

FIG. 1

1	AGCTGAGCCA	CCACCTCCCA	CTCCCCCGCG	CGCCCCCCAG	AAGGACGAC	TGCTCTGATT	GGCCCCGAAG	GGTTCAGGAG	CTGCCCCAGCC
91	TTTGGGCTCG	GGGCCAAAAG	CCGCACCTTC	CCCCAGCGGC	CCCGGGCGAC	CAGCGCGCTC	CGGCCCTTGCC	GCCGCCACCT	CGCGGAGAAG
181	CCAGCCATGG	GCGCCGCCGG	CTCCTCGCG	CTGGCGCGCT	TTGTCTCCT	CGCGCAATCC	CGGCCCGGGT	GGCTCGGGGT	TGCCCGGCTG
271	GGCCTGACCG	CGGTGGCGCT	GGGGGCTGTC	GCCTGGCGCC	GCGCATGGCC	CACGCGGCGC	CGGCGGCTGC	TGCAGCAGTG	GGGCACAGTG
361	GCGCAGCTCT	GGATCTACCC	TGTGAAATCC	TGCAAGGGGG	TGCCGGTGAG	CGAGGCGGAG	TGCACGGCCA	TGGGCTGCG	CAGCGGCAAC
451	CTGCGGGACA	GGTTTGGGCT	TGTGATCAAC	CAGGAGGGAA	ACATGGTTAC	TGCTCGCCAG	GAACCTCGCC	TGGTCTGAT	TTCCCTGACC
541	TGCGATGGTG	ACACCTGAC	TCTCAGTGCA	GCCTACACAA	AGGACCTACT	ACTGCCTATC	AAAACGCCCA	CCACAAATGC	AGTGCAACAAG
631	TGCAGAGTGC	ACGGCTTGA	GATAGAGGGC	AGGACTGTG	GCGAGGCCAC	CGCCAGTGG	ATAACCACT	TCCTGAAGTC	ACAGCCCTAC
721	CGCCTGCTGC	ACTTCGAGCC	TCACATGCGA	CCGAGACGTC	CTCATCAAA	AGCAGACTTG	TTCCGACCCA	AGGACCAGAT	TGCTTACTCA
811	GACACCAAGC	CATTCTTGAT	CCTTCTCTGAG	CGCTCGCTGG	CGGATCTCAA	CTCCAGGCTA	GAGAAAGAAAG	TTAAAGCAAC	CAACTTTCAGG
901	CCCAATATTG	TAATTTTCAGG	ATGCGATGTC	TATGCAGAGG	ATTCTTGGGA	TGAGCTTCTT	ATTGGTGACG	TGGAACCTGAA	AAGGGTGTATG
991	GCTTGTTCCA	GATGCATTTT	AACCACAGTG	GACCCAGACA	CCGGTGTCTAT	GAGCAGGAAG	GAACCGCTGG	AAACACTGAA	GAGTTATCGC
1081	CAGTGTGACC	CTTCAGAAACG	AAAGTTATAT	TGGGAACCGT	CACCTCTTGG	GCAGTATTTT	GTGCTGGAAA	ACCCAGGGAC	CATCAAAAGTG
1171	GGAGACCCCTG	TGTACCTGCT	GGGCCAGTAA	TGGGAACCGT	ATGTCCTGGA	ATATTAGATG	CCTTTTAAAA	ATGTTCTCAA	AAATGACAAAC
1261	ACTTGAAGCA	TGGTGTTTCA	GAACTGAGAC	CTCTACATTT	TCITTTAAAT	TGTGATTTTC	ACATTTTTCG	TCITTTTGGAC	TTCTGGTGTG
1351	TCAATGCTTC	AATGTCCTCAG	TGCAAAAAAGT	AAAGAAATAT	AGTCTCAATA	ACTTAGTAGG	ACTTCAGTAA	GTCACTTAAA	TGACAAAGACA
1441	GGATTCTGAA	AACTCCCCGT	TTAACTGATT	ATGGAATAGT	TCITTTCTCCT	GCTTCTCCGT	TTATCTACCA	AGAGCGCAGA	CTTGCACTCCT
1531	GTCACTACCA	CTCGTTAGAG	AAAGAGAAAG	AGAGAAAGAG	GAAGAGTGGG	TGGGCTGGAA	GAATATCTTA	GAATGTGTTA	TTGCCCTCTGT
1621	TCATGAGGTA	CGCAATGAAA	ATTAAATTGC	ACCCCAATA	TGGCTGGAAT	GCCACTTCCC	TTTTCTTCTC	AAGCCCCGGG	CTAGCTTTTG
1711	AAATGGCATA	AAGACTGAGG	TGACCTTCAG	GAAGCACTGC	AGATATTAAT	TTTCCATAGA	TCTGGATCTG	GCCCTGCTGC	TTCTCAGACA
1801	GCATTGGATT	TCCTAAAAGGT	GCTCAGGAGG	ATGTTTGTGT	AGTCATGGAG	GACCCCTGGA	TCCTTGGCAT	TCCCTCAGC	TAATGACGGA
1891	GTGCTCCTTC	TCCAGTCCG	GGTGAAAAAG	TTCTGAATTC	TGTGAGGAG	AAGAAAAAGTG	ATTCACTGAT	TTCAAGATAGA	CTACTGAAAA

FIG. 1 (cont.)

1981	CCTTTAAAGG	GGGAAAAGGA	AAGCATATGT	CAGTTGTTTA	AAACCAATA	TCTATTTTTT	AACGTATTGT	ATAACTCTAA	GATCTGATGA
2071	AGTATATTTT	TTATTGCCAT	TTTGTCCCTT	GATTATATTG	GGAAGTTGAC	TAAACTTGAA	AAATGTTTTT	AAACTGTGA	ATAAATGGAA
2161	GCTACTTTGA	CTAGTTTCAG	ATCTTACTAA	CTTCTTGSCA	CAAAAGTTAGA	CTGTGAAAGC	TGACTGAGGC	TGGGCACAGG	GGCTCATGCC
2251	TGTAATTCGA	GCACTTTGGG	AGGCCAAGGT	GGGAGAATGG	CTTGAGCCCA	GGAGTTTGAG	ACCAGCCCAG	AAAATATAAT	GGGATCCTGT
2341	CGCTACAAAA	TGTTTTTAAA	ATGCACCTCG	TGTGGTGGTG	TGTGCTGCA	GTCTGGCTA	TGGCTACTCG	GGAGGATGAG	GTAGAAGGAT
2431	TGGTTGAGCC	CAGGAGCGGG	AGATTGAGGC	TGCAGTGAGT	TATGATTGCA	CCACTACACT	CCAGCCTGAG	TGATAGAGTG	AGACCCCTATC
2521	TCTAAAAAAG	AAACAGGAAA	AAAAAAGAAA	GCTGACTGAG	GTGAATGGGC	AAAGCCAGTA	ATTCTGACAC	CTGACCACAG	CTGGGTCTTC
2611	TGCATAATGG	ACCTCCTCAC	CCACAGCCTC	CCAGGCAAGC	ACCCATGTTT	GAAGGACTAT	CAAGTCAACA	TGCTTTTTTAC	CAAAAAGCTGC
2701	ACATTTTTCA	CTTTGATTTT	ATAAAAAGAGG	TCAGTAATCG	CTGAAATCTA	GCTGAGCCCT	GAAGTAAAAGT	TCTGAGCAAA	GAGGTGCATG
2791	TGCTTGTGTTT	ATGGTTGGTG	AATTATTACA	GTTTGTGTTT	TGCATGCTTG	GCATGAGGTG	AATAATTACA	TCAATTTTTCC	AGAGAAACCTG
2881	GGCCATCACC	TTCCCCAACA	AGTCCAGTTG	ATGTTGAAAC	TACAGATAGA	TTGAGACAAA	GCGAAGTGTT	CAGCAAGTAG	CATTACTAAT
2971	GGGACCGGGG	GACCCGTGGG	AGAGTGAGTG	TACACAGGAT	TTAGGAAAACC	ATGTGAATAT	GGGCTCTCTG	GGAATAGCCA	ATAGGTAGGG
3061	AGCAATCAGA	AACCCCAAGGT	TTGGTGGCTC	TTCTTAGGTA	TTTATAAATTA	GTGGCAAGTG	AAAGCCTTAG	TCCTGAATTT	CTAACCACCTT
3151	GTAAGAACTA	ACAGCCACTT	CTCTGTGCCC	CGTCCGGGCA	GTAACCATCA	TTCTCCATGG	ACAGGCTCTC	GGGTAGCTA	GCTCTGCAGG
3241	GCAGCACCCA	CGTGGAAAGG	AGCACCCAGA	AACCCCTCCTC	ACTGGGCAGA	CCTGTCCCTT	TGTGCCCTCAC	AGTGTGAGGA	AGATTCCCTGT
3331	TTGAAGAGAG	AAGTTCCAGT	GACCTCTAGA	ATCTCAGAGT	AGTTGCCAAG	CTTTCTGTCA	GTGAGATTTA	AAGGCCATTT	ACTTGTGTTT
3421	ATTTTATATT	TAATGAGTTG	GTTAATGCCA	GAGACAAAGC	TGATATCCCA	TTTATTTTGG	ATACTGAGCA	TTTGCACACT	ATTCCACTTG
3511	AAATATAGAA	TCAGGAATGT	AGGCCATCCC	AGACTTTTCAG	ATCTTACAAC	AGCAAAATGAC	AGATGTTTGA	GATCAGGCCA	AAATATCCAC
3601	CCTCGGTGGG	CATCTCCTCT	GTGTGGCAAC	TTATGTGCA	GCCACAGTGG	GGAGTCACAA	ACTCAGAGCT	GGAGTCTTTG	AAAAAGGACAA
3691	TGTGGGCCAG	GCTCGGAGG	GGCTGCCTAA	AGGCTTGCTT	TTGTGACTCT	CCTGCAGAAA	ATGTTAGAAA	CTTCCAACCG	AAAGACGAGG
3781	GCAGCAACTT	ATACACACGA	AGGCAGAAAAG	AAATTGGGGA	AGGGAGGCT	GTTGGAATTC	AGGCCGTTGT	CCTATAGGGA	GAAATACTCC
3871	TCCTCTCCTT	CTCCCTTTAC	TGATAACGGG	GCATGGTGAG	GAGATGAGCT	TGTGAGGGTC	TGCCAGTTTG	GTAAGAGTGC	ATGGGGAGGT

FIG. 1 (cont.)

3961 TGGGTAAAT AGACTAGCCA AATGGGACTT CGGAAACCA TTTATGAGGC TGTACCAAC AGTGATGGCA GGCTGAAAT CCAGGCAAGT
 4051 GCTCCAGCA TTCCAAGAGT GTATCAAAAT AAAGCAACCC ATGATGGTGG AGAACAGATA CATTAAAGTT CCTTGAAAA GACAGAGTGG
 4141 CTCTCAGACC AGACCTTGAT TGTGGGTATA ATCGGAGTGT TGCTACCACA CCTAACACT GCATTTCCCG TGTTTTATTG GTCCATGGAA
 4231 TTCTGAAAGT TTGCCTTTTC GGATGCTTCT AAAACAAT CCATGGACCA GTAAGTTTGG AAAGTCTGTC GTGCCTCACT TCTCTTCAAA
 4321 GGCAAAAGC TCTGGAGAGG CCTTCATGAA GACATCTGTG TTTAATGCTG CCTTCCCAA AGGTCTGTTT TTGACTGTCT TTTGAGAAAT
 4411 GATCCTCTGA TCTCTAGGCA GAATGCCAGT GAGCCAAAGG ATCCAGTTA GCAGGAGGGG TGCACCTCATG GGAAGACTGA AGAAGTTAAA
 4501 AGTTCCCGC AAGTGAAGGA GACCTATCTT GGGACACTTC CCCTTGTCTC CTCCCTTGCC CCTCTTGTG GAGTAAAGG ATGGAACCTGG
 4591 GACTTGATAG GTTAAAGGAG GTGTGGAGAA GTGTCTTAGA CCAGCTCTCC TGTGTGGG CTTAGGGAGA AGCACTCTCT TTCTTCGGGA
 4681 TCATTTTCCA AACATGCATT TTTGGATGGA TAGGTTGGAT CAGGTTGAGG GAAAGGAAAC CAAACTCTCT CTAACCTTGC CTTACAGCA
 4771 ATACCTGTGA TGTAAAGTTAC AAAACCACTT GTGATGAAAG TGCTCCAGGA TGCTTCATGC ACCAGGGAGG GGTGCCCTGT TTCTCTTCTG
 4861 CTAGCTTCTC CTTTCTTTTT TTTTCTTCTT AGCAATCTT CTGCCTCAGC CTCCCGAGTA GCTGGTGTGT CTGGAGTTGG TTCTTCTCTG
 4951 GCTCACTGCA GCCTCTGCCT CCCAGGTTCA CTTCAAGAAT GAAGCCACAG ACCTTCGCAG TGAGTGTTC GGTGTCACCG ACCCAAGTG
 5041 TGGGTTCTTG GTCTCGCTGA CTTCAAGATT TGGAGAGCGA AAGAACAAG CTTCCGGAAG GGTGTCACCG GGTGGCCACC
 5131 AGCAGTAGCA AGATTTATTG TGGAGAGCGA AAGAACAAG CTTCCGGAAG GGTGTCACCG GGTGGCCACC
 5221 TTTTATCCC TTATTTGTCC CTGCCCATGT CCTGCATTTT ACAGAGTGTCT GATTGTTCCA TTTTACAGAG TGCTGATTGG
 5311 TGCATTTTACA ATCCTTTAGC TAGACACAGA GTGCCGATTG GTGAGTTTTT ACAGTGTCTGA TTGGTGCATT TACAATCCTT TAGCTAGACA
 5401 CAGAACACTG ACTGTTGCAT TTATAATCCT CTAGCTAGAA AGAAAAGTTC TCCAAGTCCC CACTAGACCC AGGAAGTCCA GGTGGCTTCA
 5491 CCTCTCACTG GGACTACAGG TGCACACCCAC CACACCCAGC TAATTTTTGT ATTTTAGTA GAGACGGGGT TTCACCATGT TGTTACAGAT
 5581 GGTCTCGAAC TCTTGATCTC GTGATCTGCC CGCCTCGGCC TCCCAAAAGTG CTGGGATTAC AGTTGTGAGC CACCACGCCC GGCCCTAGCT
 5671 TTTCTCTTCT GTTGCAAGTC CTCTCAACTA GTGTTGCCTT CCACCTTACA AAGCAGAAAT ACCTCAGAAG TCCTATGGCC CTGACTCTAT
 5761 CTATGCTGAC ACAAAGCACT ACTGTGCTTT GCTGTCTGCA AGAACAGAGA TTGTTTGCTT CAACCACTTT CTCTGAATGG ATGAATGAGT
 5851 TATGATGATA TCTAAAGTTA CCCAATTTCA AGCAAGAGGA AGAATCTGGC TCGGTACCAC AGATGTTCTT GGAATTGGGA TAGTAAAAAA

FIG. 1 (cont.)

5941 GTCCCTGAGG CATCCCTTGG TCTGCTCTGA CCACACTCTC TTCAAGAGAA GAGGCTTGGG CCACAGCTCT GACTATAACT CTGCTCTTCC
 6031 TCCAAACACA GCTGAGGAAT TGGGTGGTGG GGCACCTGCT CCCATGCTCT GTGGCCTGGC TCAGAGAGAA GAGTTGCCTT AATTACATTA
 6121 TTATTCTTCC TGGACAGGCT GTAGGTTGTG TAAAGTAACA AAAAGGACTG AGAAGTGACT TCCCAATTGAG CCTCTTCCAA GGCCATTTTT
 6211 GATAGGCAGG TCAAAATCAC TCACATTTGG TTATTTGFTG GCCAGTCTAG TGCATTCACC CTTGCTGGTC CTCAGTCATG CTCCTTTTACC
 6301 TTTACAGAGC ATCCTAGACT GCTCTTCCCT TTACCTTCCCT TGTGAAACCC ACAACCCCTA GTCCCTCCCC TTCCCTGGCA TTGTGTTATGC
 6391 CCTCTACCAA TCCCTGACCT GGTATTGGTC AGTCTCCAAT CCTGGTGGAT CCTGTGGGA ACTAAGTTAA GTCTAACTTT TGTCTCCCTC
 6481 TTTAGAAATT ACTGGGAGTA CTGTAAATAA ACTATTGFTG TTATAAATTAT TTCTGATTAA CATTTTTTACA CCTAACAAAG TCTCAGAGAG
 6571 ATTGAATTTA CTGGGTTGAA GGGAGGAGCA CCTTCCACAT GACCTGCCCA GCAATTAAAG CCGCTTGTTA GTCGAGGGCC CAGGACGGCC
 6661 GAGGACAGCT GGAGAGCTCT TCGTTGCAGG CAGCTCTGGT TAACATCAAC CGGGAAAAGCT CTTTGTAAC ACATGAATAA TTGATCGTCC
 6751 AGCGCTCACA TAGCTACCGC GGATCTGAGC CCGTATGACT CATTTGCGAG CCATTCTCTGT CGTCTGGATG CCATAACATT GGAGGAATGA
 6841 TGATCGTTTC TTGGAGGTTT TCTGTGGCC AGAGTTGCCA AGACCAAGGC TGTAAATGGTT TGTATGATG ACCTTTGTTA TTCCATTAGG
 6931 CTCAAATTGCT TTAATAAATG ATGTGTGCAT ACTTTAGGAA CGTTTTTACC CTTTATGTTG ACCTGACATC ATAGTTTATA TTATAAAATG
 7021 TATTAATGAC AGAAGAGTGT TTTCATGTCC CAAGGACAAA TTTTAAACAA CATAATCTGC CCTCAGTCAT CATAAATATA AATGTATTGG
 7111 TCAAACAGAT CTCGTAAATG TGGCCCAAGAT AAATGCAAGT CTATATTTTA AGGCAGTCGA AGTCCTAGAG AATATATCTG GAGCTTTTGT
 7201 GGGGCTAAGA GATCTTGTAT ATATGCTATC AAAAGGCTGA GAAAATTAAC ATGTTCCCCC CTCTGATTTT GCATTGGACA GATATAAATG
 7291 TCTTGGGGAT GTCAAGTAAG ATTGTTTACA TAGTTTCTGG ACACCATTA TGCCTGATGG GGTGAATCTT AGTTCTTAAA GCTATATTCT
 7381 GCTCATTATG CTCACAGGGC TTTTGAAAAG AGAACAATAA AAGATTTC AATCTTAGC (SEQ ID NO: 1)

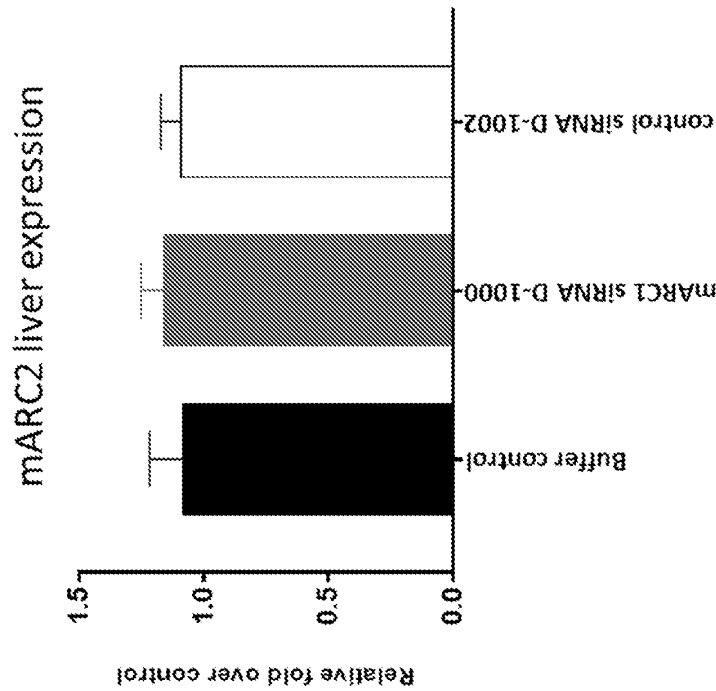


FIG. 2B

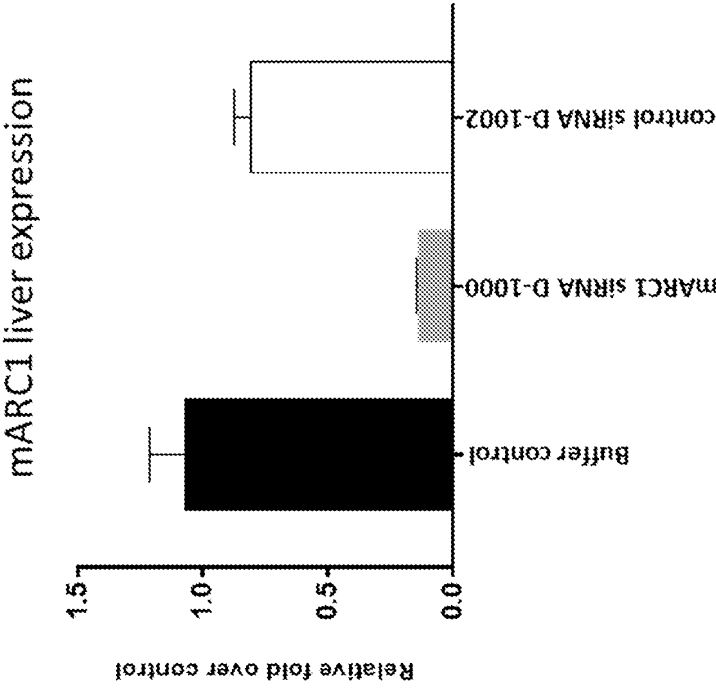


FIG. 2A

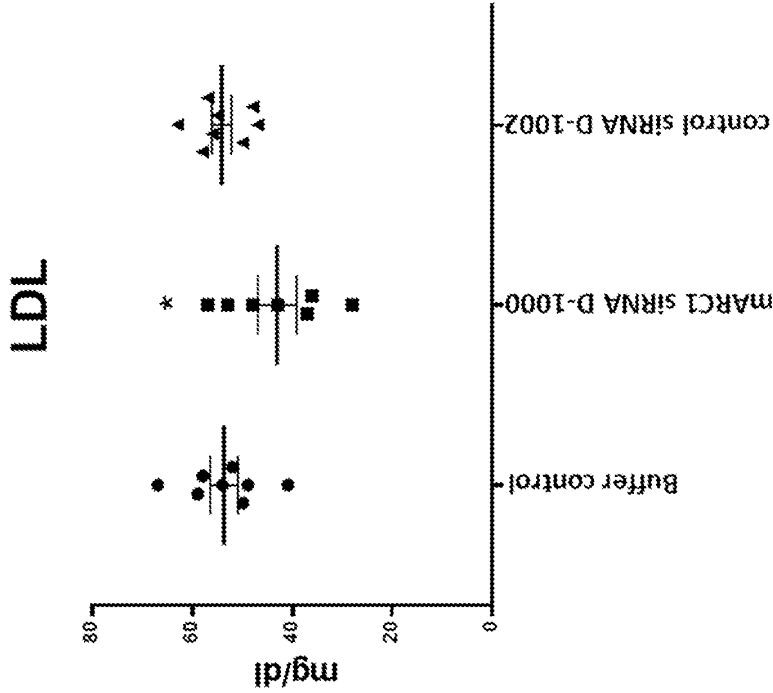


FIG. 3B

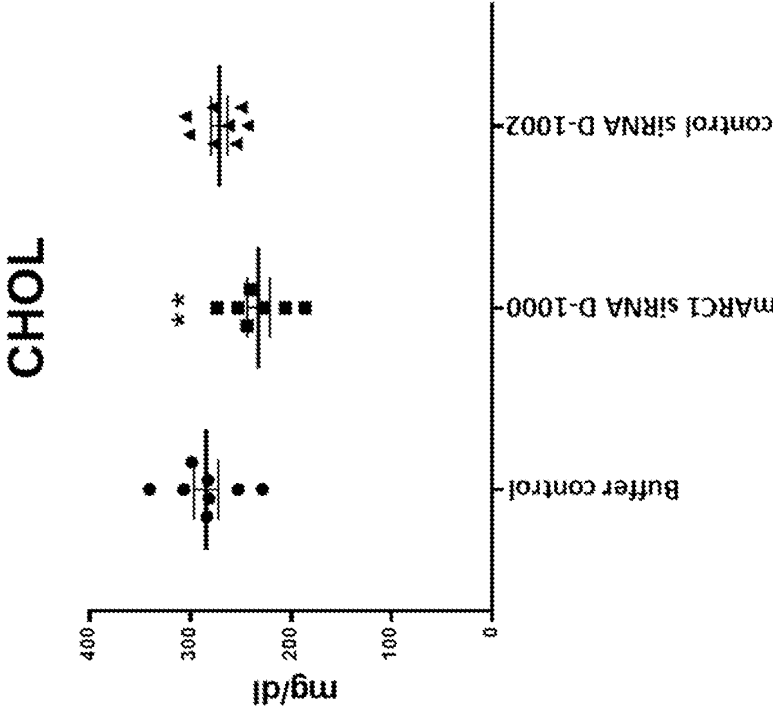


FIG. 3A

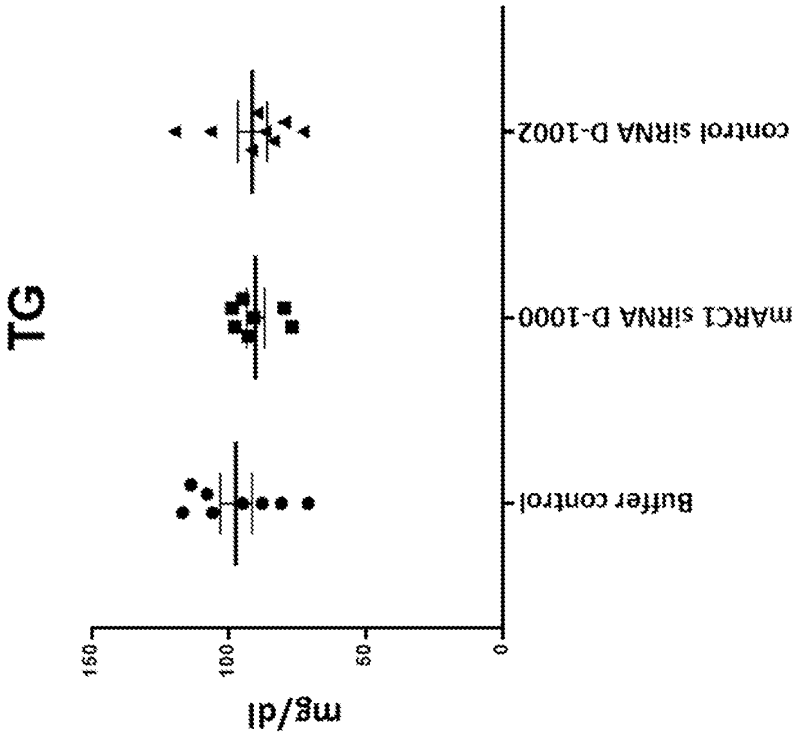


FIG. 3D

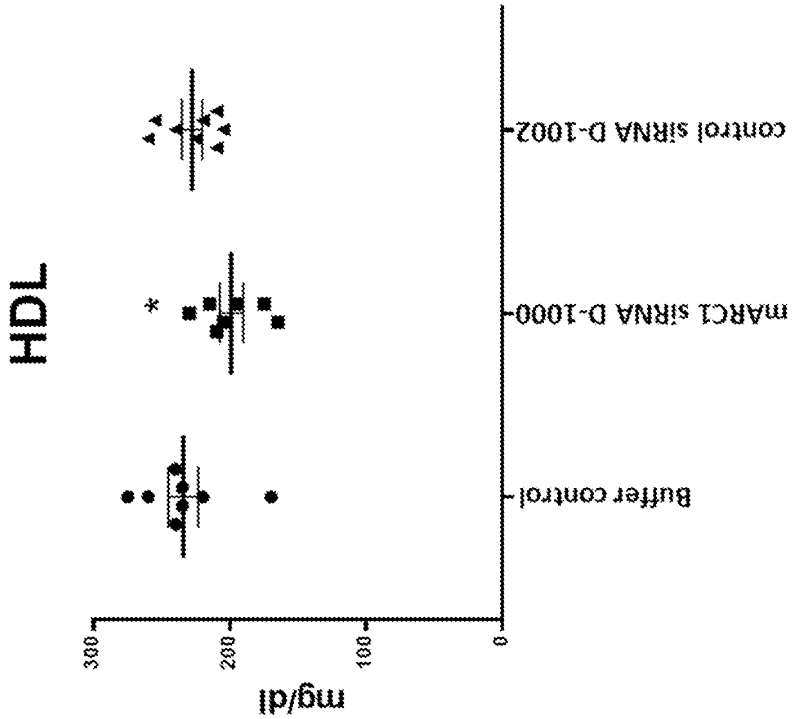


FIG. 3C

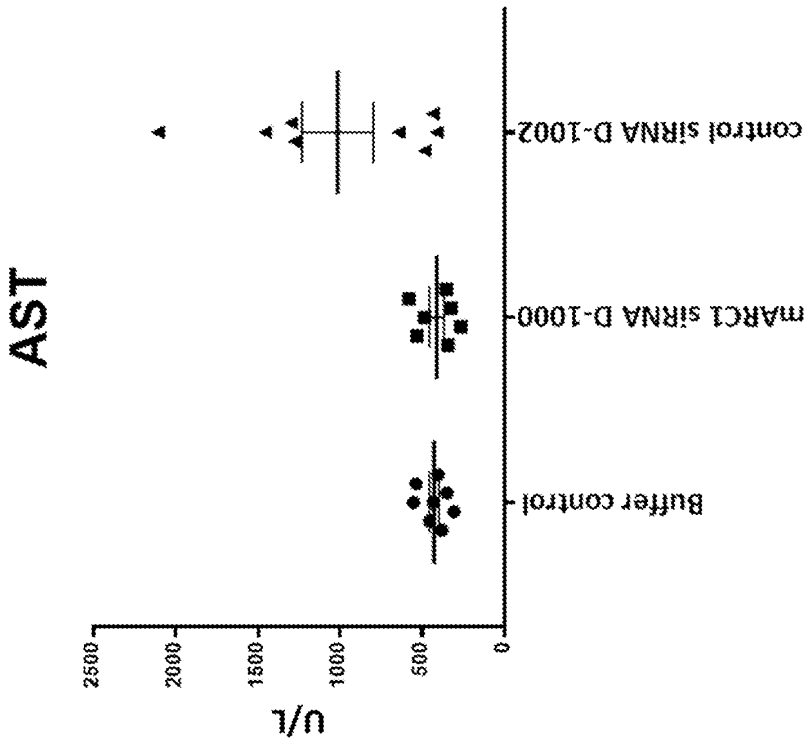


FIG. 3F

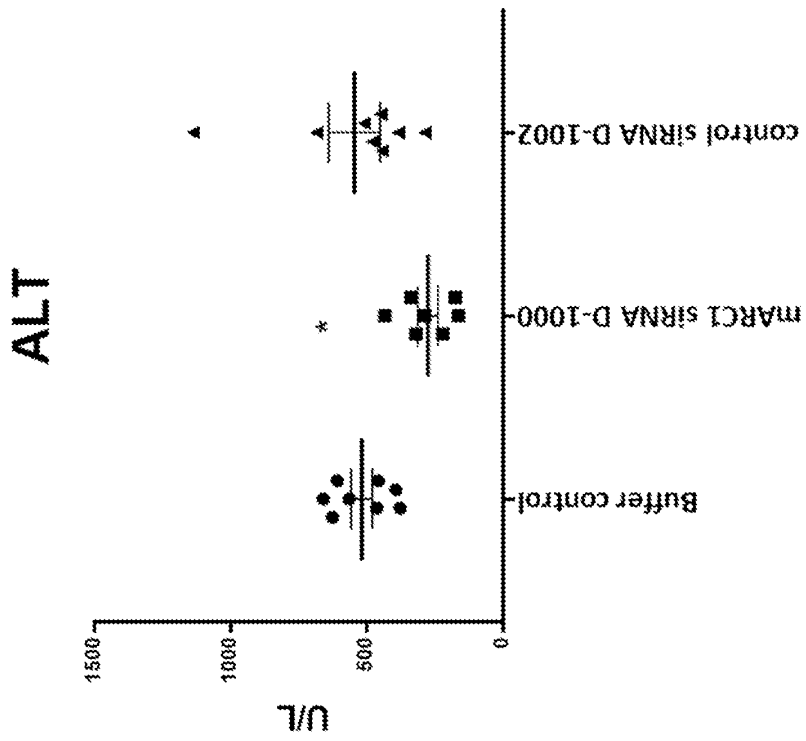


FIG. 3E

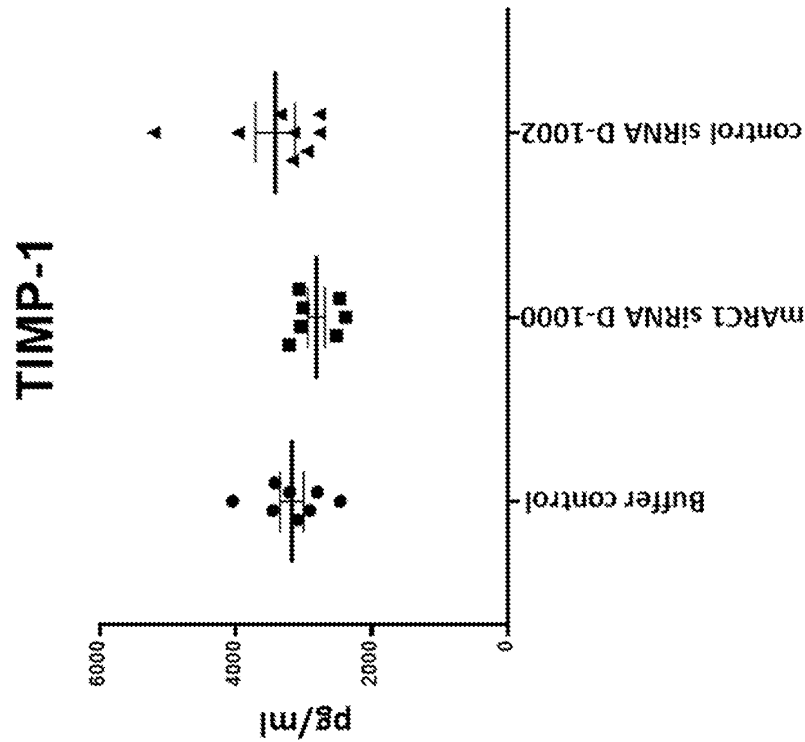


FIG. 3H

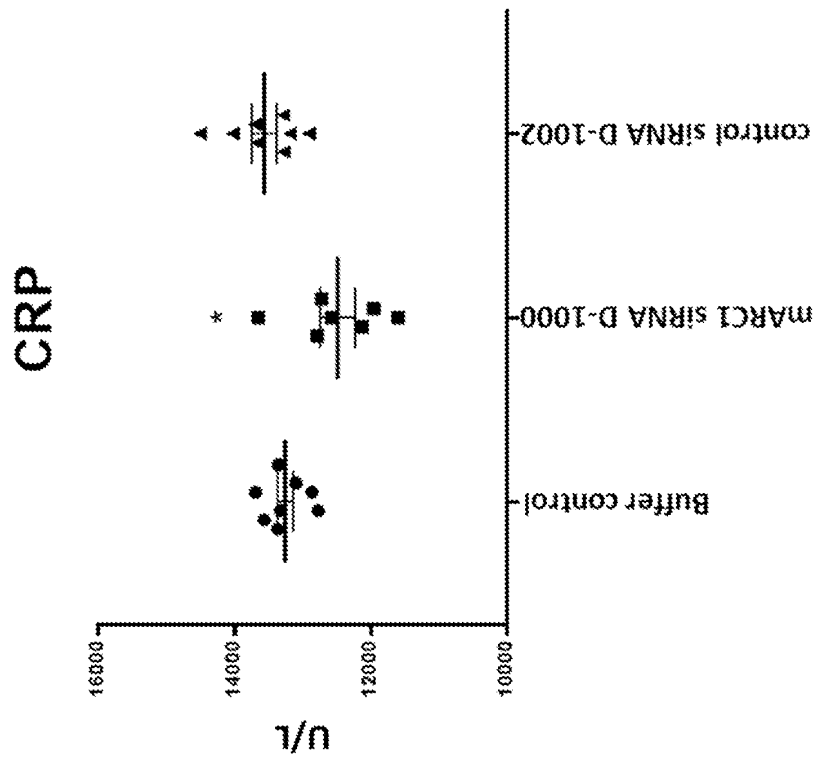


FIG. 3G

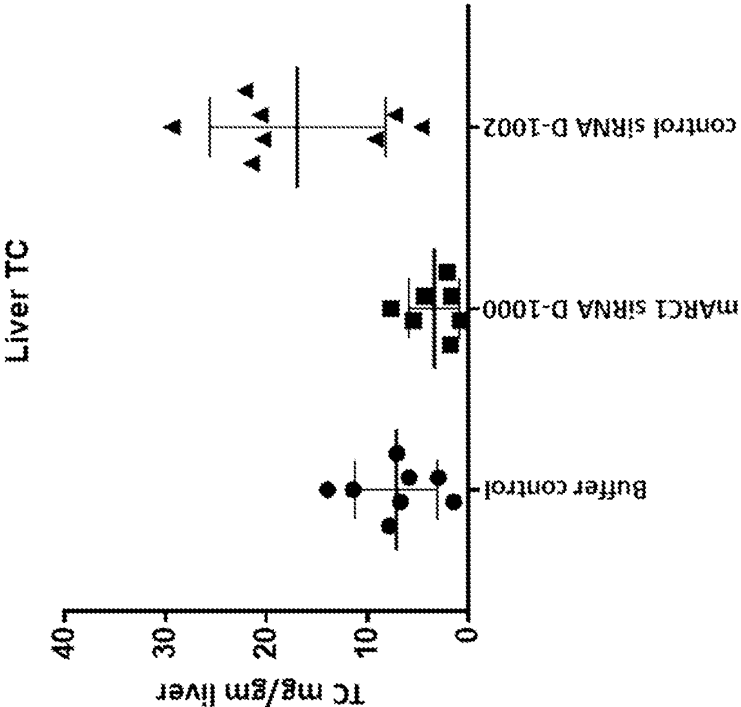


FIG. 4B

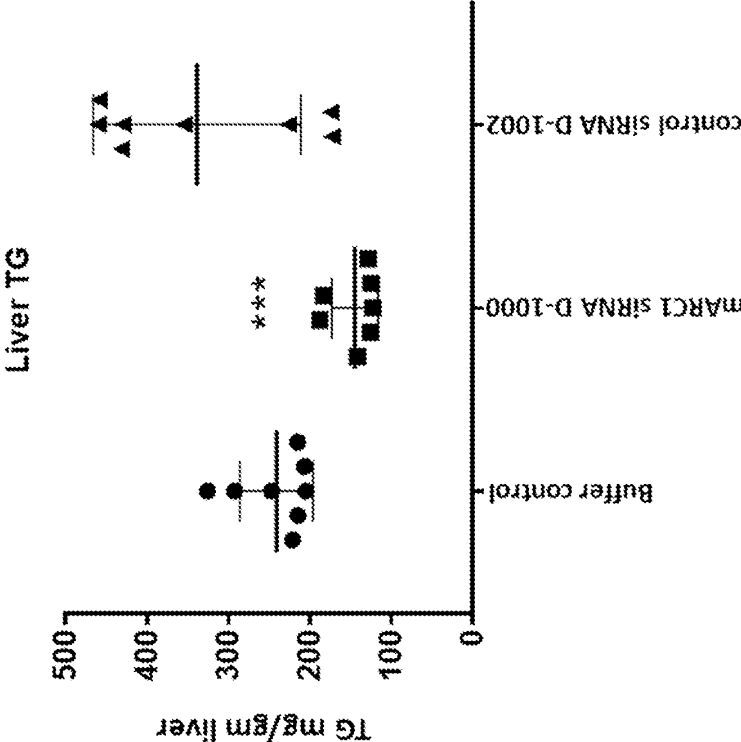


FIG. 4A

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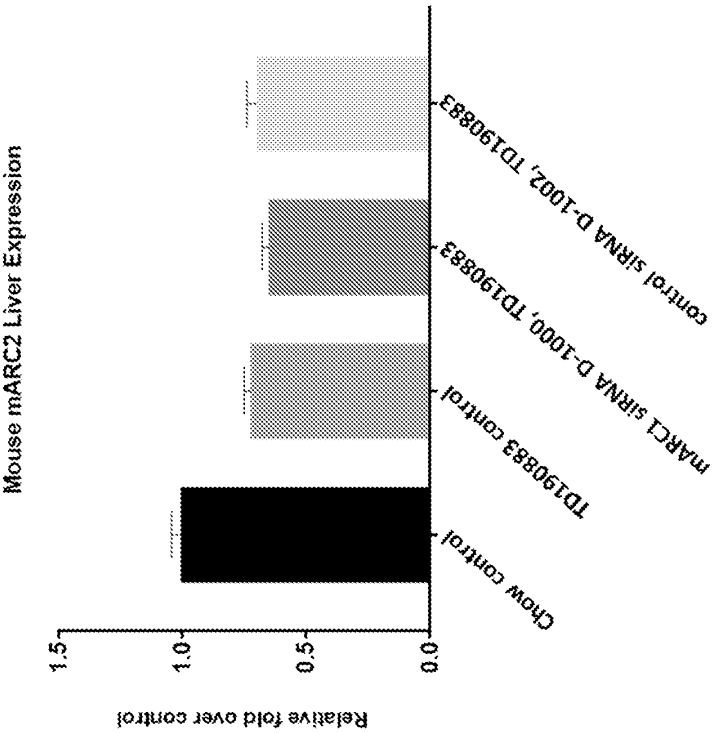


FIG. 5B

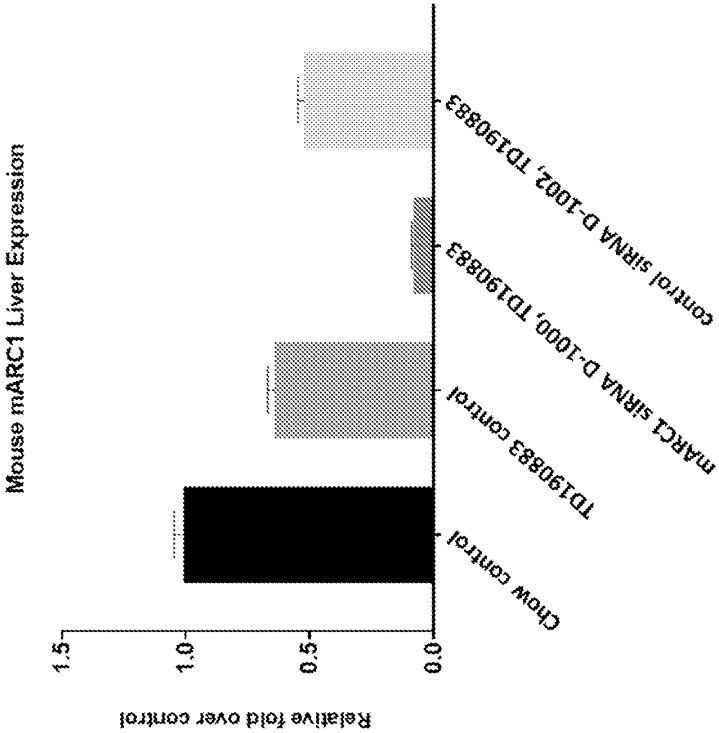


FIG. 5A

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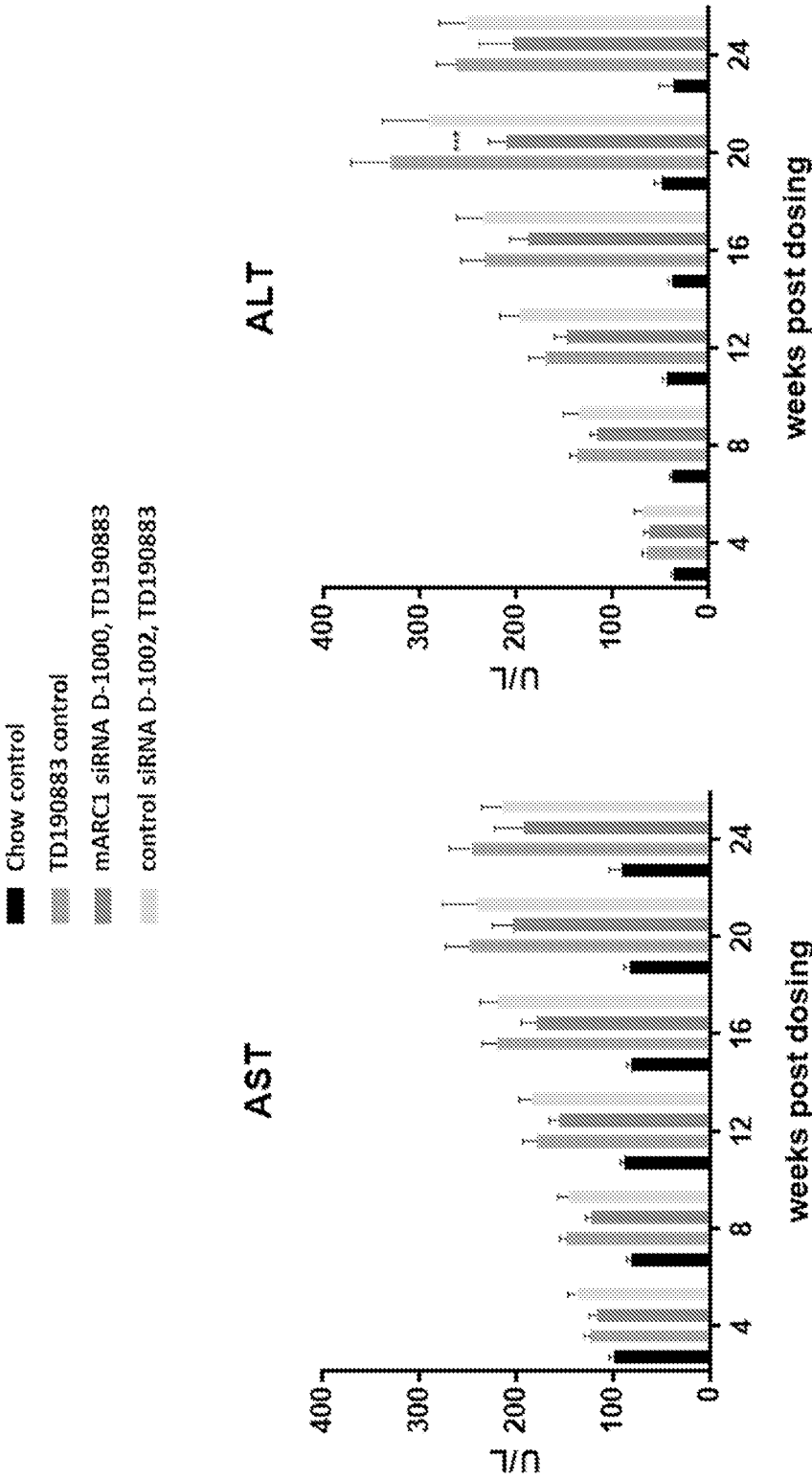


FIG. 6B

FIG. 6A

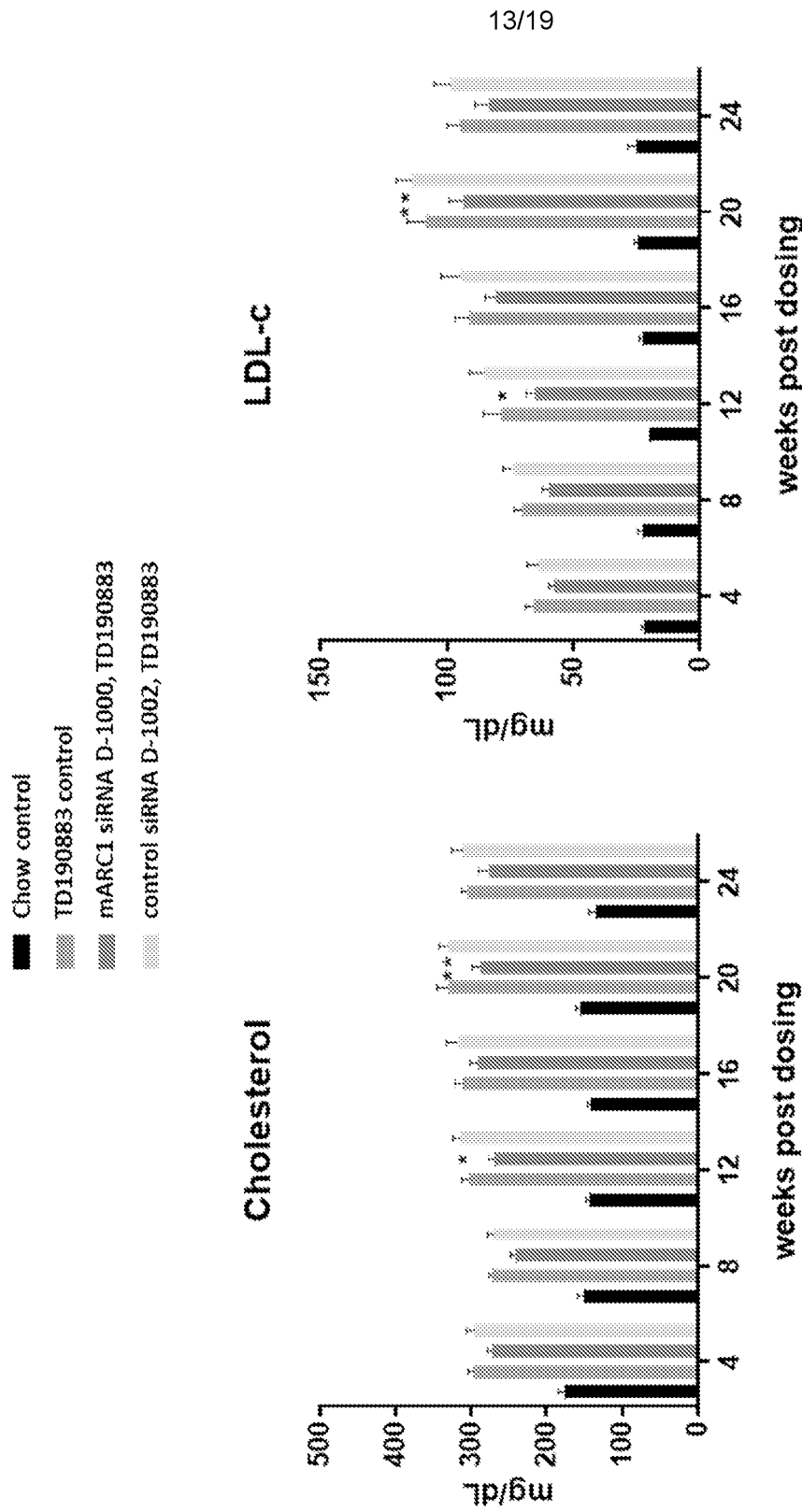


FIG. 6D

FIG. 6C

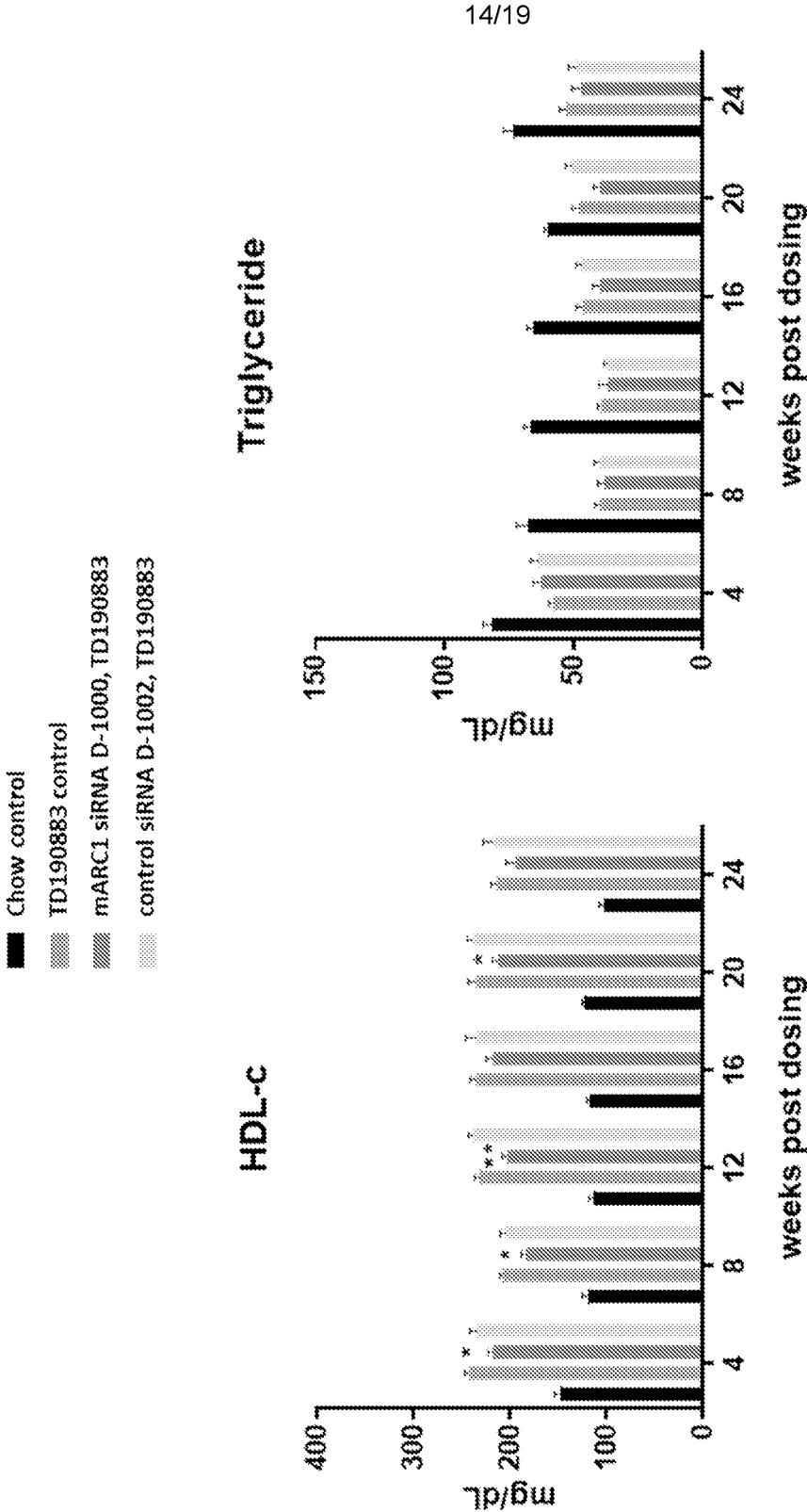


FIG. 6F

FIG. 6E

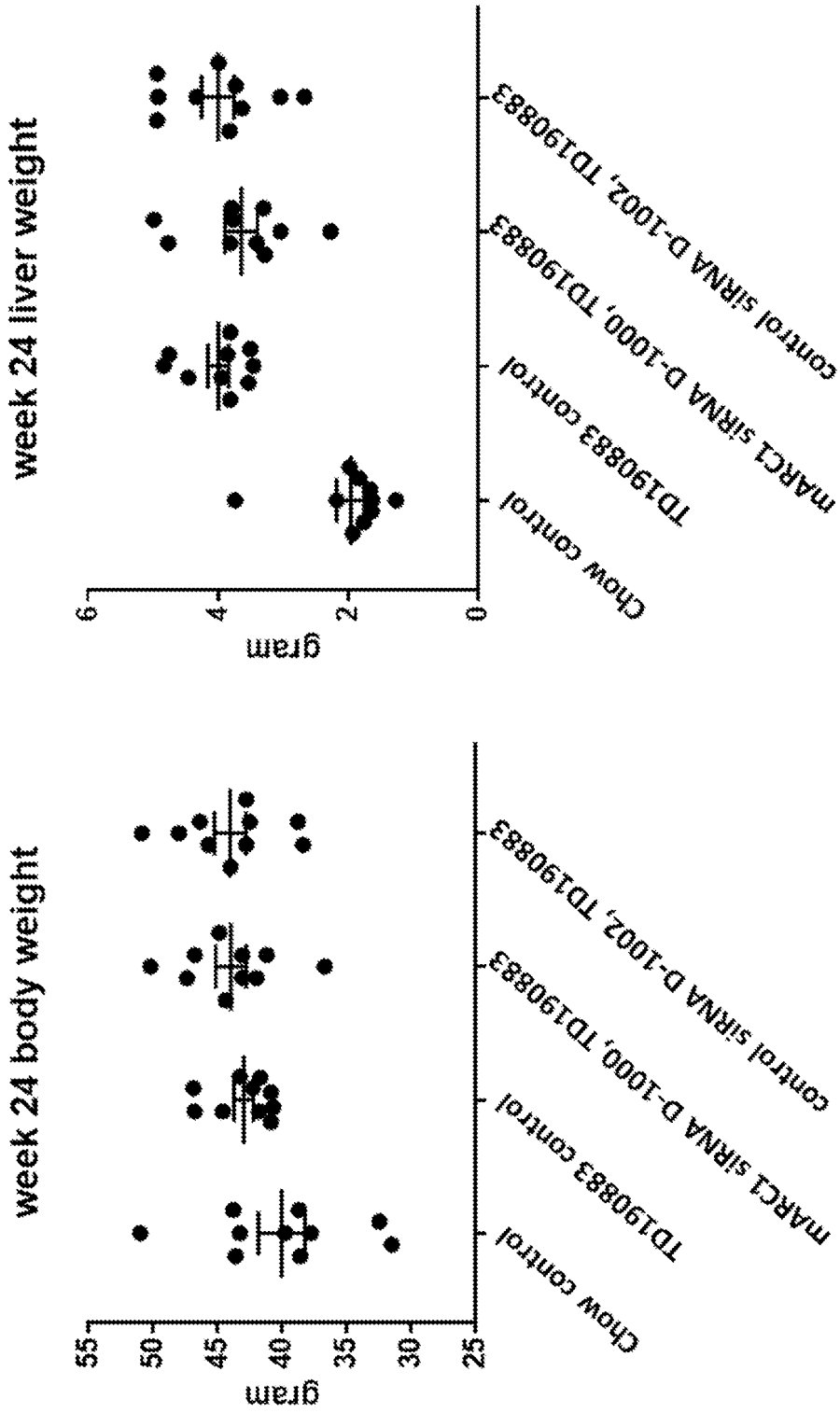


FIG. 7B

FIG. 7A

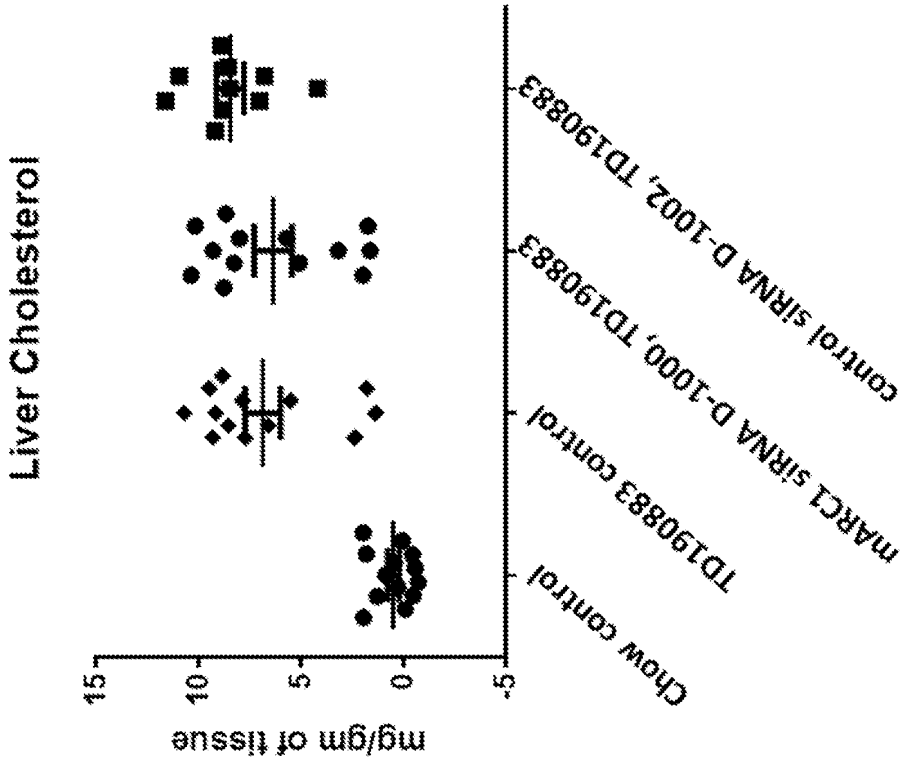


FIG. 7D

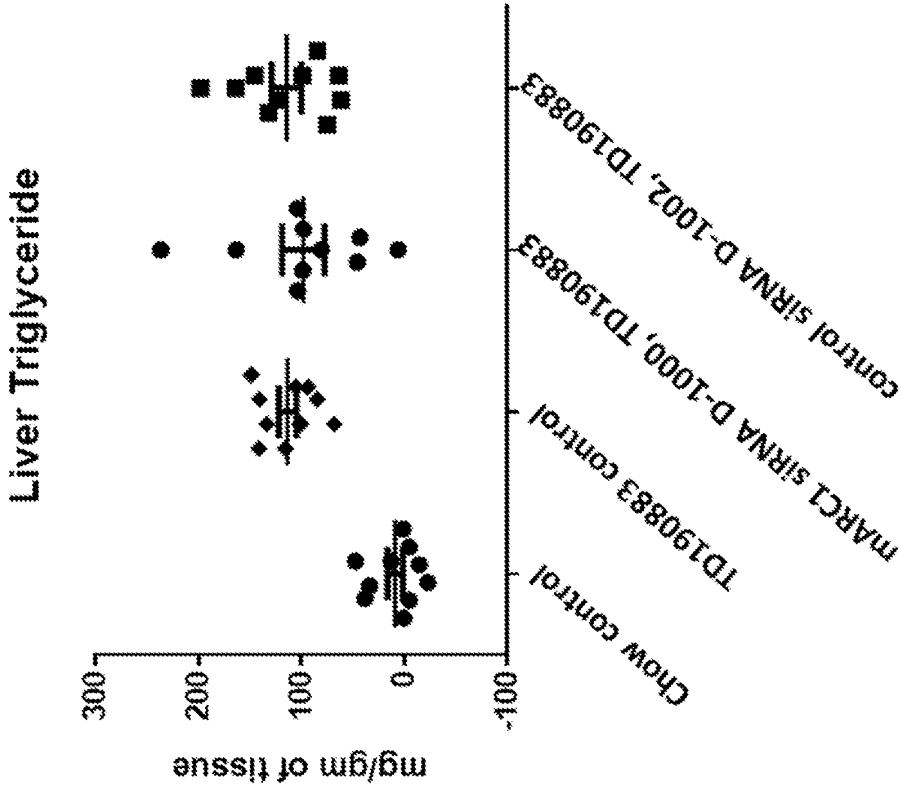


FIG. 7C

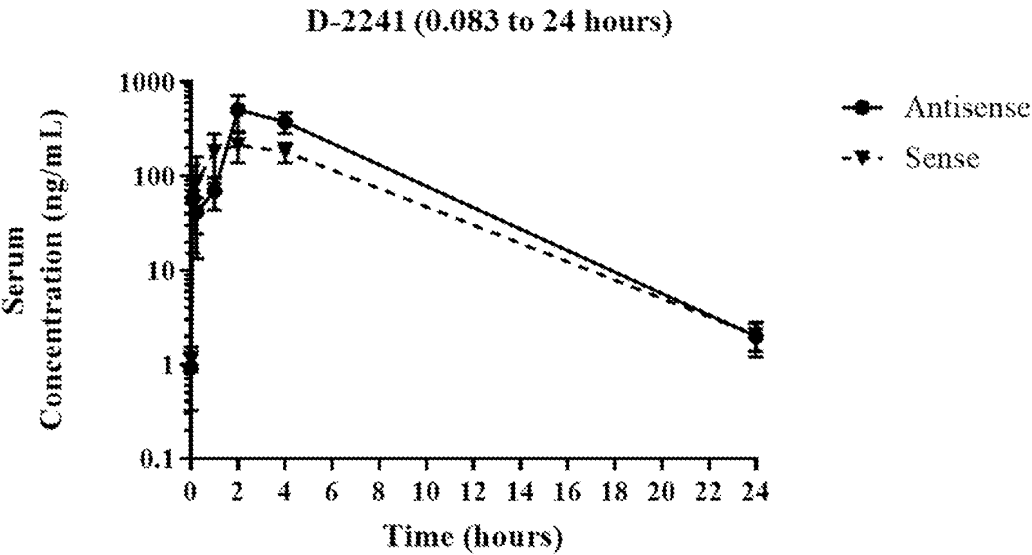


FIG. 8A

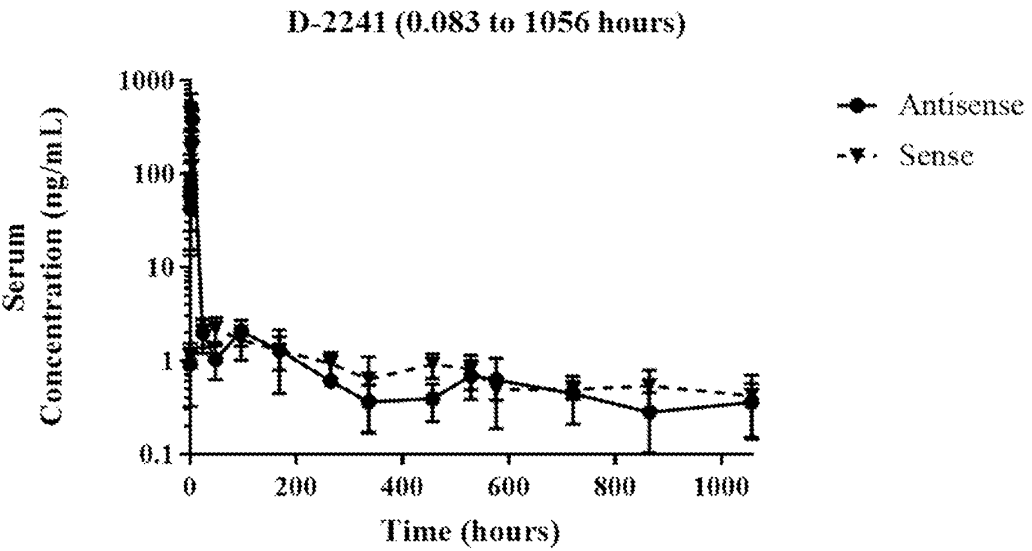


FIG. 8B

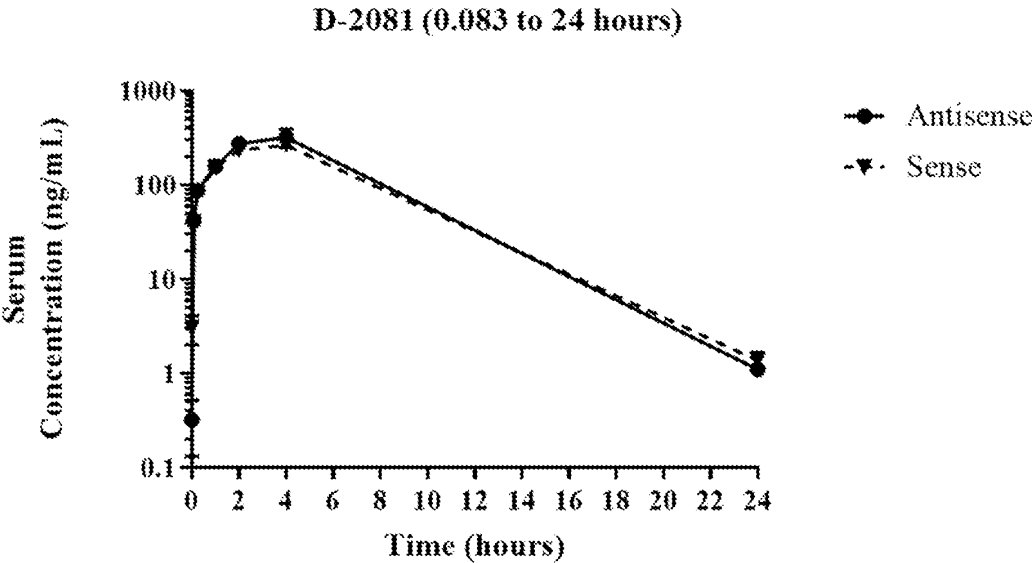


FIG. 8C

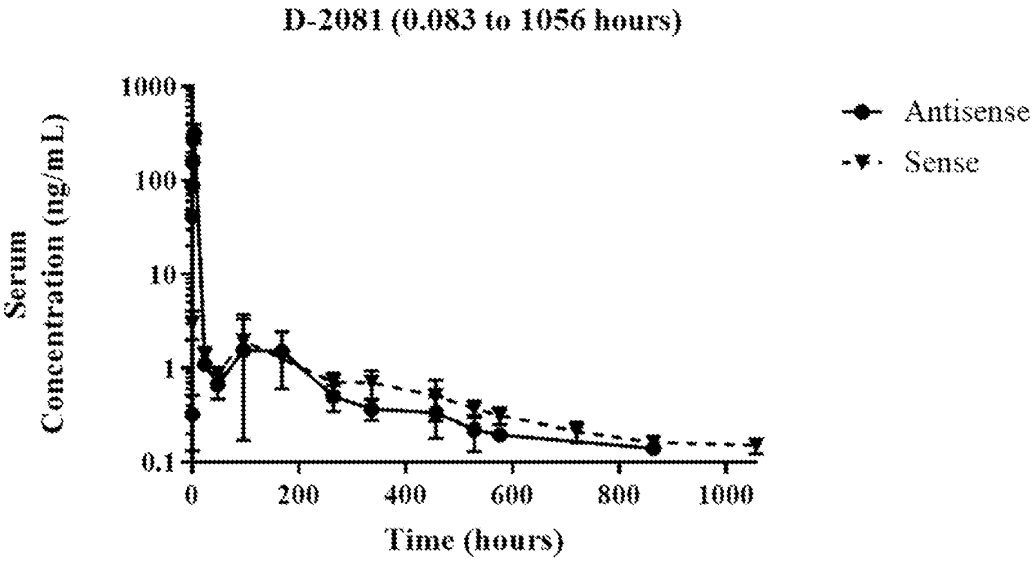


FIG. 8D

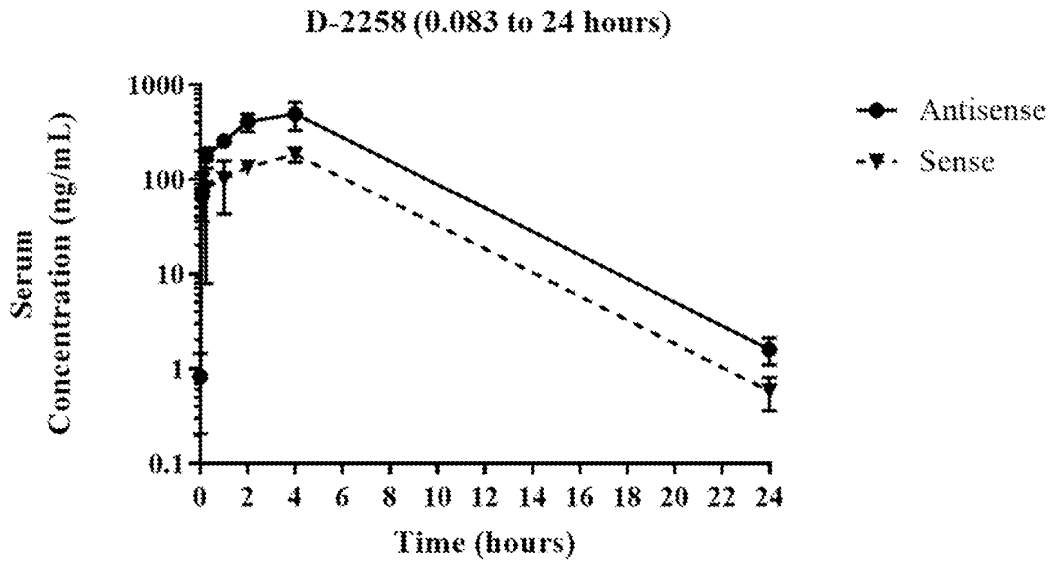


FIG. 8E

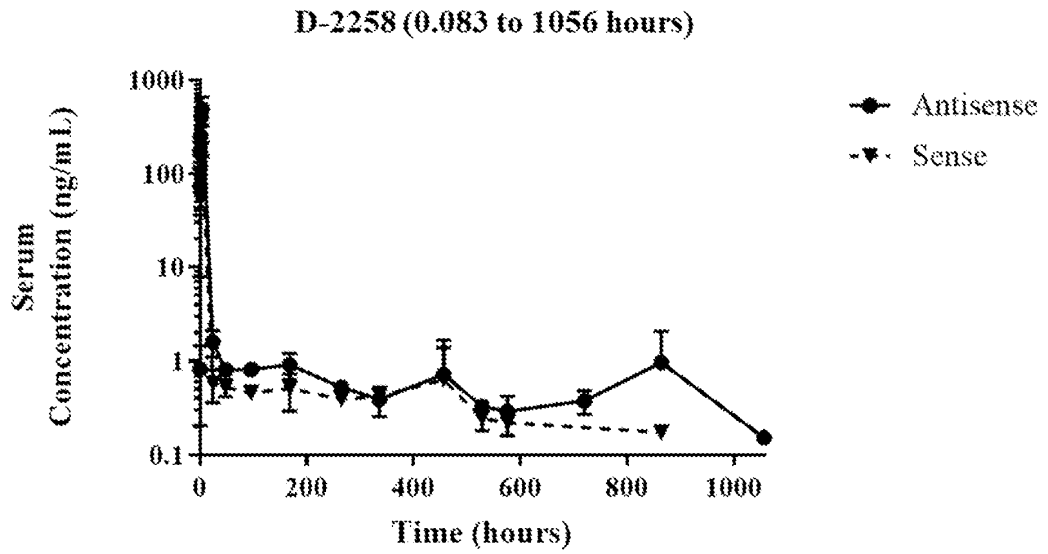


FIG. 8F