

FIG. 1A

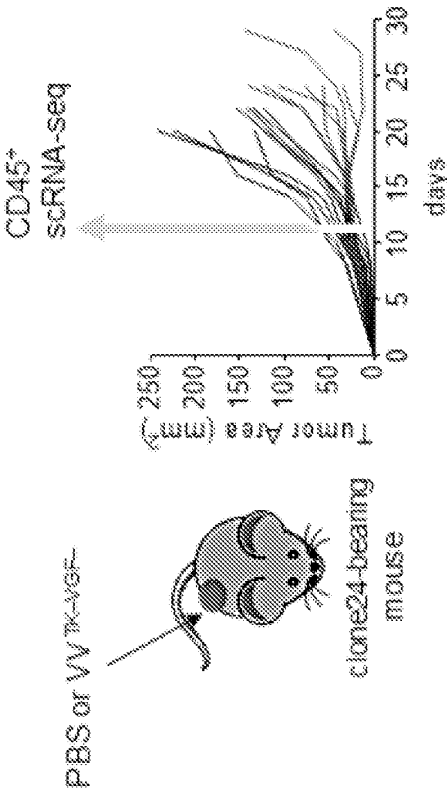
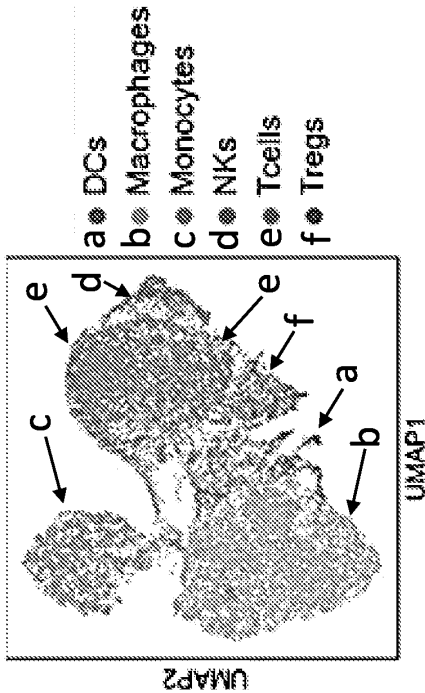


FIG. 1B



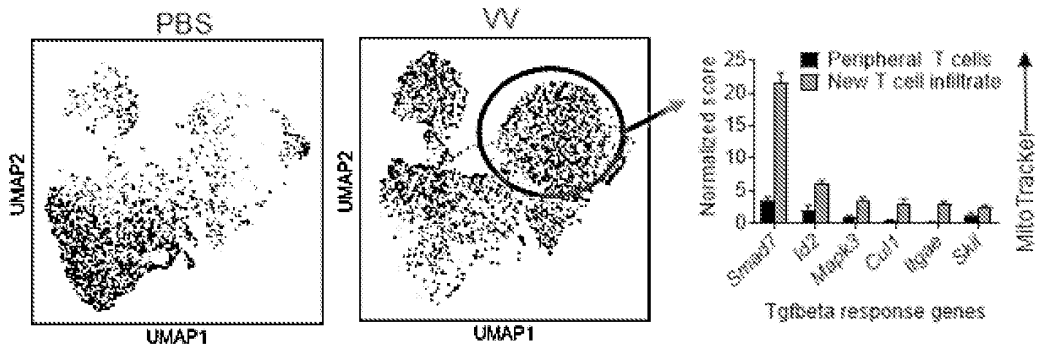


FIG. 1C

FIG. 1D

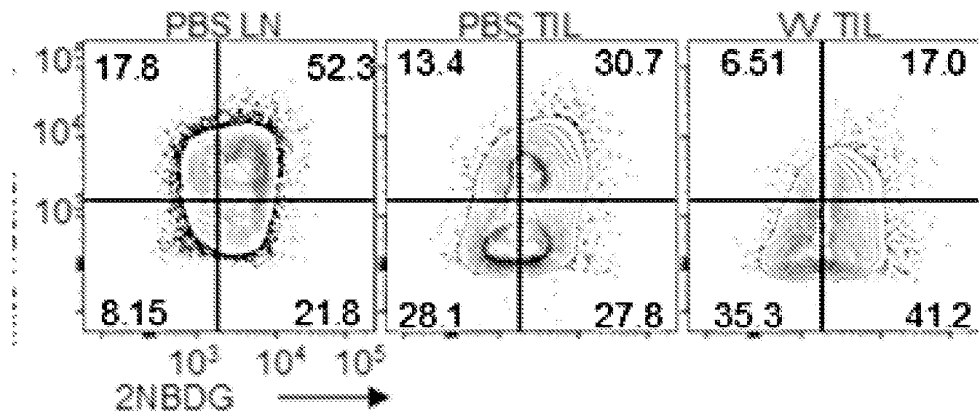
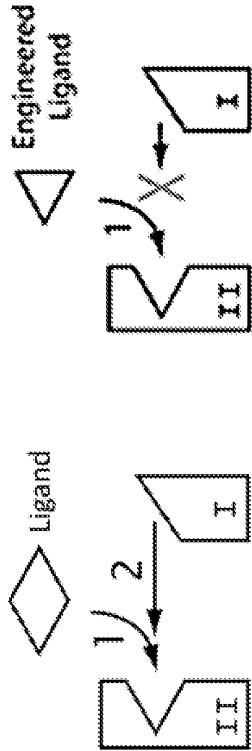


FIG. 1E

FIG. 2A



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SUBSTITUTE SHEET (RULE 26)

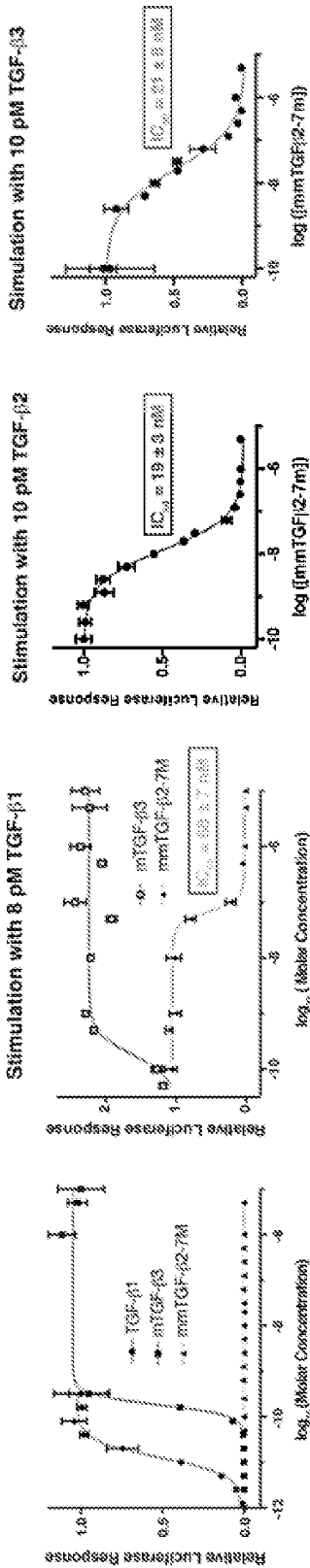


FIG. 2B

FIG. 3A

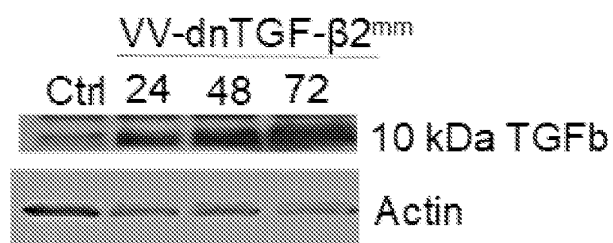


FIG. 3B

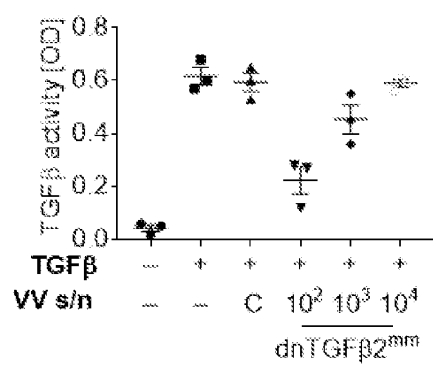
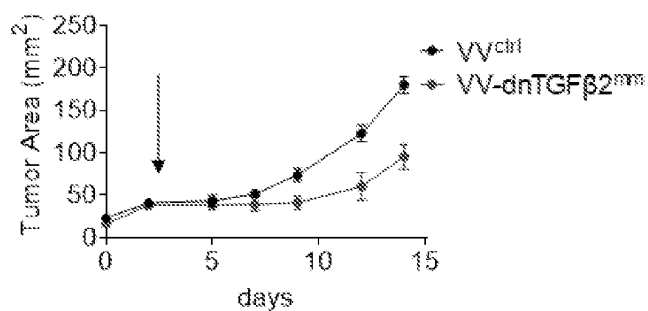


FIG. 3C



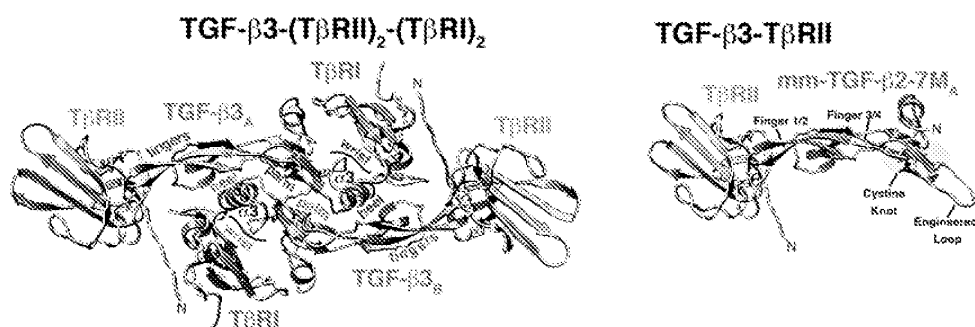
TGF-β2 (SEQ ID NO: 2) vs. mmTGF-β2-7M (SEQ ID NO: 7)

- ```

SEQ ID NO: 2 ALDAA YCFRNVQDNCCLRLPLYIDFKRDLGWKWIHEFPKGYNANFCAGACPYLWSSDTQHT 59
SEQ ID NO: 7 ALDAA YCFRNVQDNCCLRLPLYIDFKRDLGWKWIHEFPKGYNANFCAGACPYR----- 51
 *****44*****311111111

```

SEQ ID NO: 2 KVL~~SL~~YNTINPEASASPCCVS~~QD~~LEPLTILYYIGNTPKIE~~Q~~LSNNIVKSKCKS 112  
 SEQ ID NO: 7 -----ASKSPSCV~~SQD~~LEPLTIVYYVGRKPKVE~~Q~~LSNNIVKSKCKS 92  
 111111111111\*\*3\*\*2\*\*\*\*\*4\*4\*44\*4\*\*\*\*\*



mmTGF- $\beta$ 2-7M (SEQ ID NO: 7) vs mmTGF- $\beta$ 2-7M2R (SEQ ID NO: 9)

- ```

                                                    57 59
SEQ ID NO: 7  ALDAAYCFRNVQDNCCLRPLYIDFRKDLGWKWIHEPKGYNANFCAGACPYRASKSPSCV 59
                                                    |  |
SEQ ID NO: 9  ALDAAYCFRNVQDNCCLRPLYIDFRKDLGWKWIHEPKGYNANFCAGACPYRASKSPCrCr 59
                                                    *  *
*****5*6*****

SEQ ID NO: 7  SQDLEPLTIVYYVGRKPKVEQLSNMIVKSKCKS 92
SEQ ID NO: 9  SQDLEPLTIVYYVGRKPKVEQLSNMIVKSKCKS 92
*****

```

FIG. 4B

FIG. 4E

mmTGF-β2-7M (SEQ ID NO:7) vs mmTGF-β2-7M2R-Del8-17 or var1 (SEQ ID NO: 10)

5. Substitution of interchain disulfide position with arginine
6. Introduction of Basic Residue at dimer interface
7. Elimination of cysteines that form the 8-17 disulfide

7 16
| |

SEQ ID NO: 7 ALDAAACFRNVQDNCCLRPLYIDFRKDLGWKWIHEPKGYNANFCAGACPYRASKSPSCV 59
SEQ ID NO: 12 ALDAAAYVFRNVQDNCALRPLYIDFRKDLGWKWIHEPKGYNANFCAGACPYRASKSPFCF 59
*****7*****5*6

SEQ ID NO: 7 SQDLEPLTIVYYVGRKPKVEQLSNMIVKCKCS 92
SEQ ID NO: 12 SQDLEPLTIVYYVGRKPKVEQLSNMIVKCKCS 92

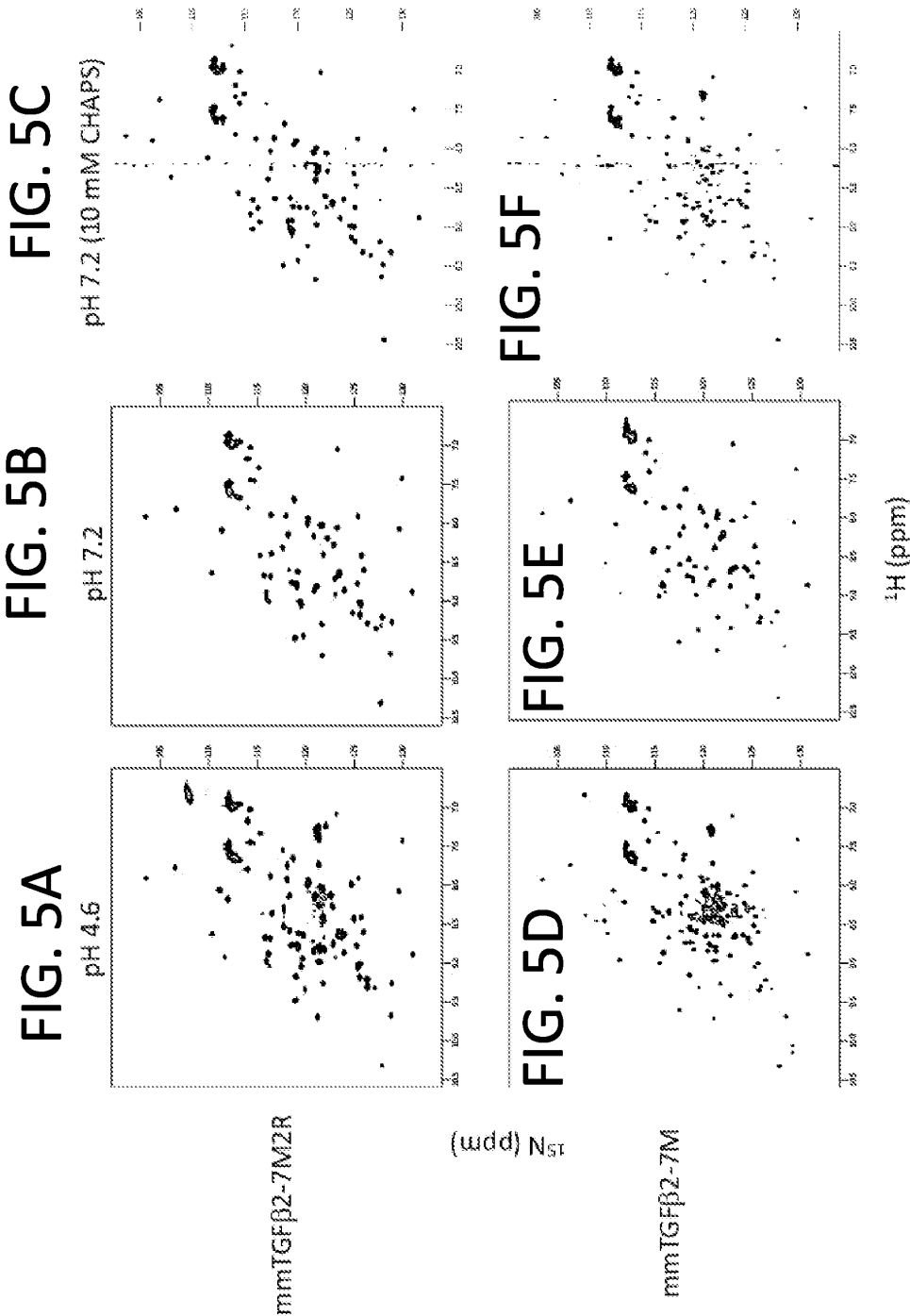


FIG. 6C

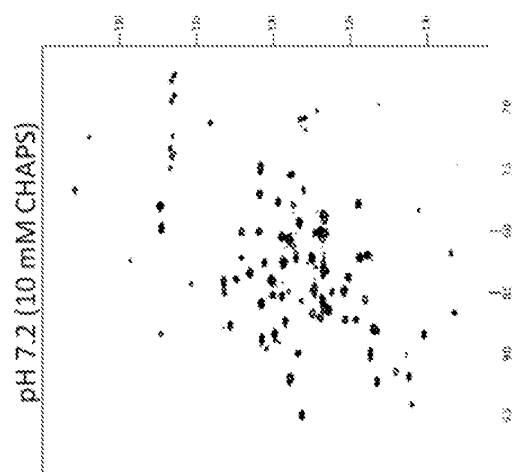


FIG. 6B

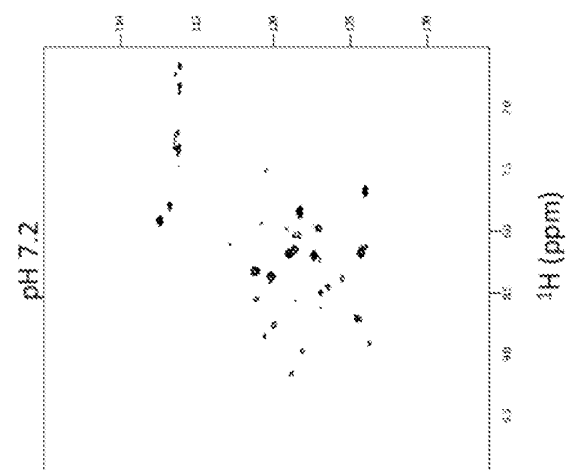


FIG. 6A

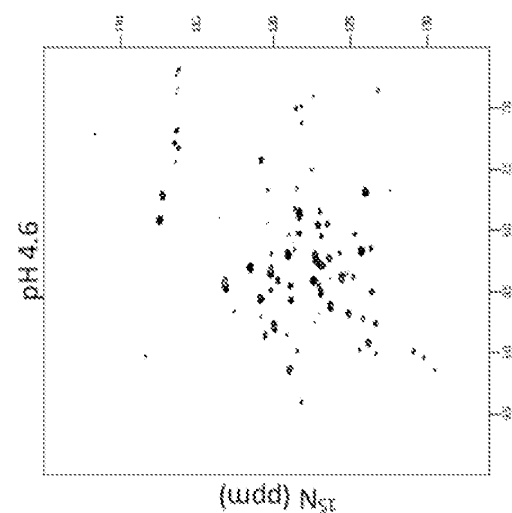


FIG. 7A

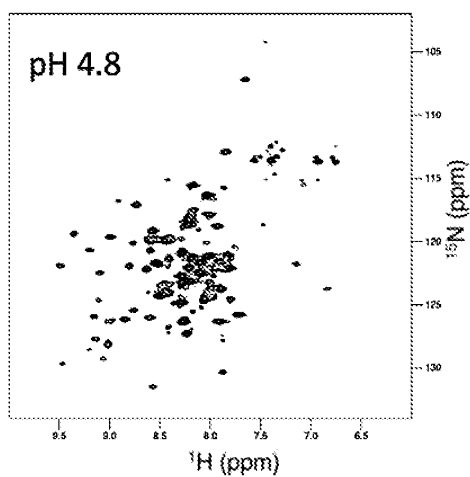


FIG. 7B

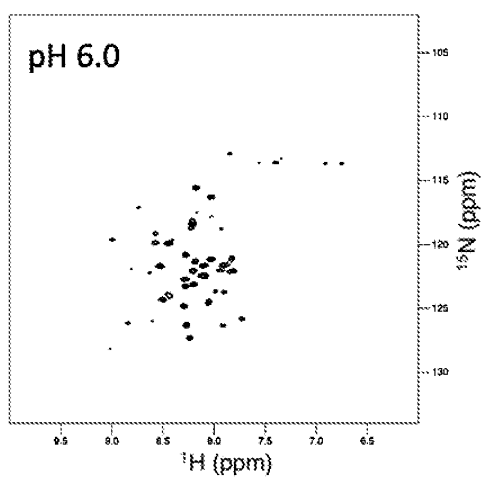
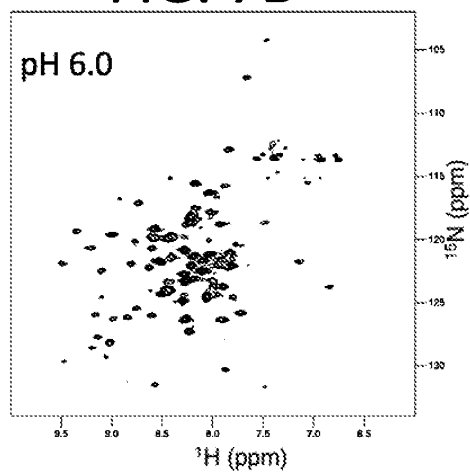


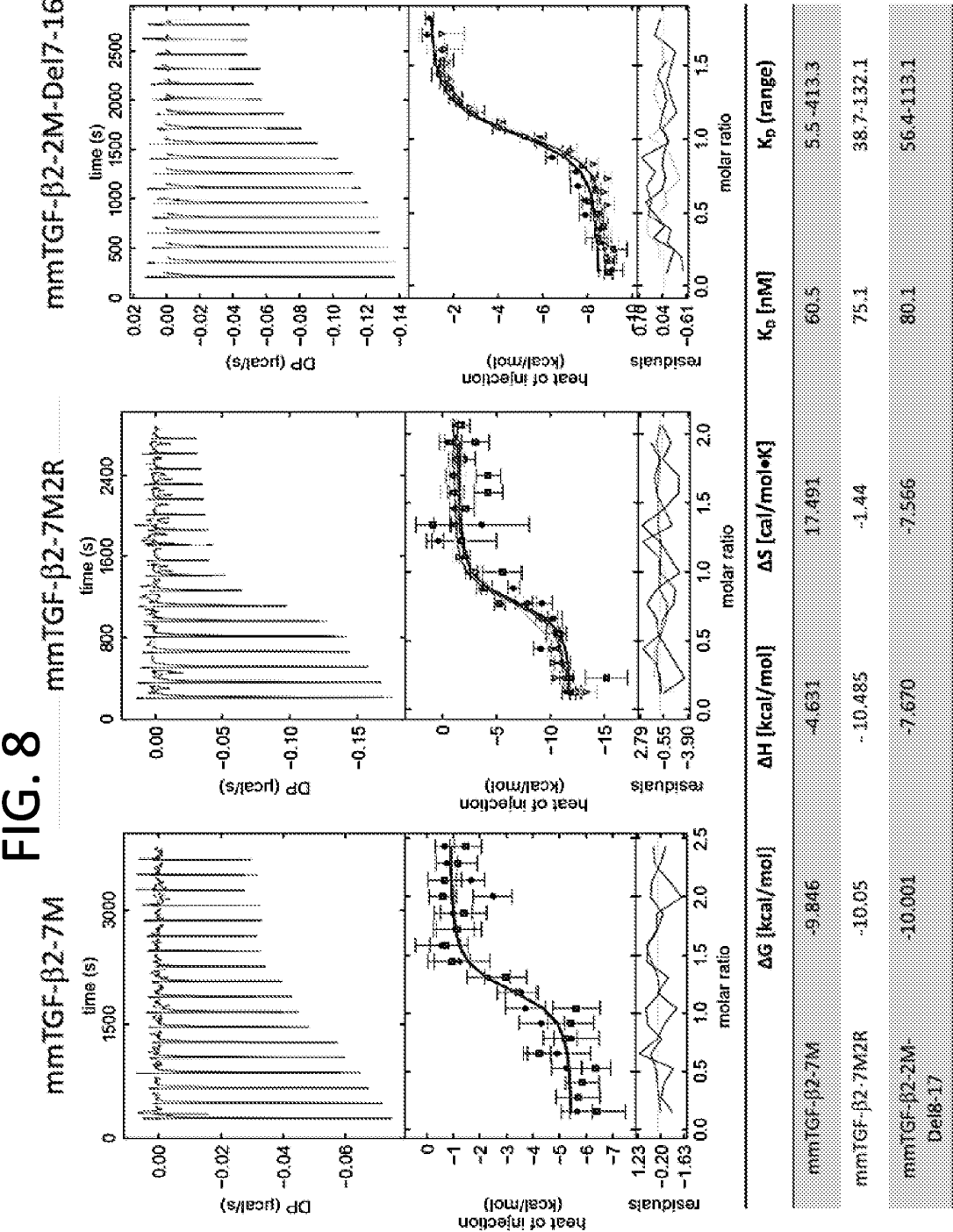
FIG. 7C

TpRII	+	+	+	+	+	+
7M		+B	+A			
7M2R				+A	+B	
7M-PRDC						+B



Ratios: A - 1:1, B - 2:1

FIG. 7D



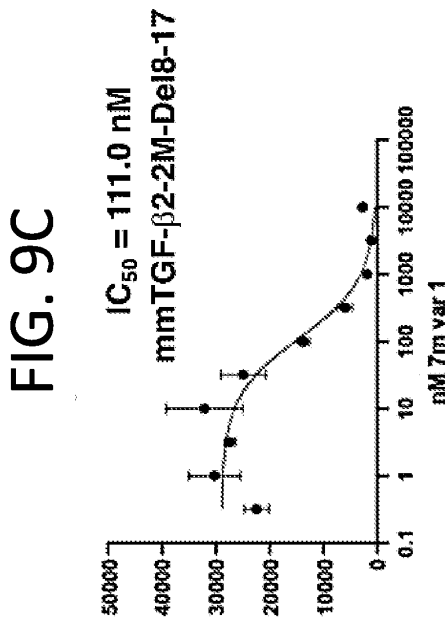
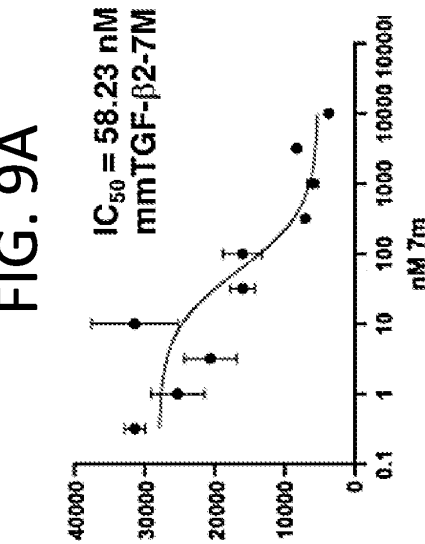
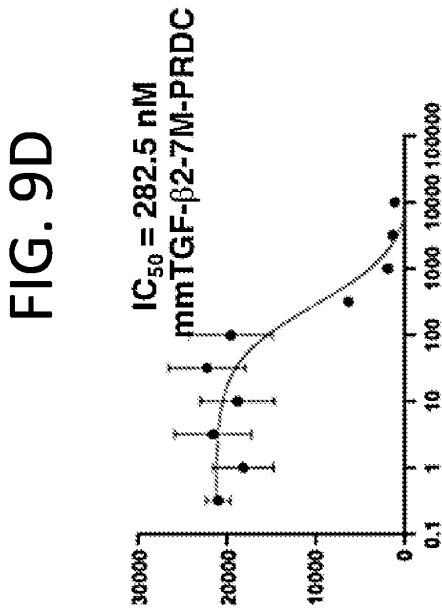
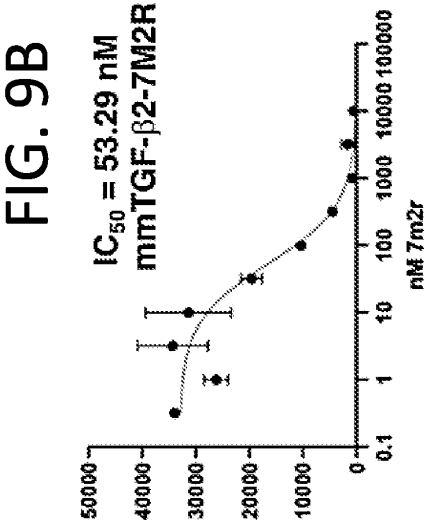


FIG. 10

