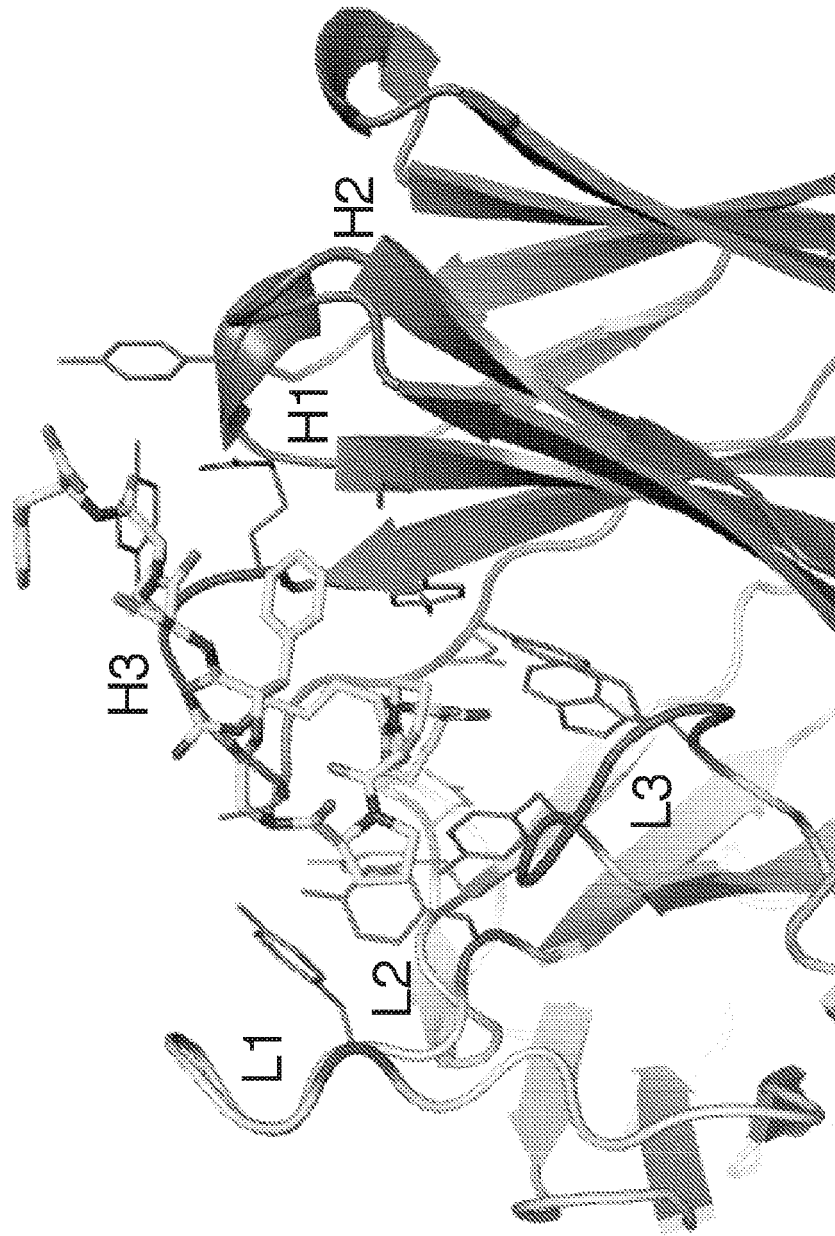


Figure 6

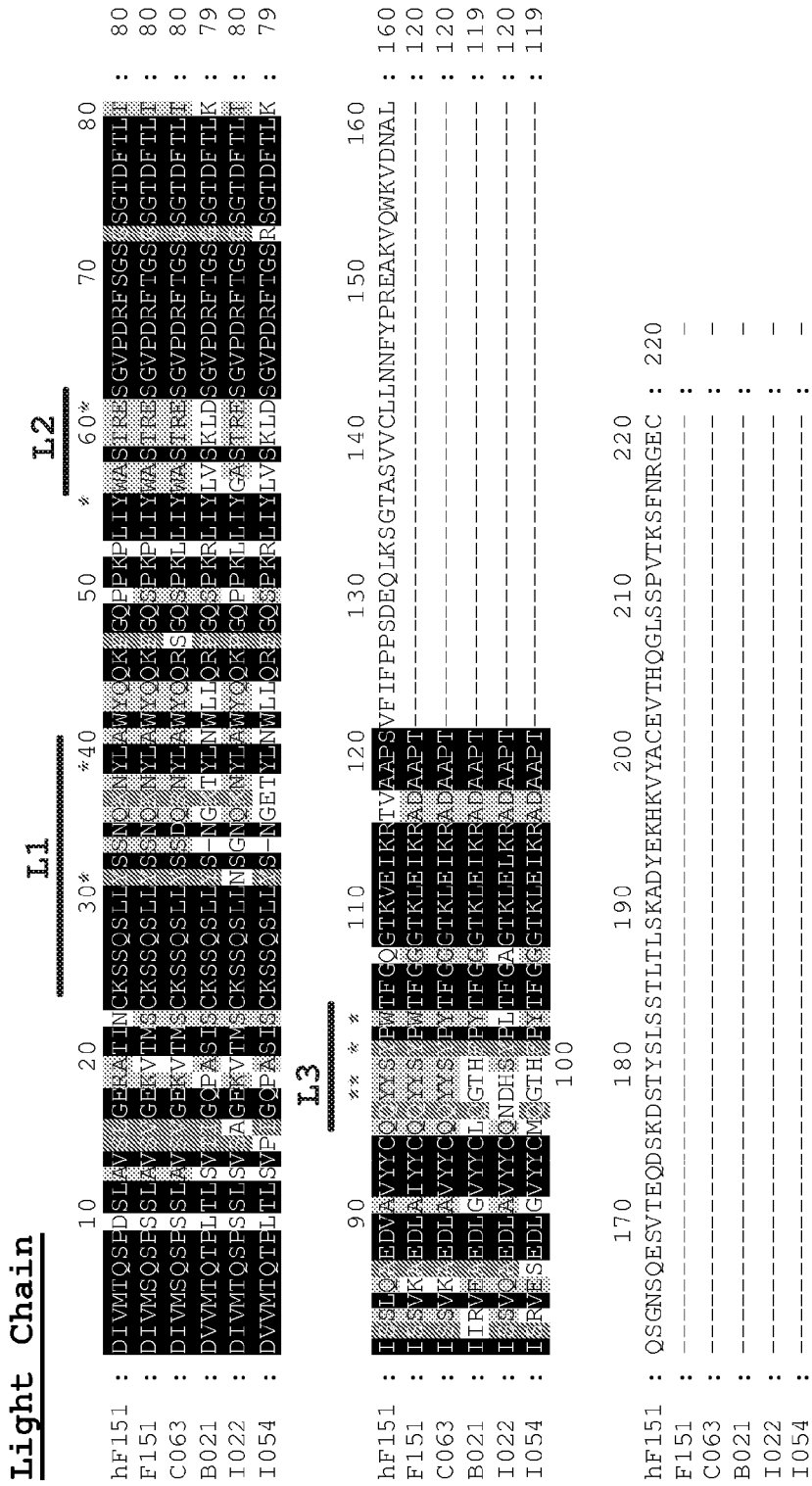


Figure 7

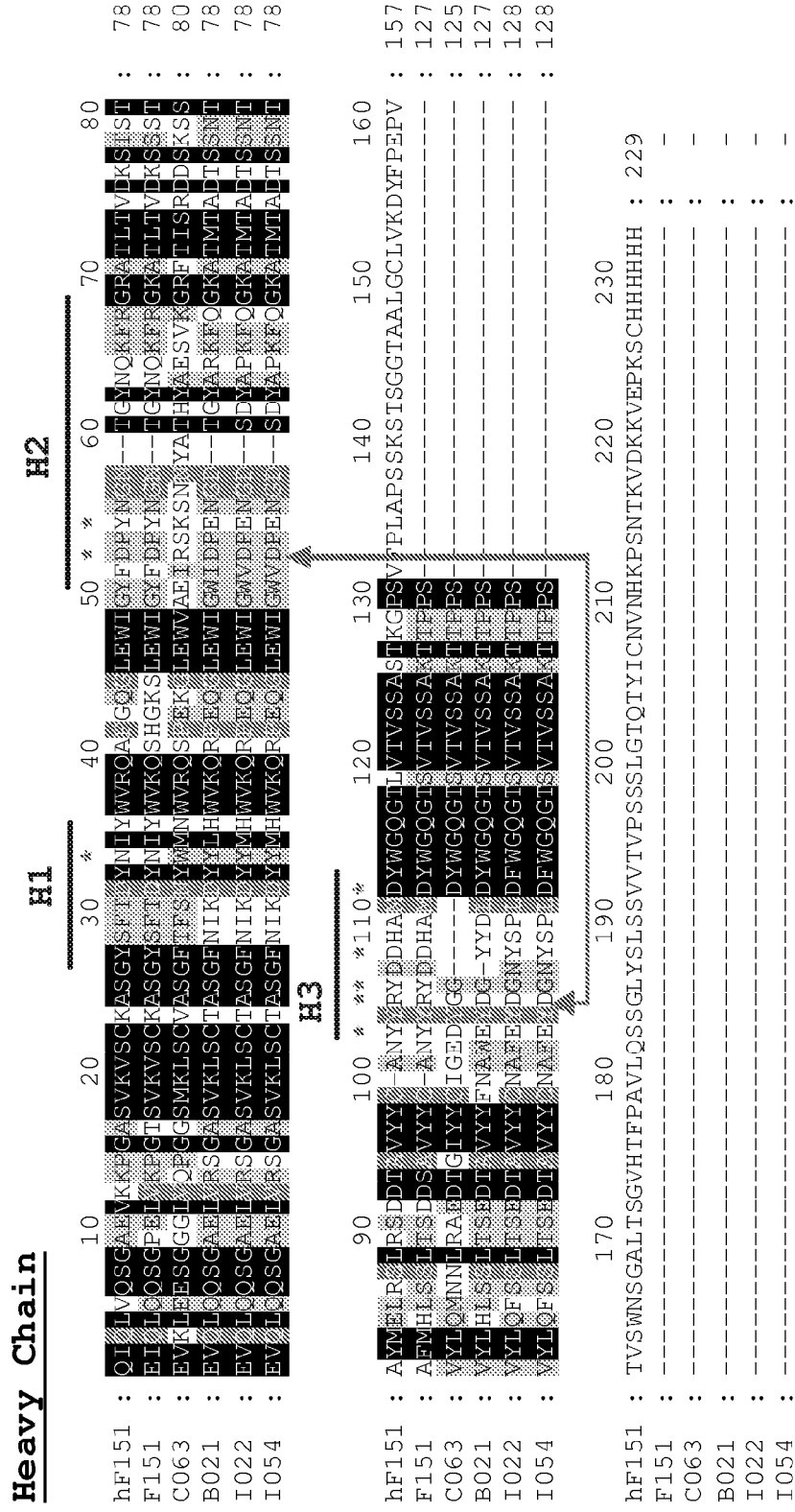


Figure 8

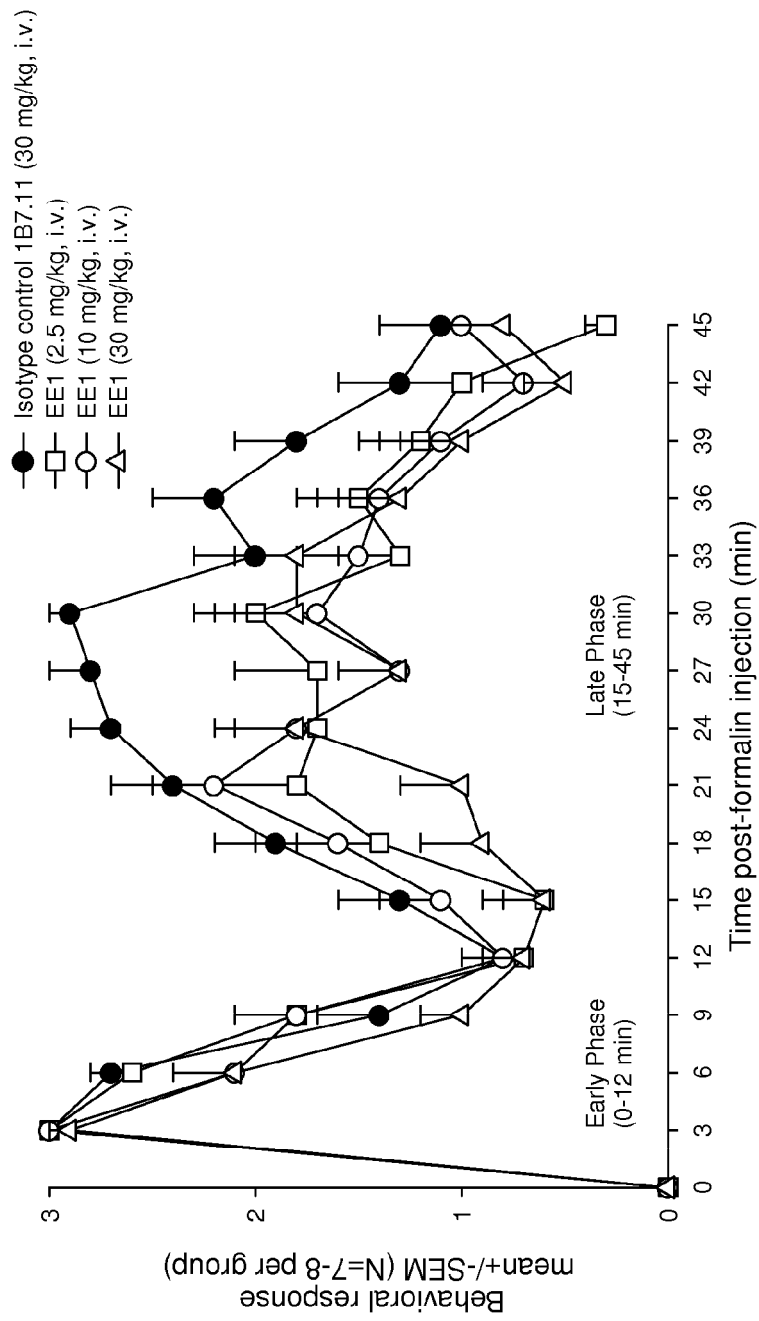


Figure 9

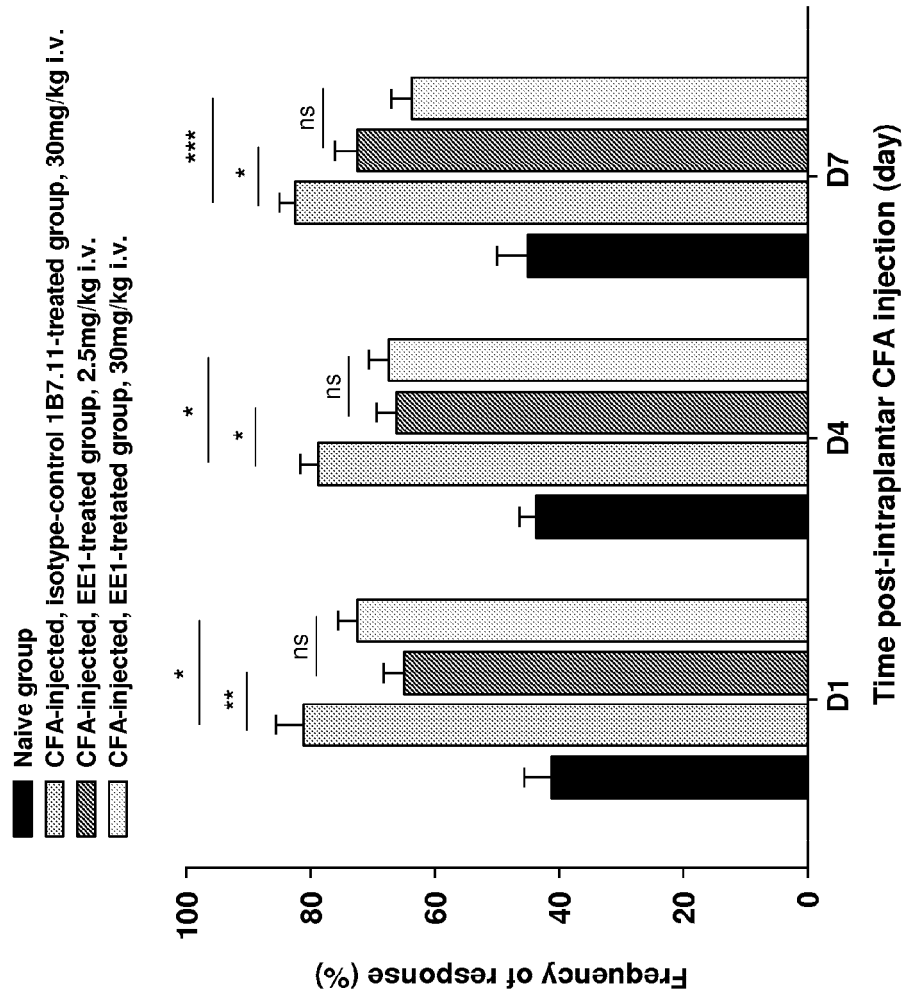


Figure 10

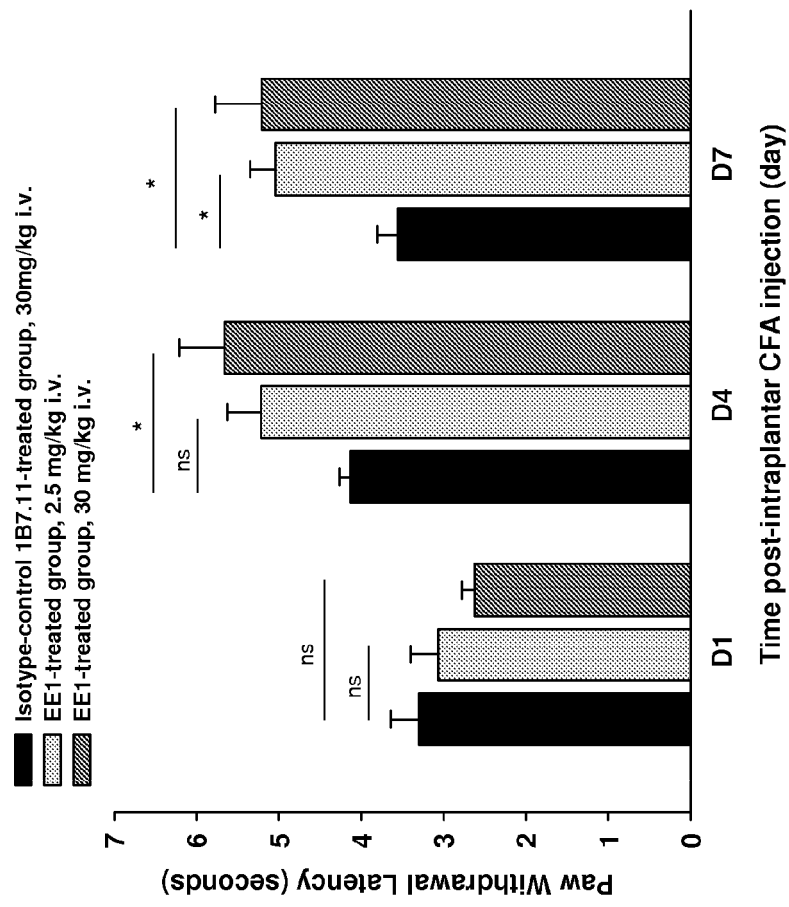


Figure 11

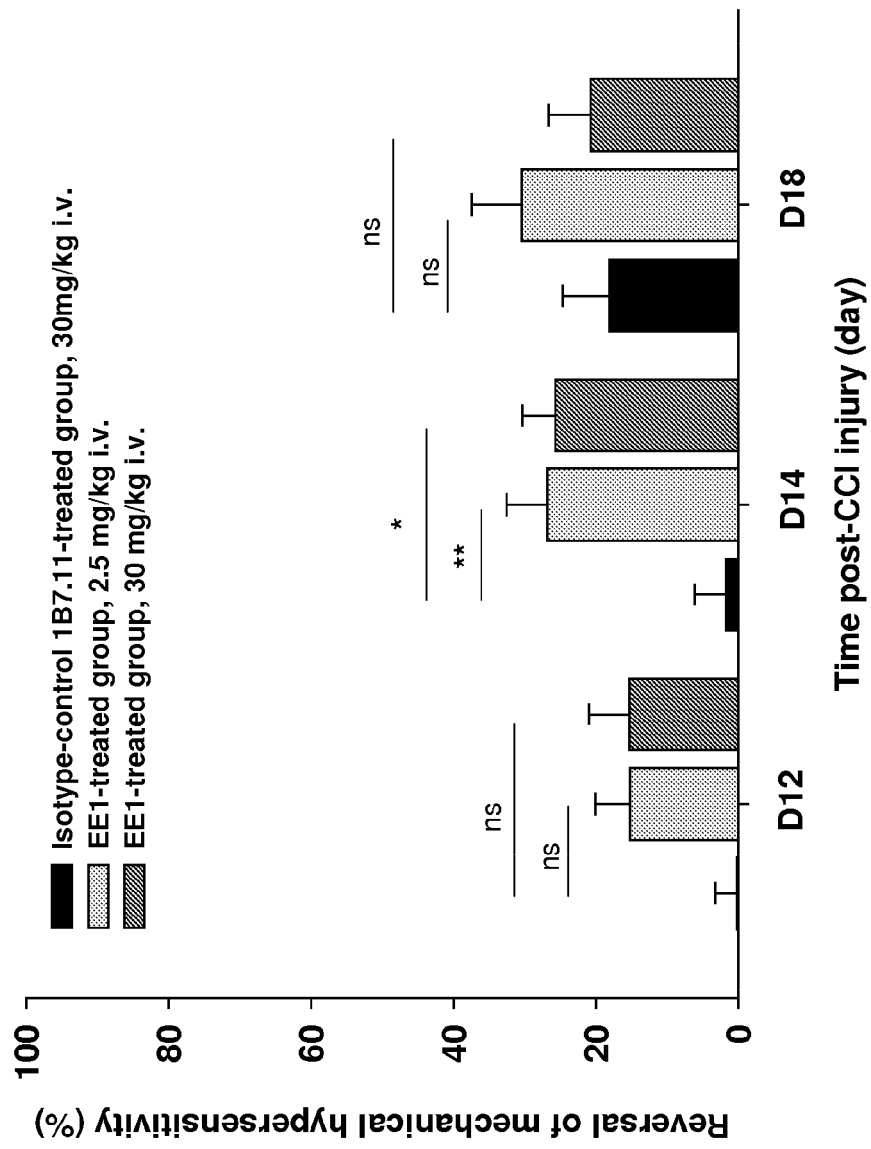


Figure 12

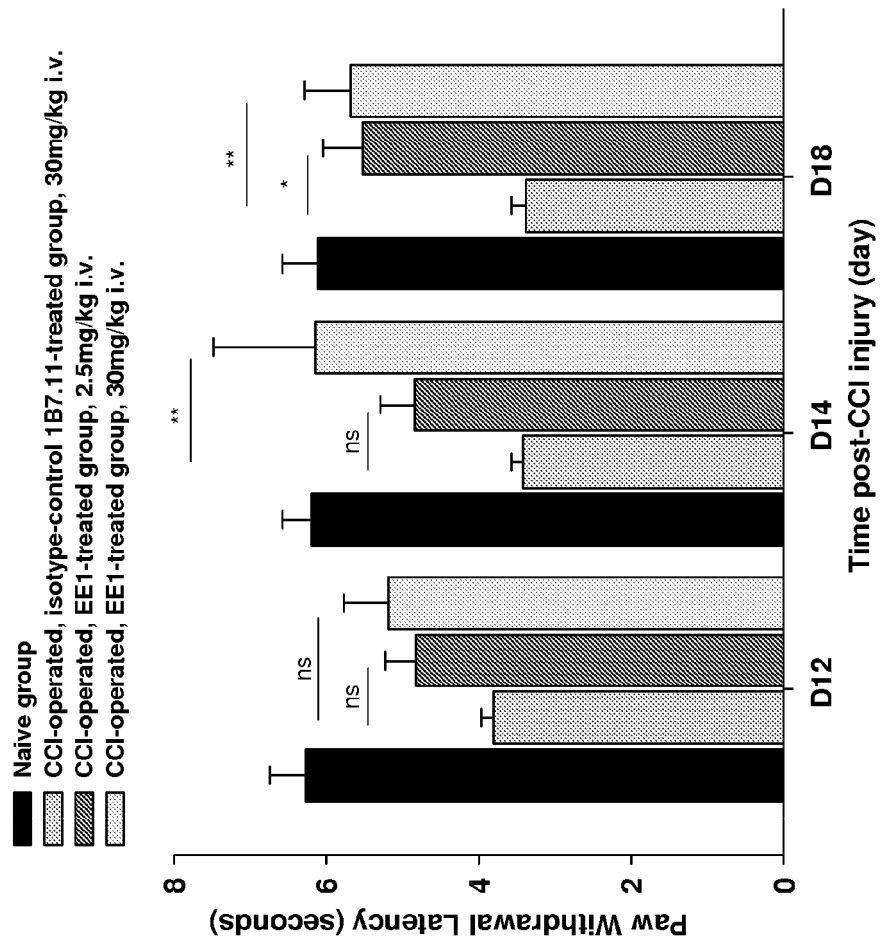


Figure 13

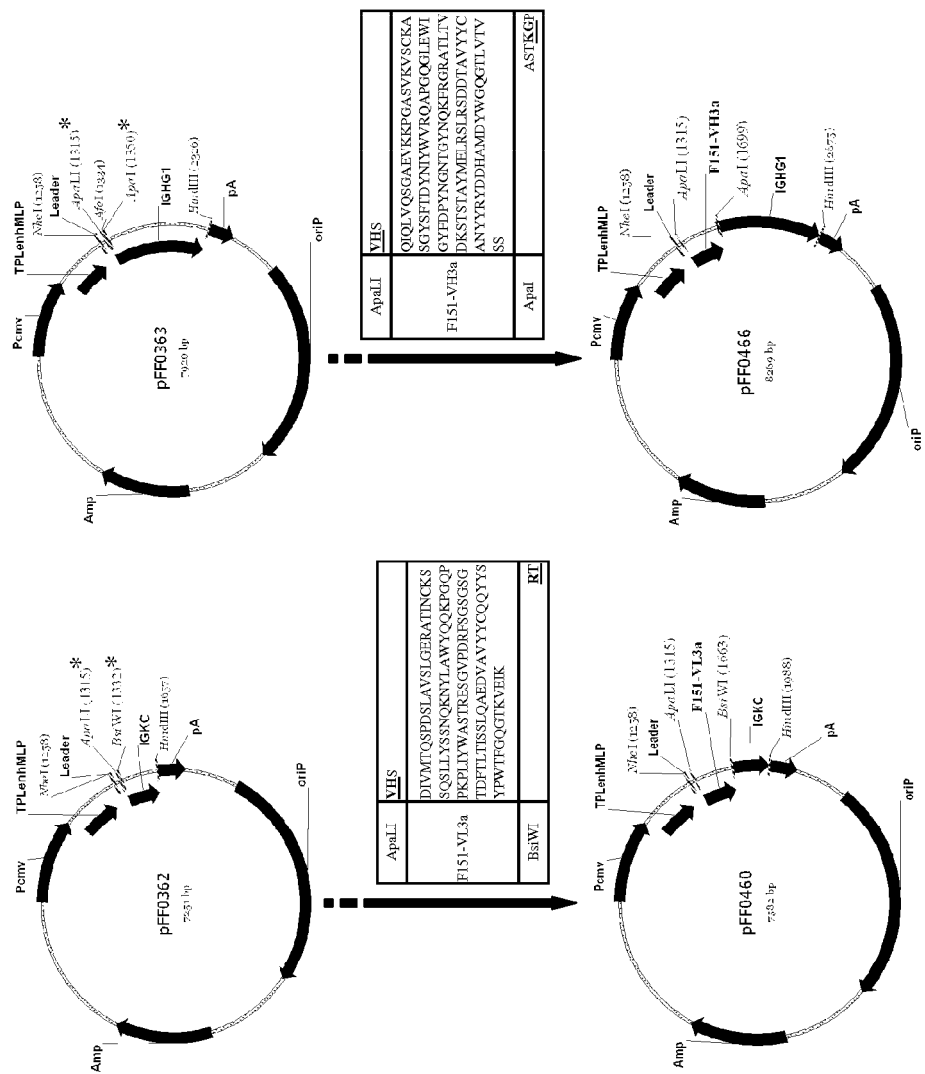


Figure 14

A.

[illegible]**ᐃ**

F151HC	10	20	30	40	50	60
	EIQLOQSGPELVKPGTSVKVSCKASGYSFTDYN	IYWKQSHGKSLEWIGYDFDPYNGNTGY				
VH1b	10	20	30	40	50	60
	QVLVQSGAEVKKPGASVKVSCKASGYFTSY	YMHVWRQAPGQGLEWMGMINPNSGGTNY				
F151HC	70	80	90	100	110	
	NQKFRGKATLIVDKSSSTAFMHLSSLTSDS	SAVYYCANY-TRYD--DHAMDYWGQGSTVT				
VH1b	70	80	90	100	110	120
	AQKFGQVVTMRDKSSSTAYMELSSLRSED	IAVYYCARWGYDYDVFYYAMDYWGQGLT				
F151HC	120					
	VSS (SEQ ID NO: 113)					
VH1b	VSS (SEQ ID NO: 114)					

Figure 15

A.

[illegible]

b.

mF151-HC:
EIQLOQSGPELVKPGTSVKVCKAS**GYSFTDYN**IYVV**KQSHGKSLEWIGY**
...::: :. :::::::::::::::::::: :.: :.....
Z12316-1-VX97051-4-D-X97051-5-J: QVOLVQS**GA**E**VKKP**GA**S**VKVCKASGYTFTSYGI**SWVR**AP**GGGLE**MMGW
FDPYNGNTGYNQKFRGAL**TVDKSSSTAFMHLSSLTSDDS**AVYYC**ANYRYDDHAMDYWGQG**TSVTSS (SEQ ID NO:19)
:..... :.:..... : .. :.: :
ISAYNGNTYAQKLQGRVTMTDTSTAYMELRSLRSDDTAVYYCAREYSSSSDAFDIWGGQMVTSS (SEQ ID NO:116)

Figure 16

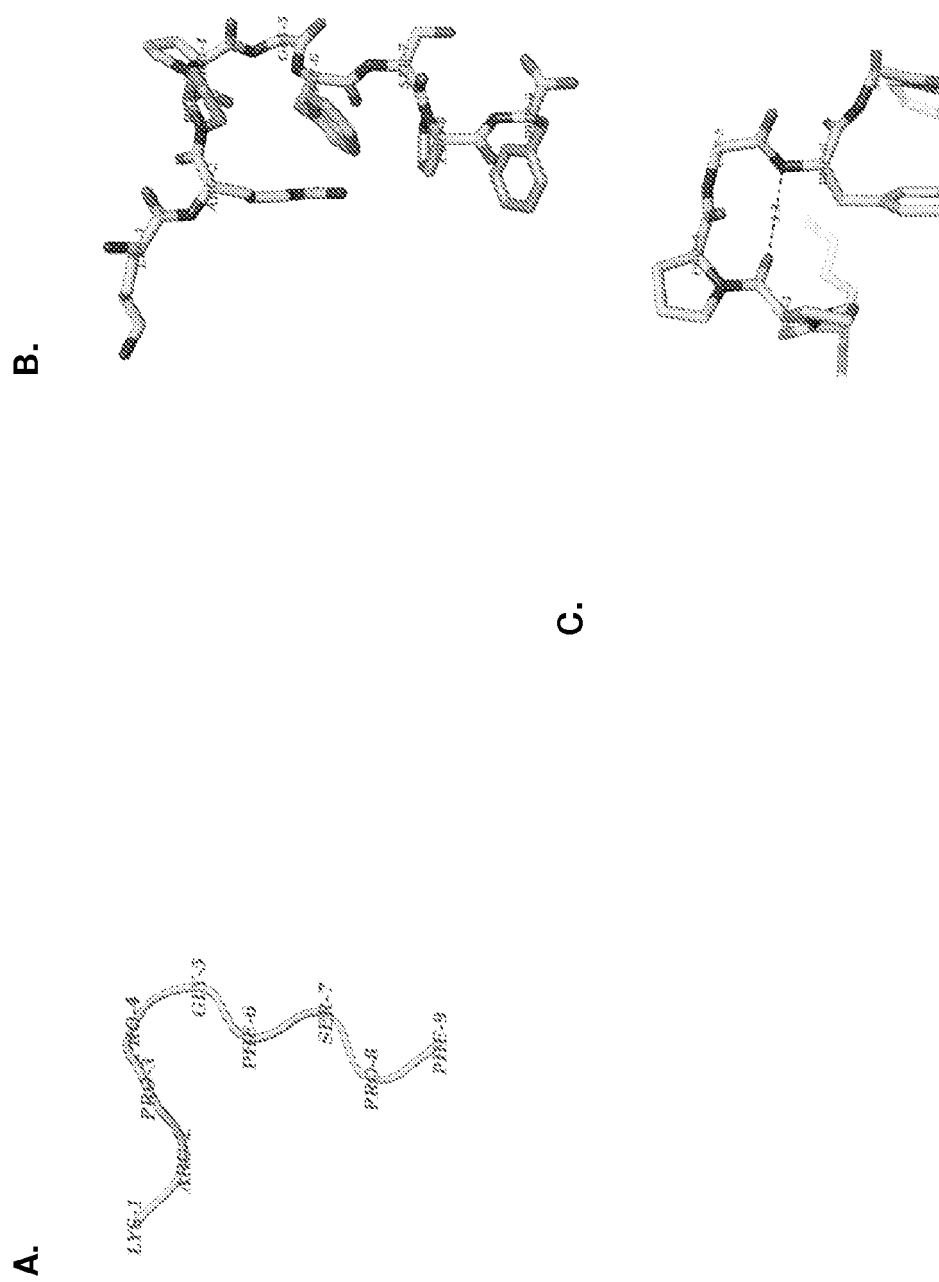


Figure 17