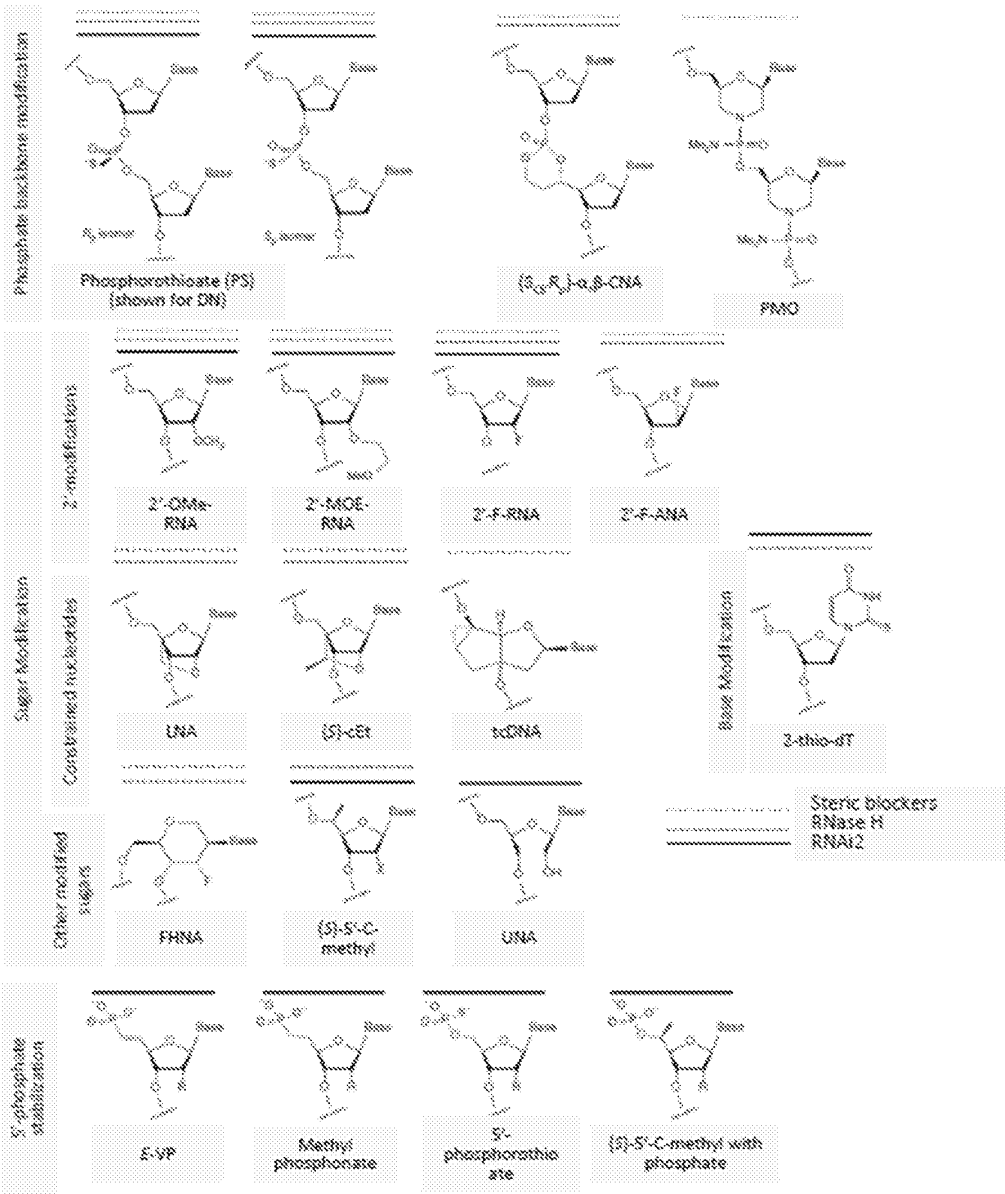
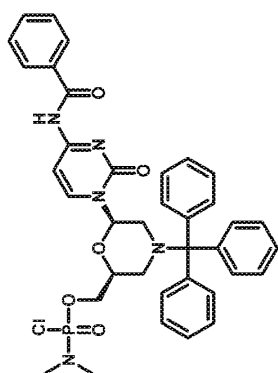


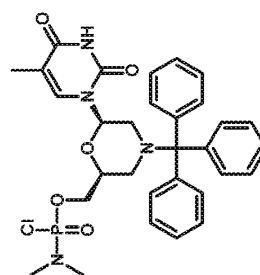
FIG. 1





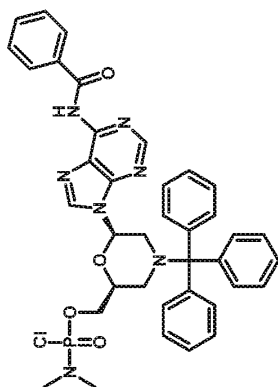
Cytosine morpholino monomer

FIG. 2B



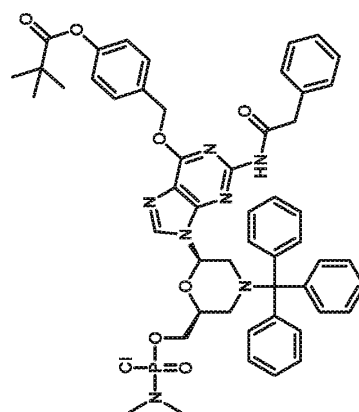
Thymine morpholino monomer

FIG. 2D



Adenine morpholino monomer

FIG. 2A



Guanine morpholino monomer

FIG. 2C

FIG. 3A

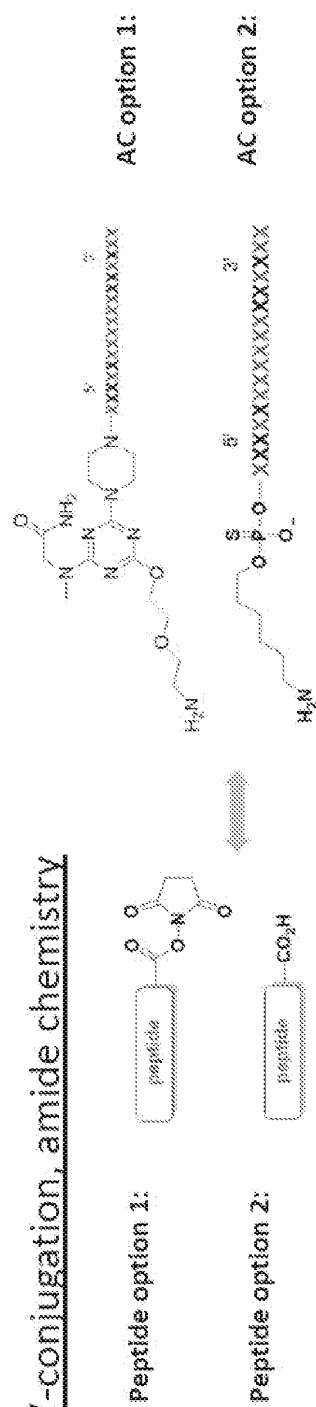
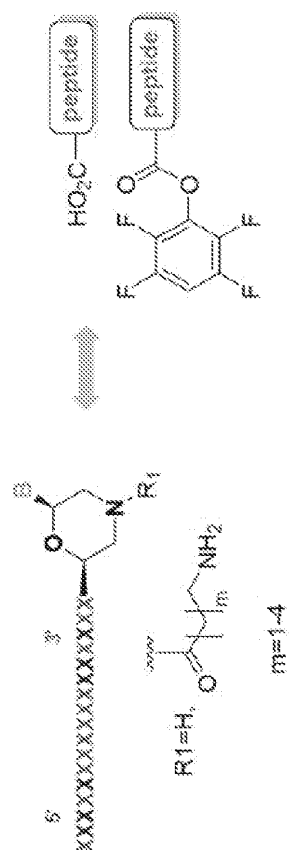
5'-conjugation, amide chemistry

FIG. 3B

3'-conjugation, amide chemistry

5'-conjugation, click chemistry

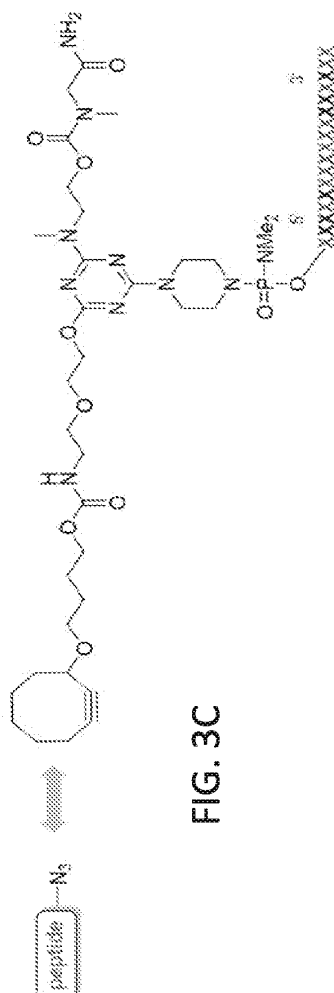


FIG. 3C

FIG. 3D

3'-conjugation, click chemistry

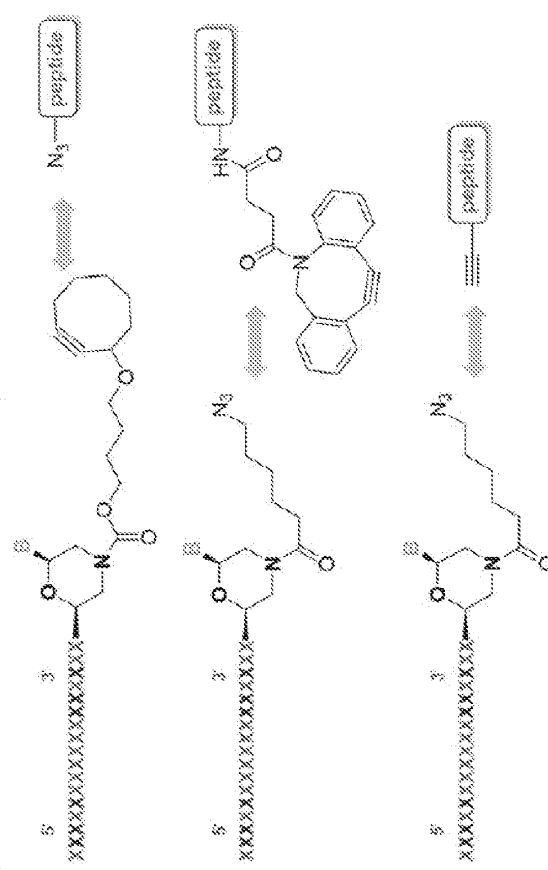


FIG. 4

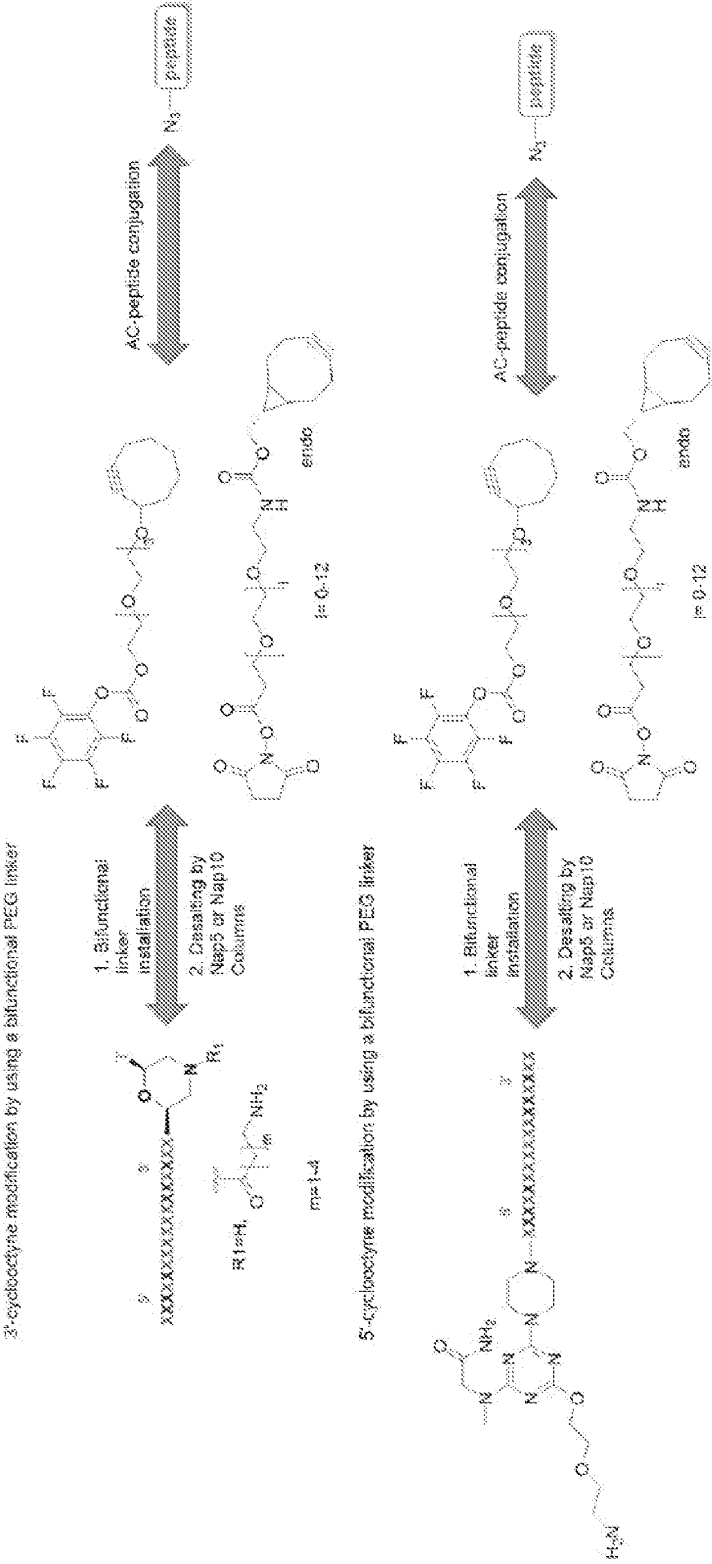


FIG. 5A

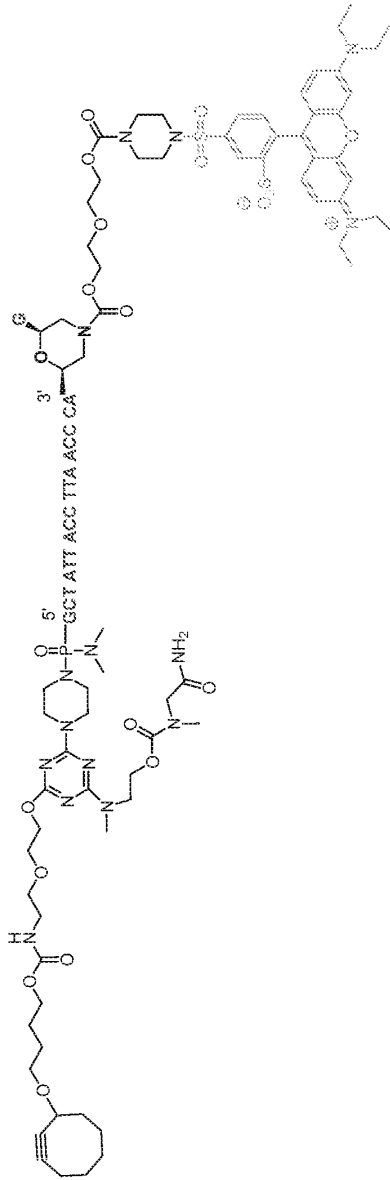


FIG. 5B

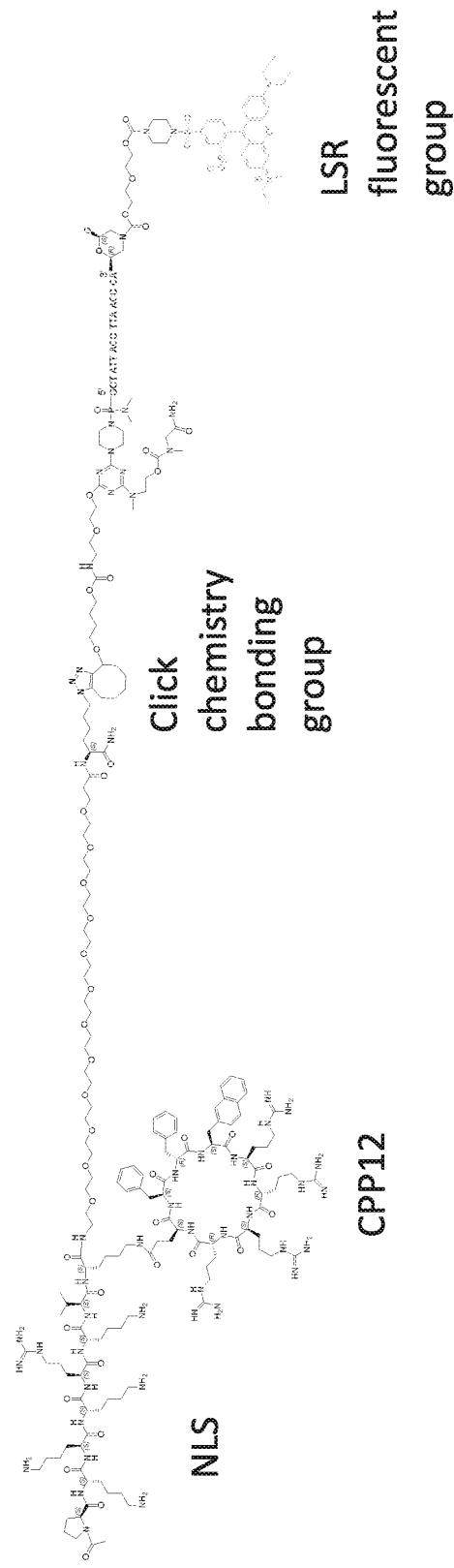


FIG. 5C

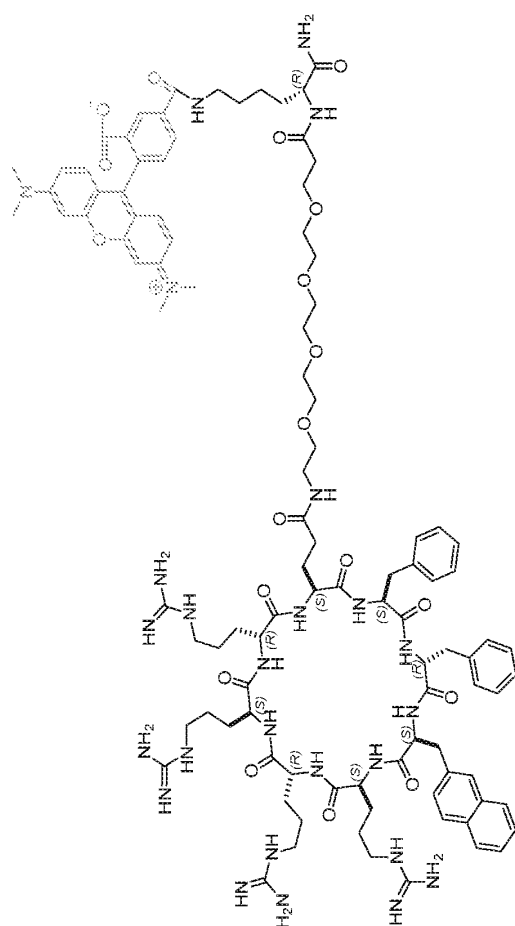


FIG. 6

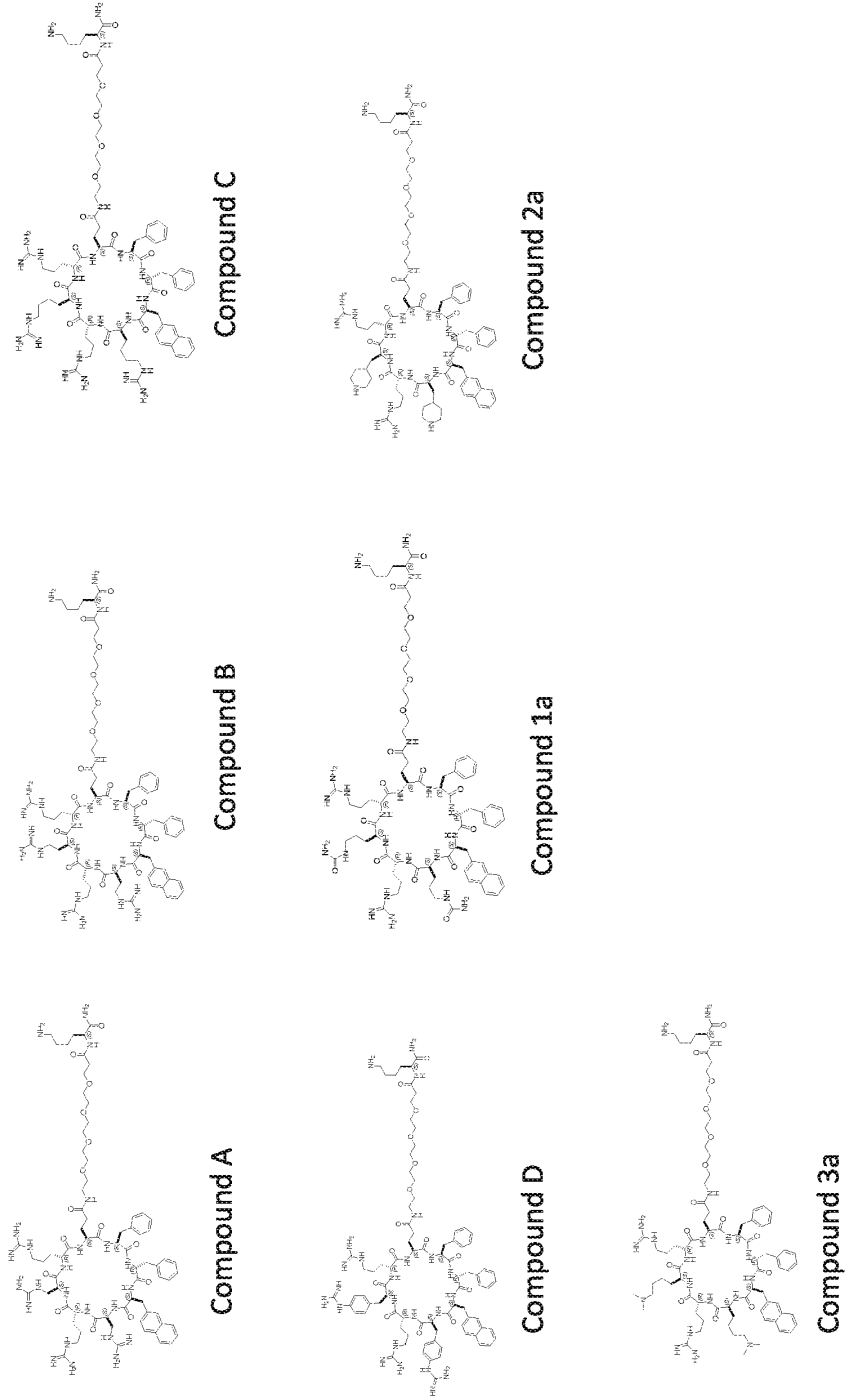


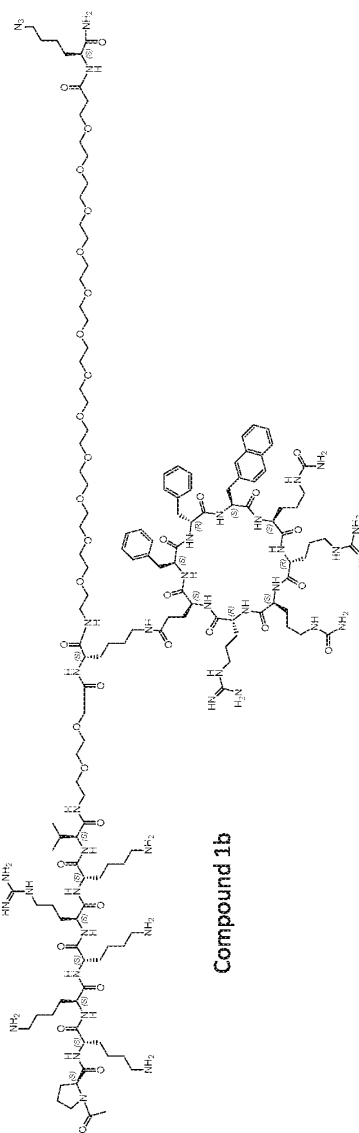
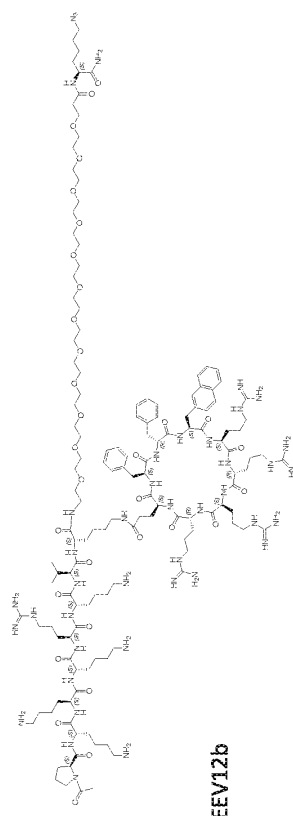
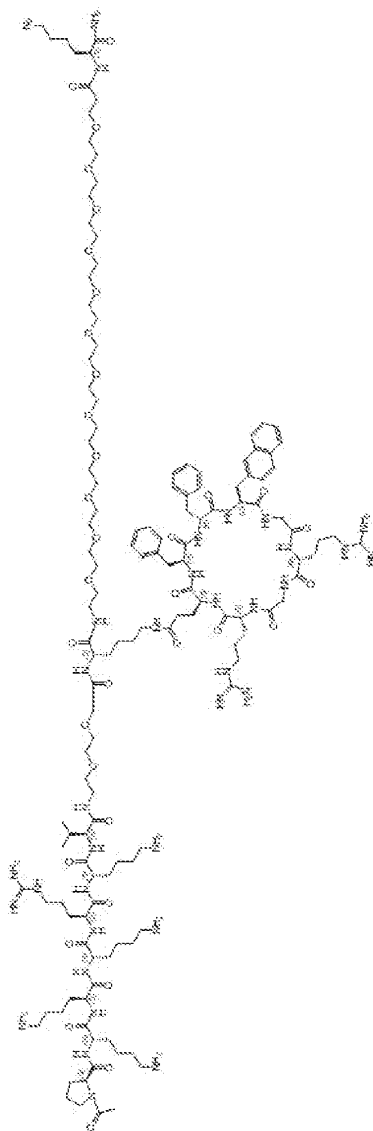
FIG. 6
(continued)

FIG. 7



Compound 4b

FIG. 8

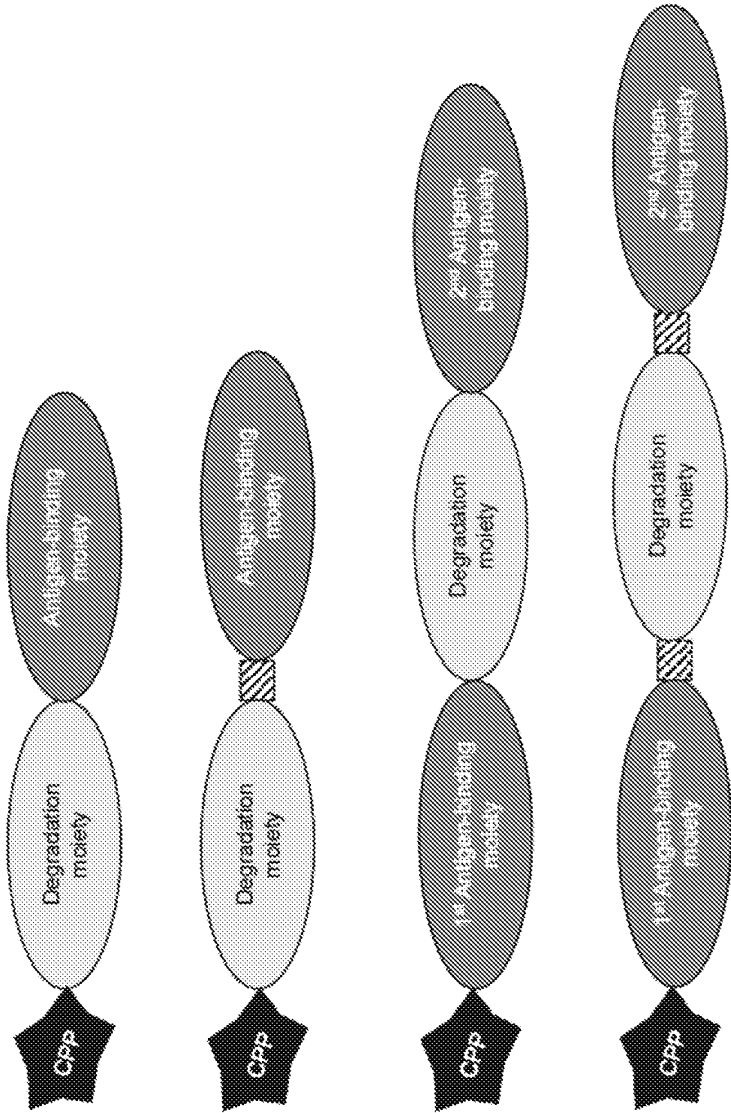


FIG. 9

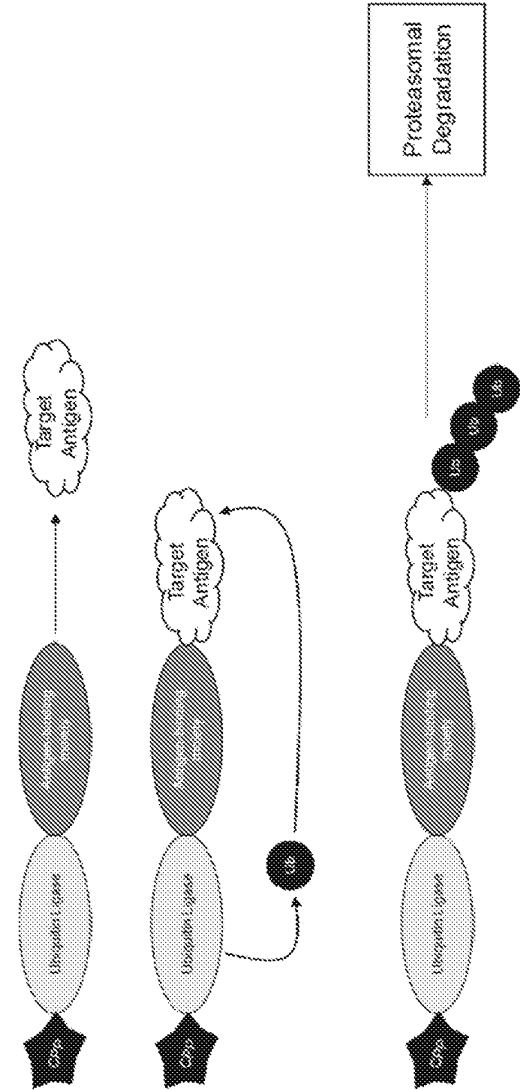


FIG. 10

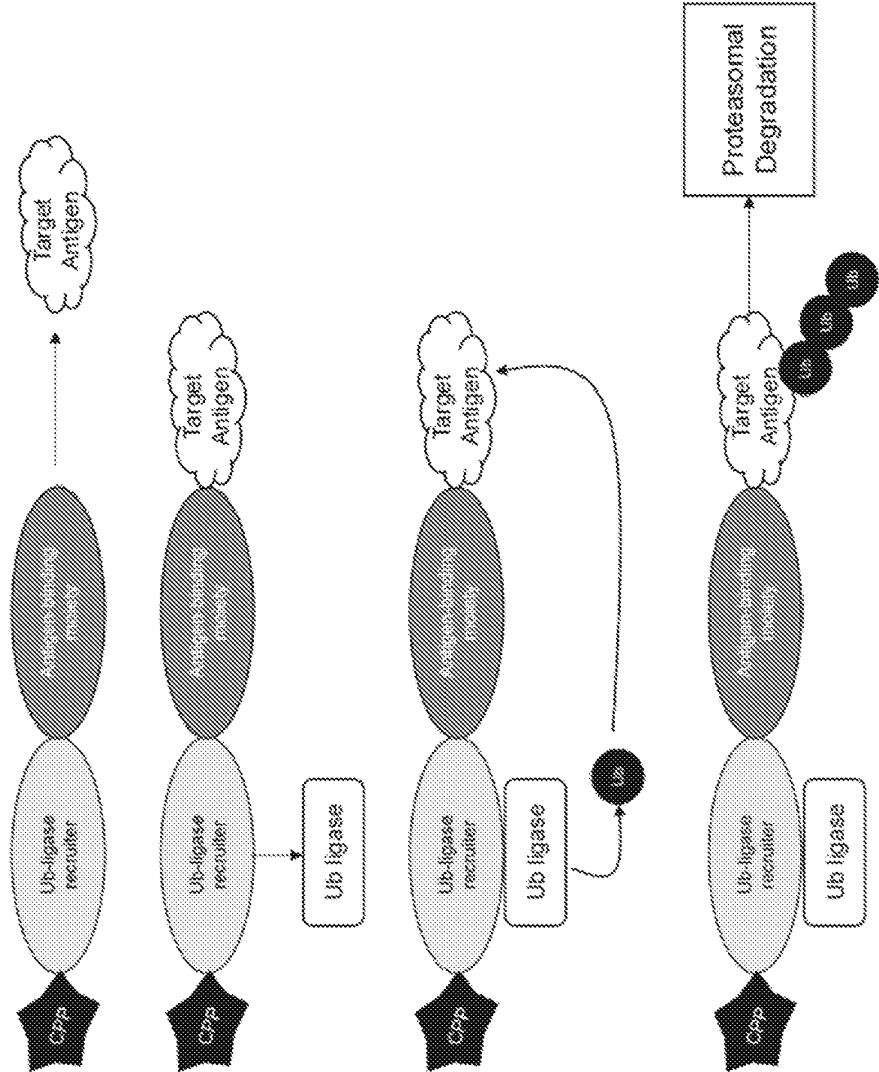
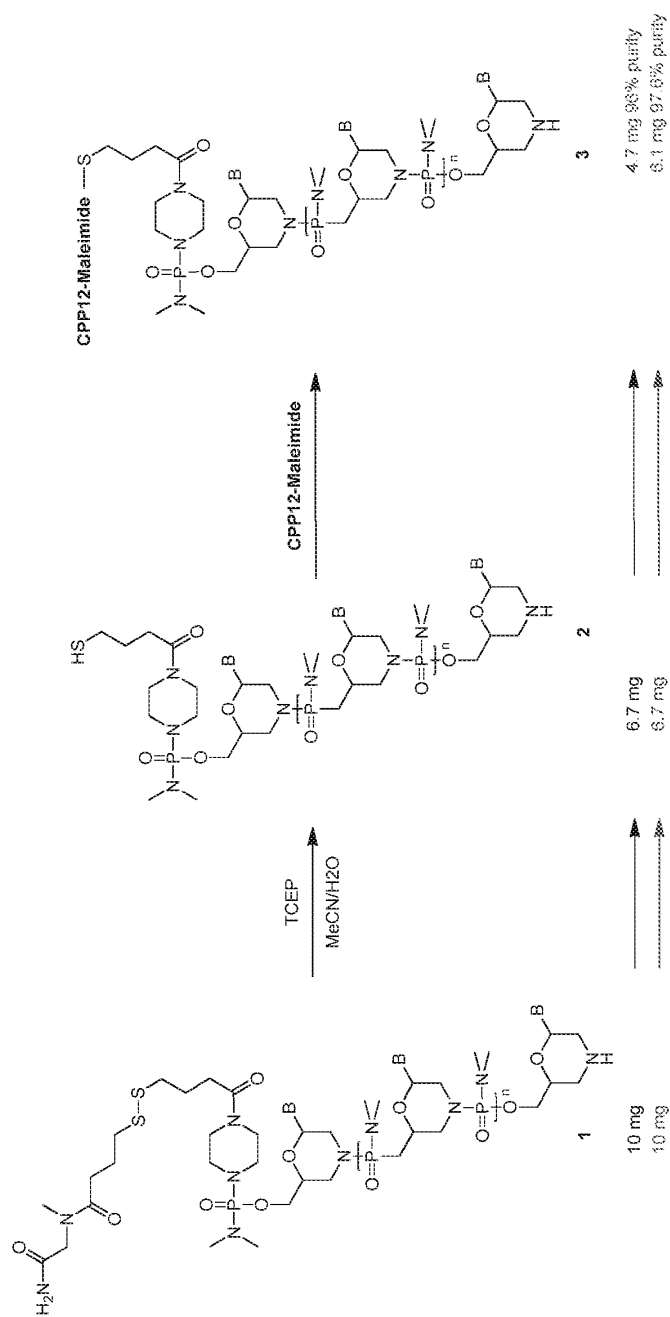


FIG. 11



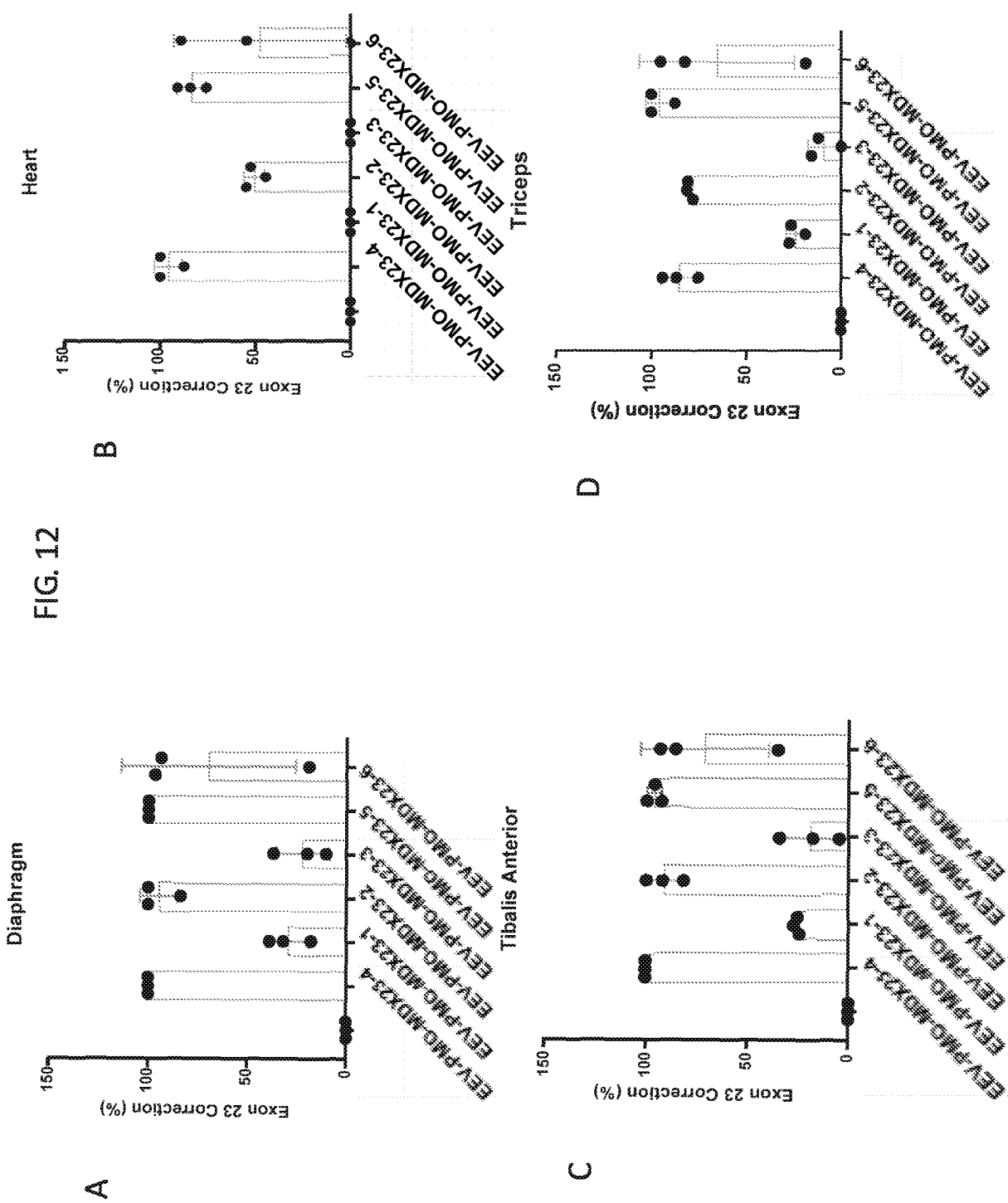


FIG. 12

FIG. 13

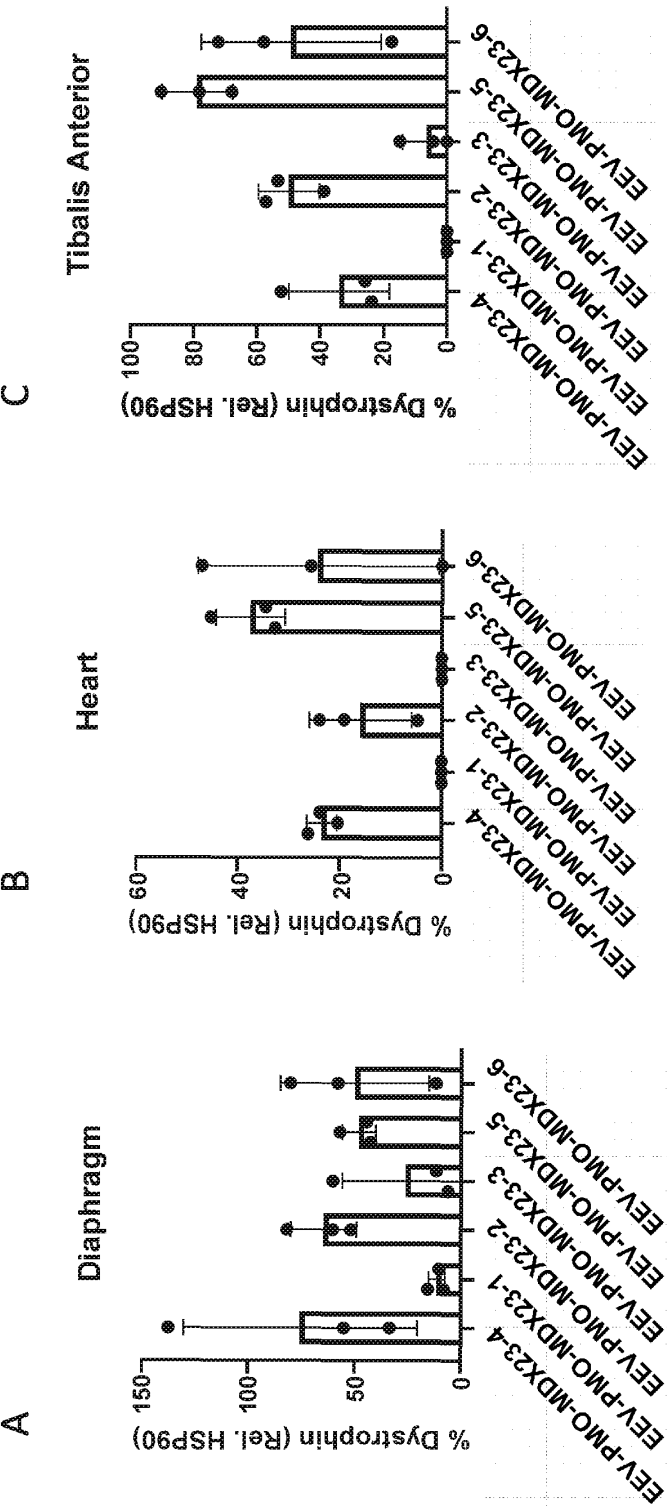


FIG. 14

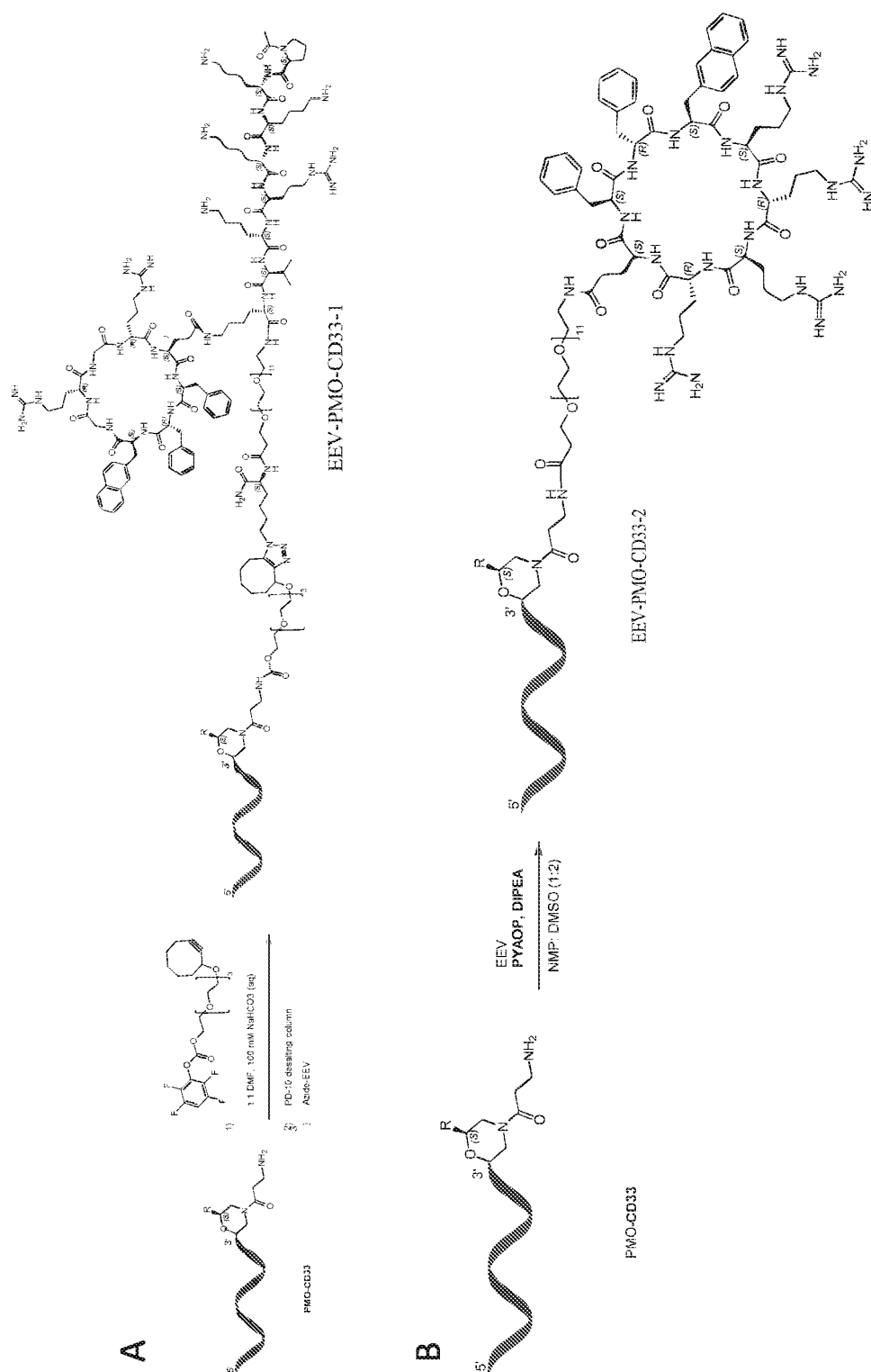


FIG. 15

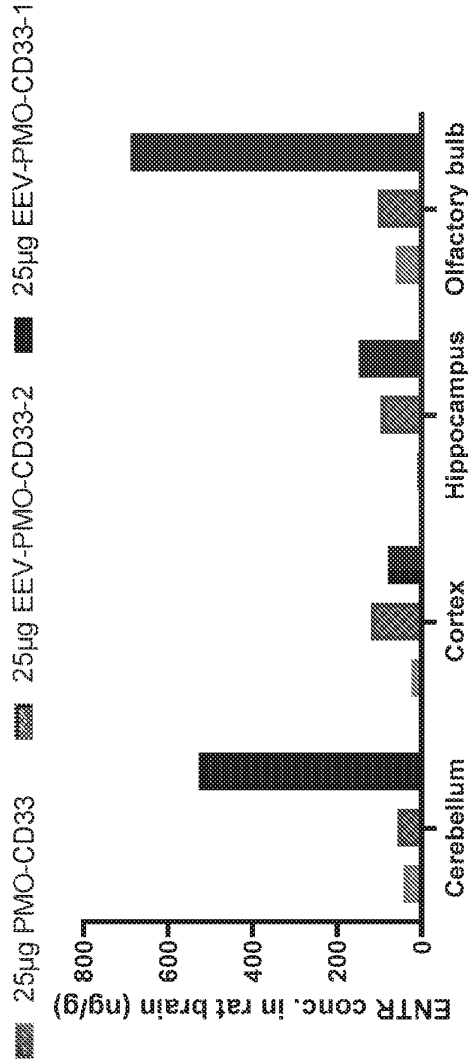


FIG. 16

