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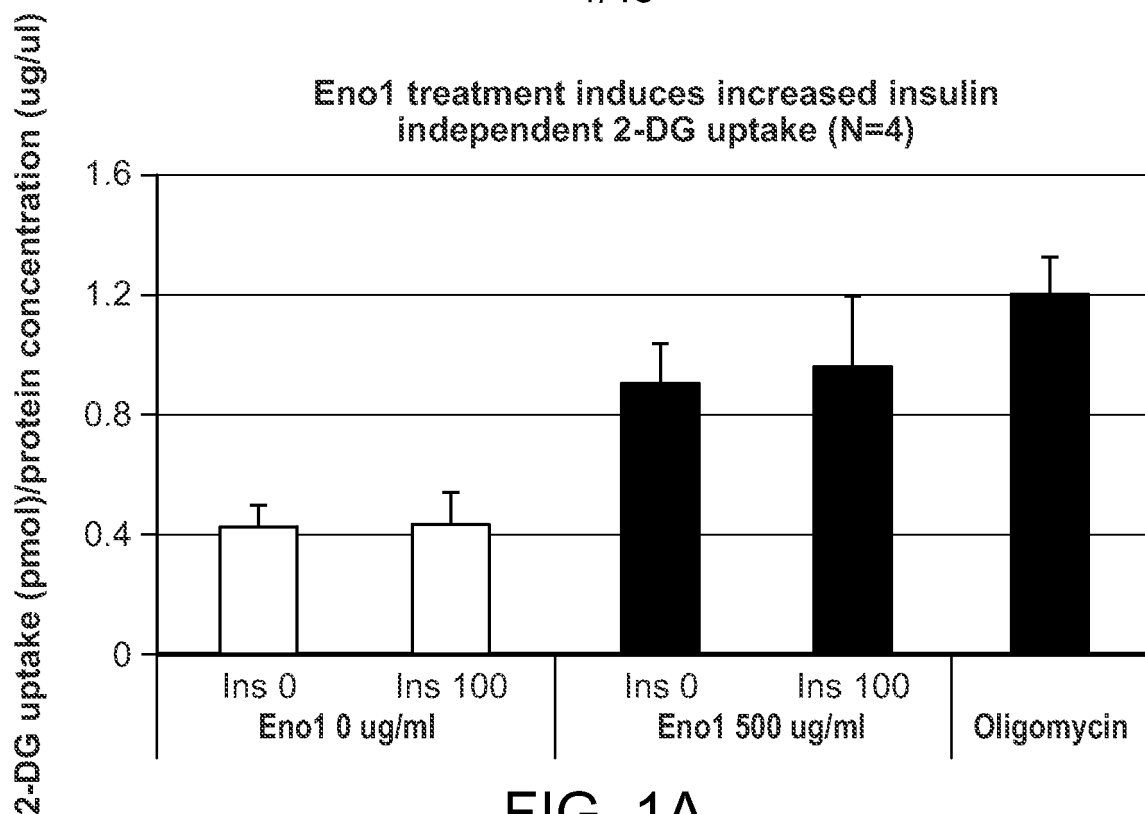


FIG. 1A

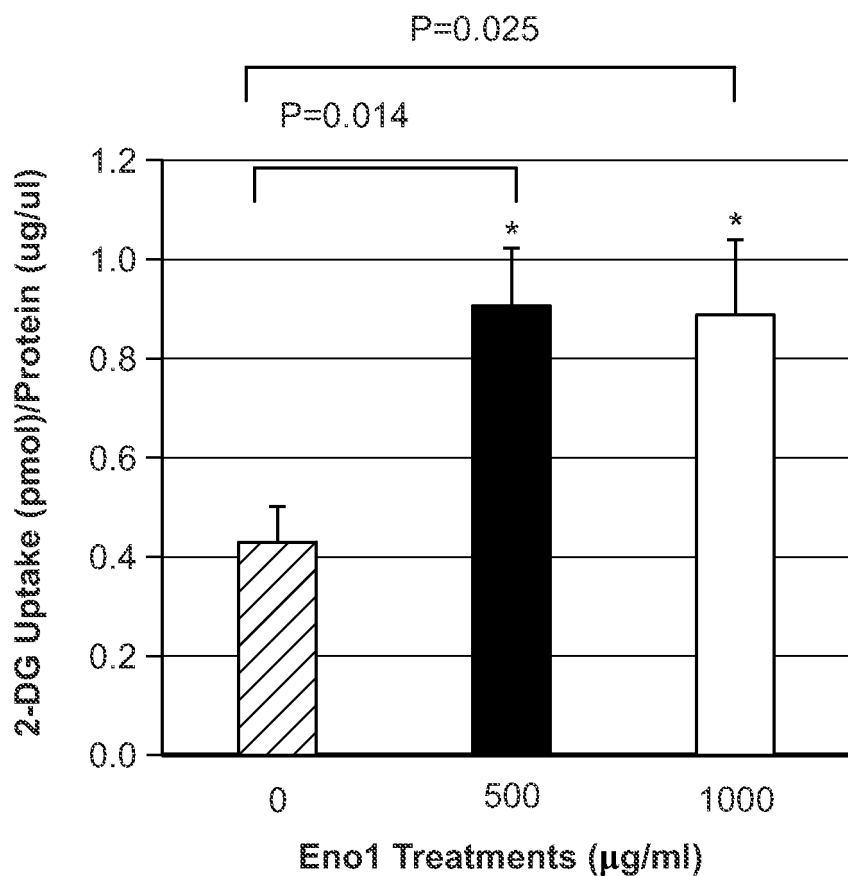


FIG. 1B

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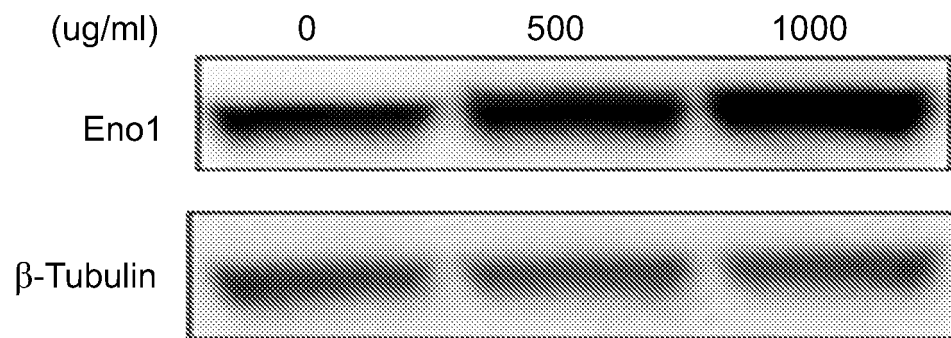


FIG. 2A

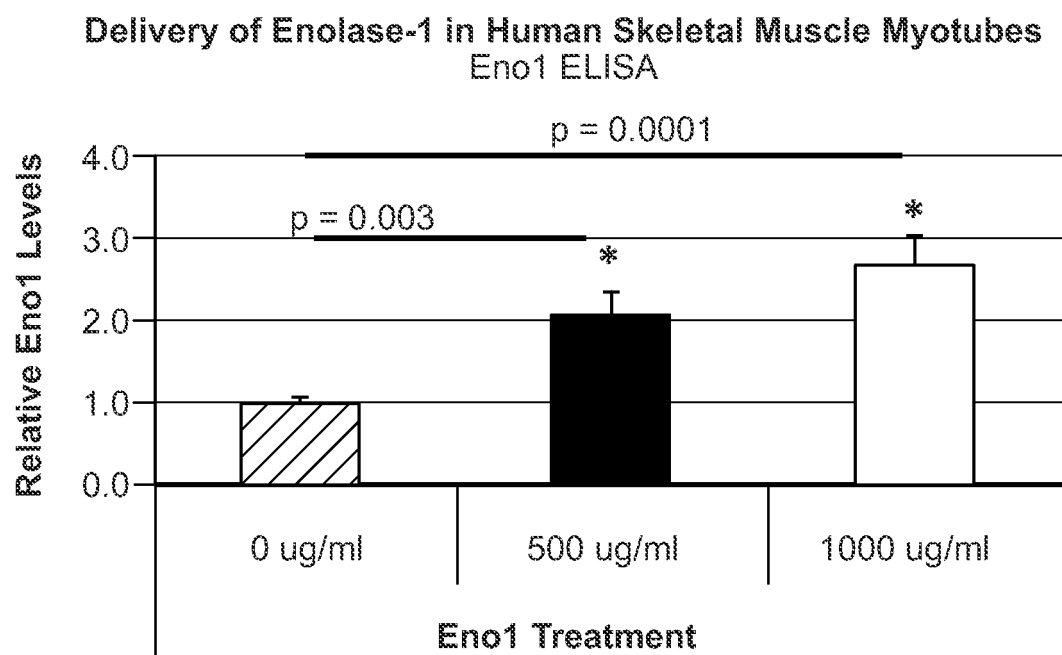


FIG. 2B

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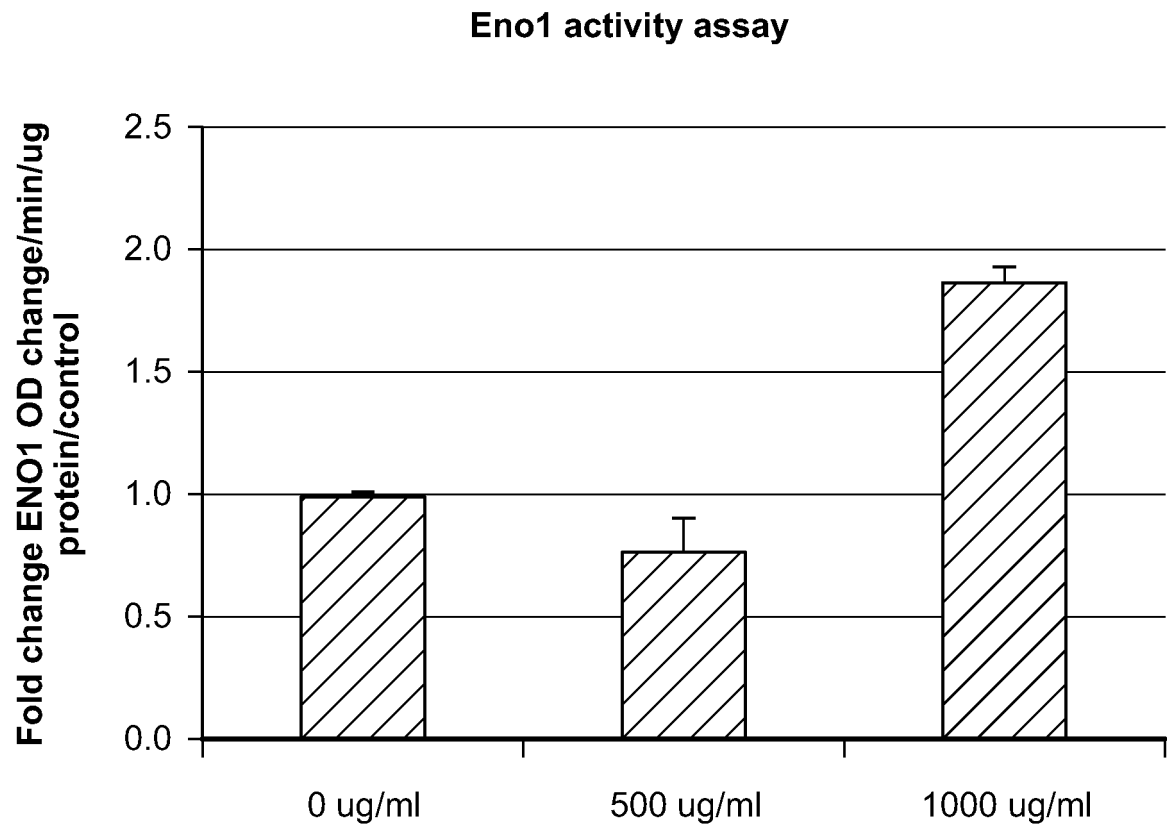


FIG. 2C

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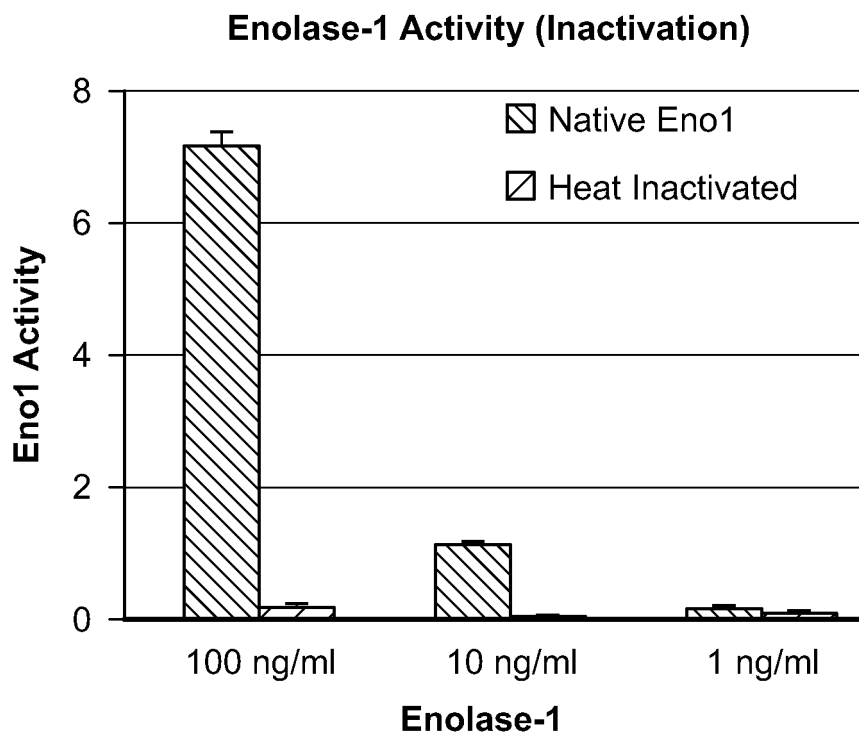


FIG. 3A

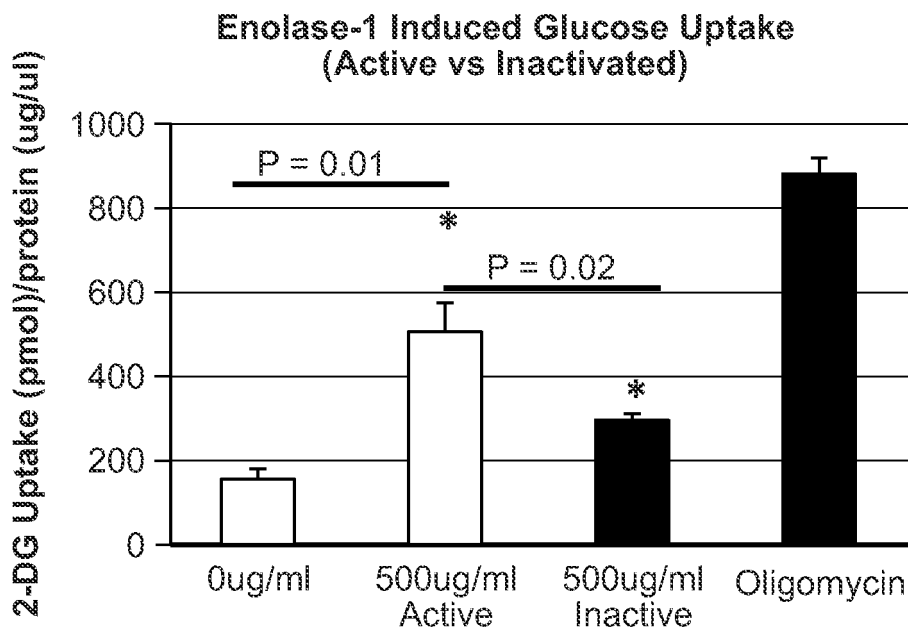


FIG. 3B

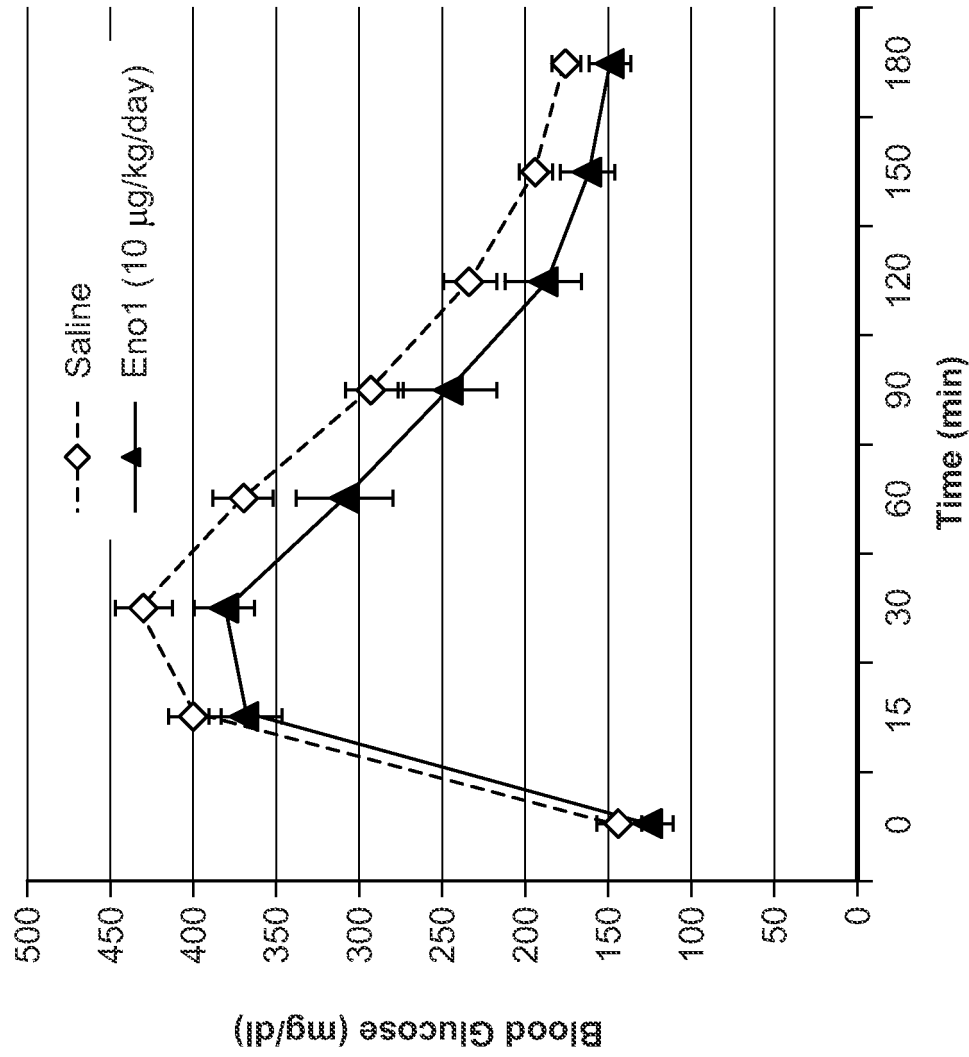


FIG. 4A

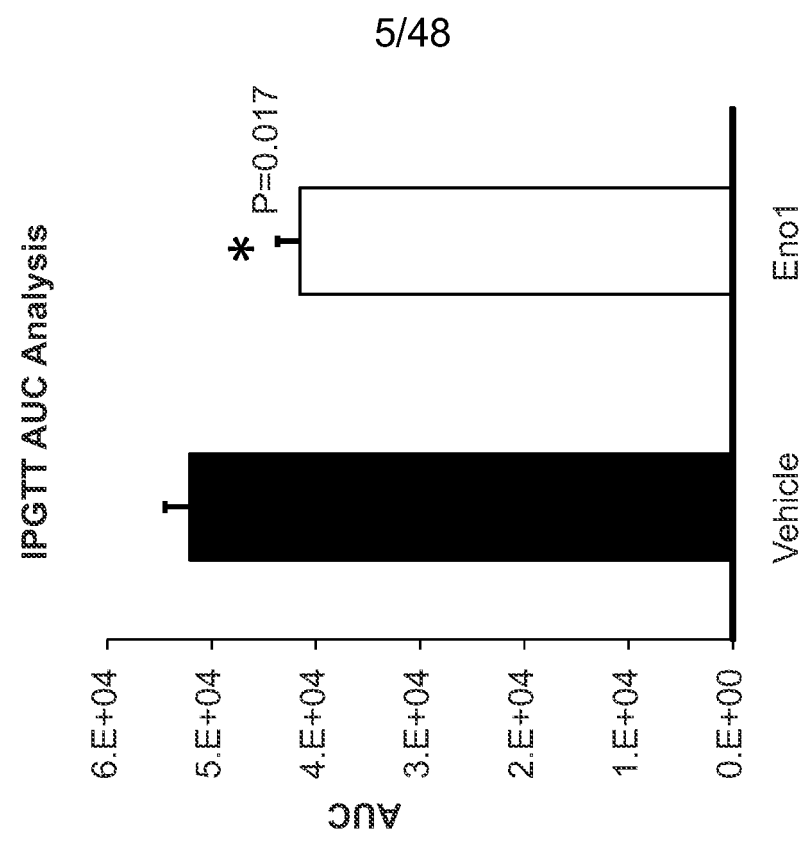


FIG. 4B

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FIG. 7

L1 L2 L3 L4

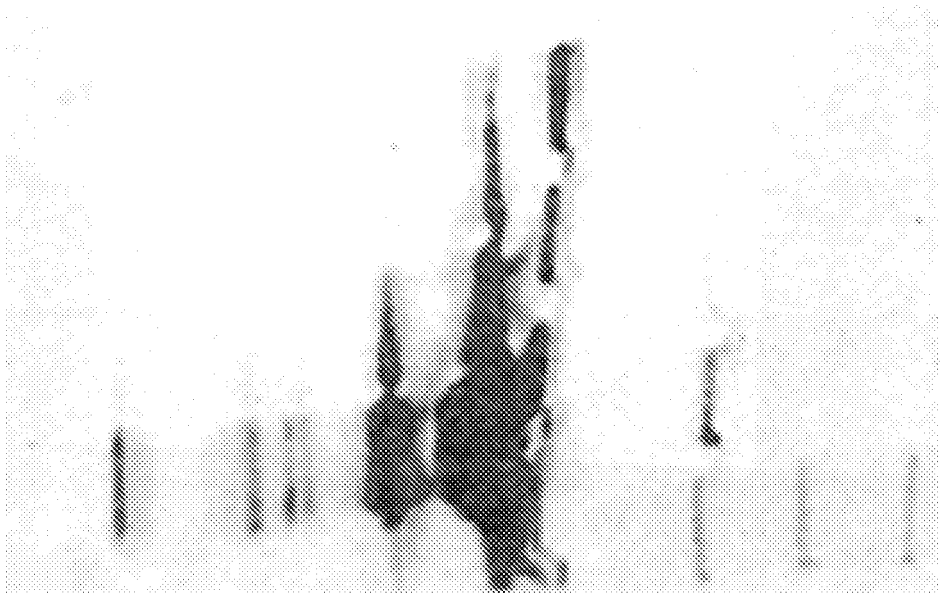


FIG. 6

L1 L2 L3 L4

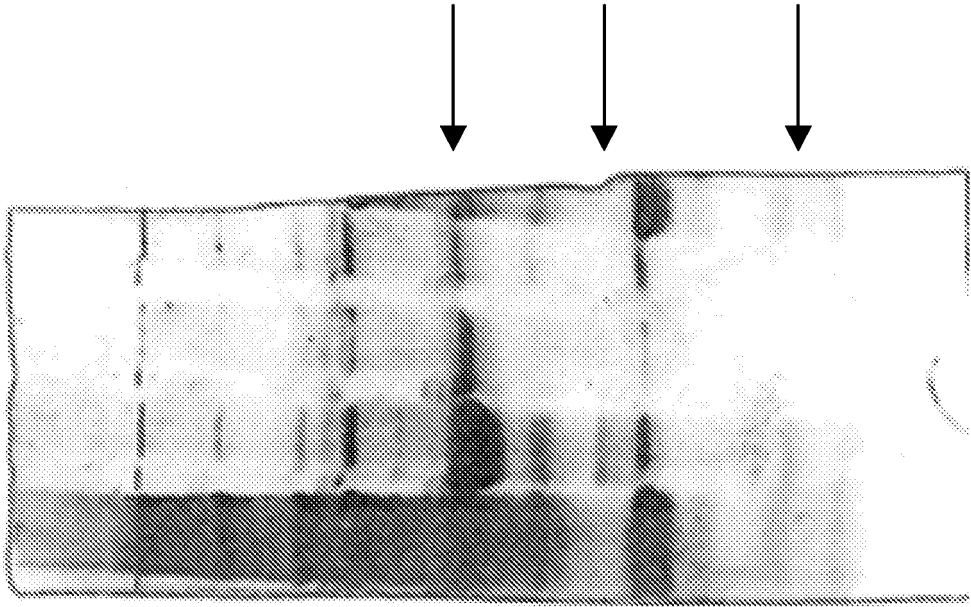
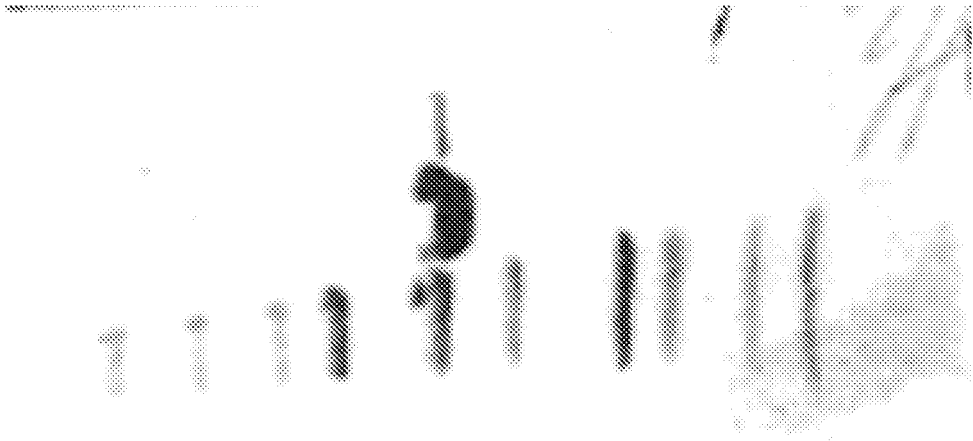


FIG. 5

L1 L2 L3 L4



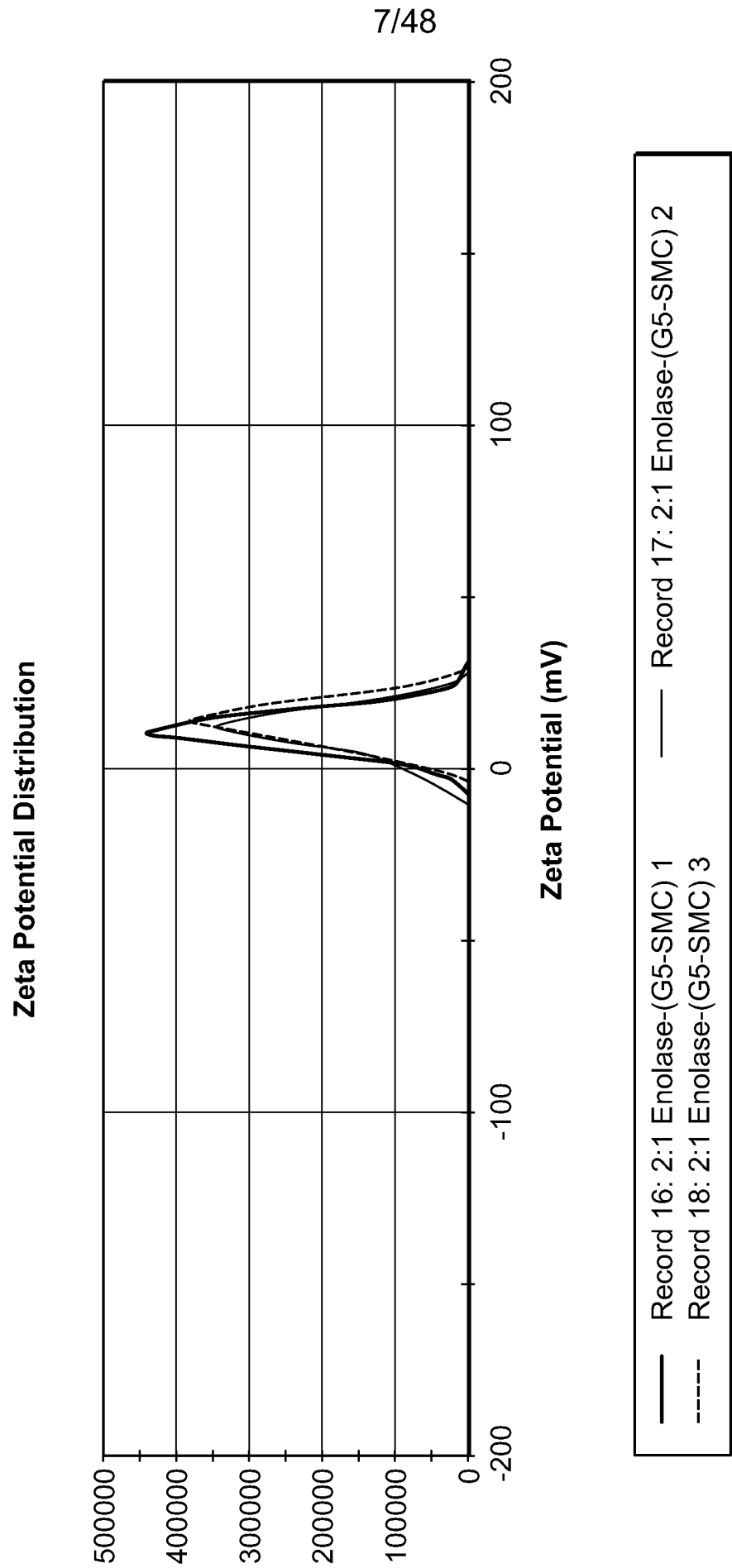


FIG. 8

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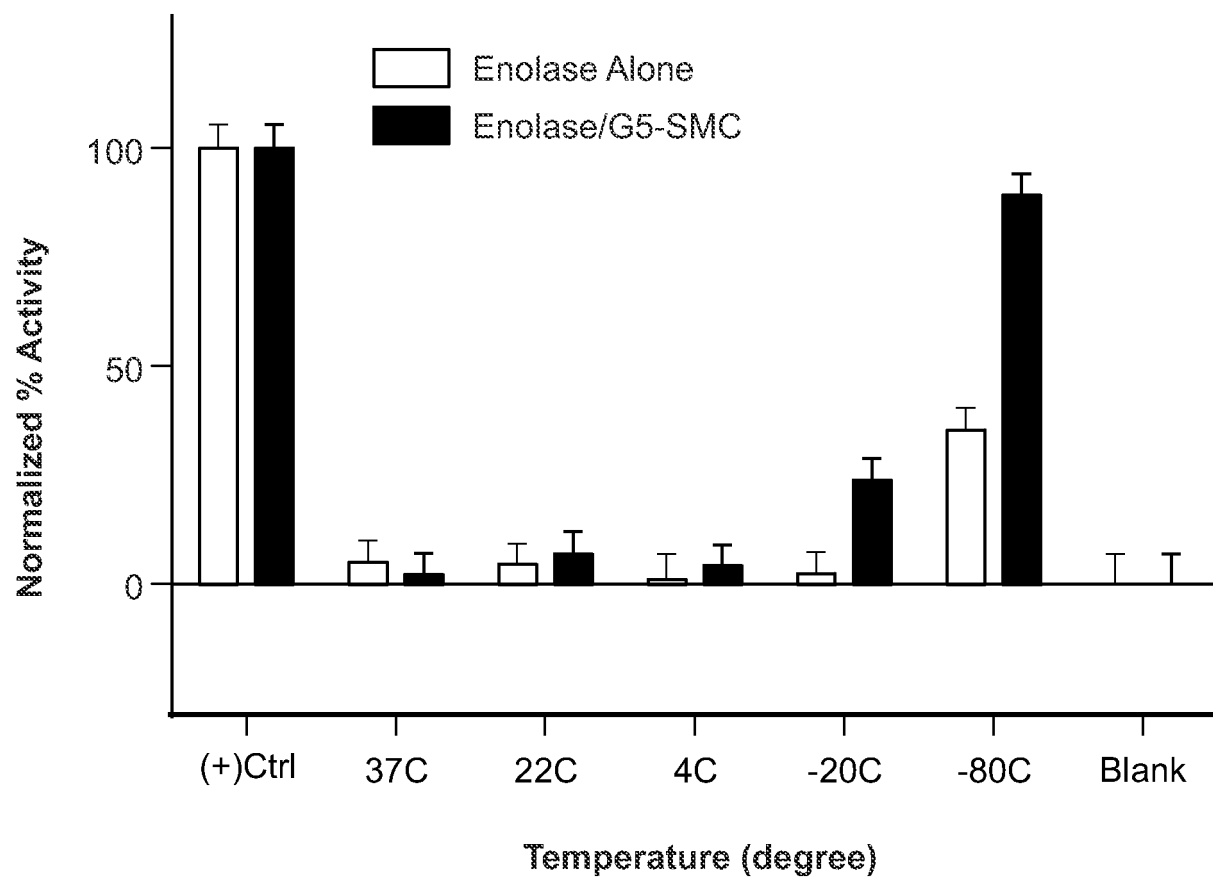


FIG. 9

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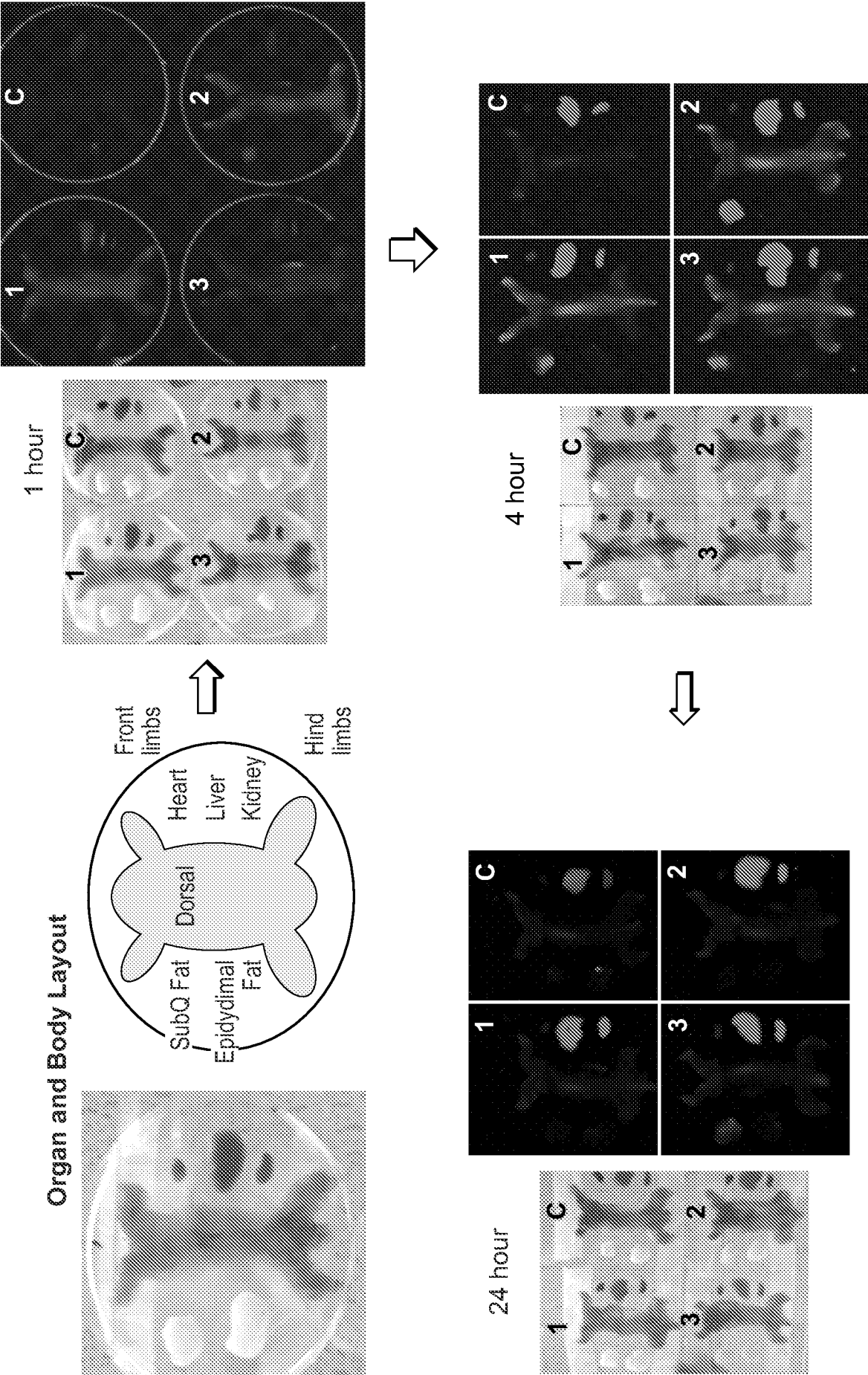
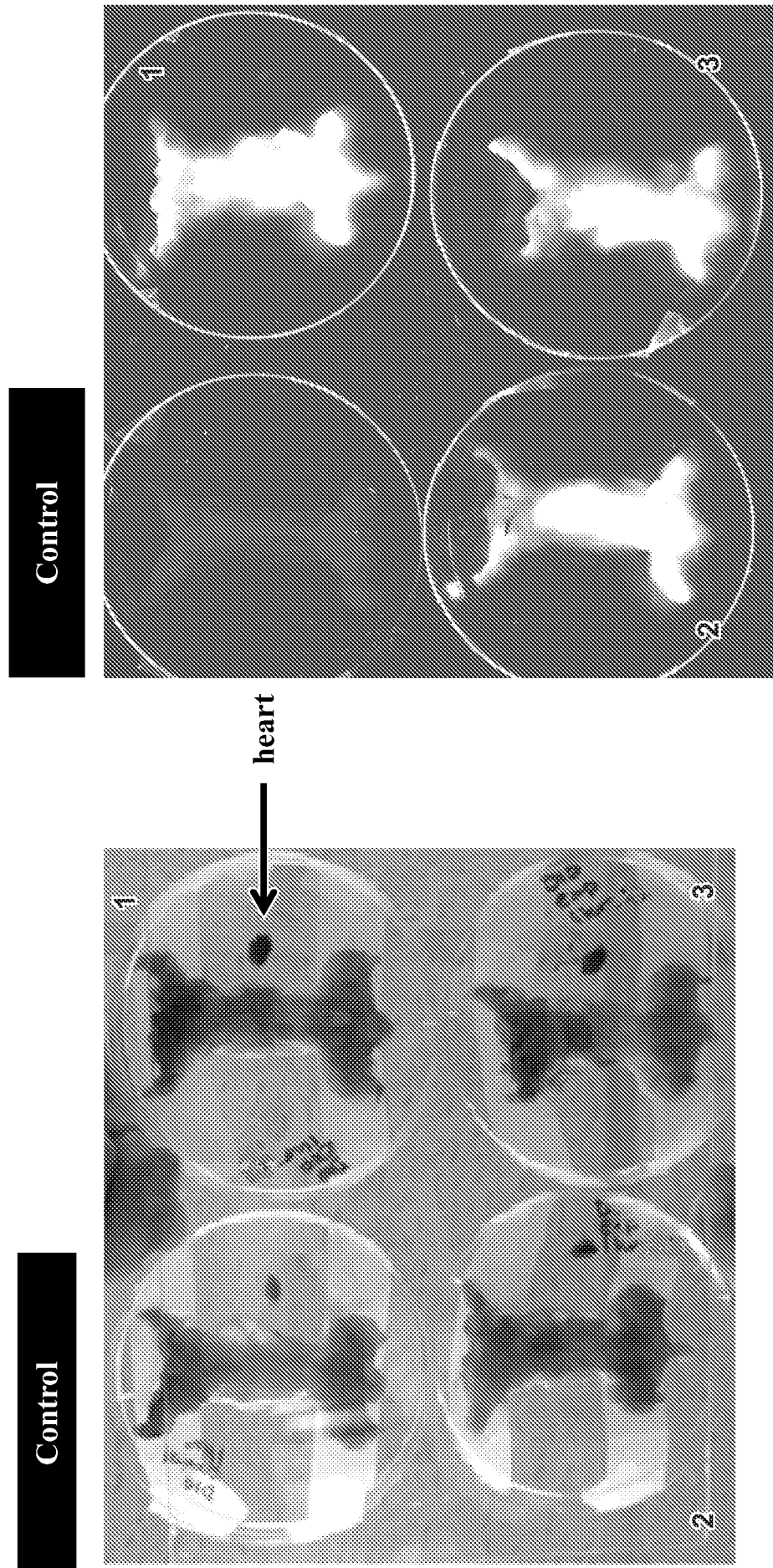


FIG. 10A

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FIG. 10B



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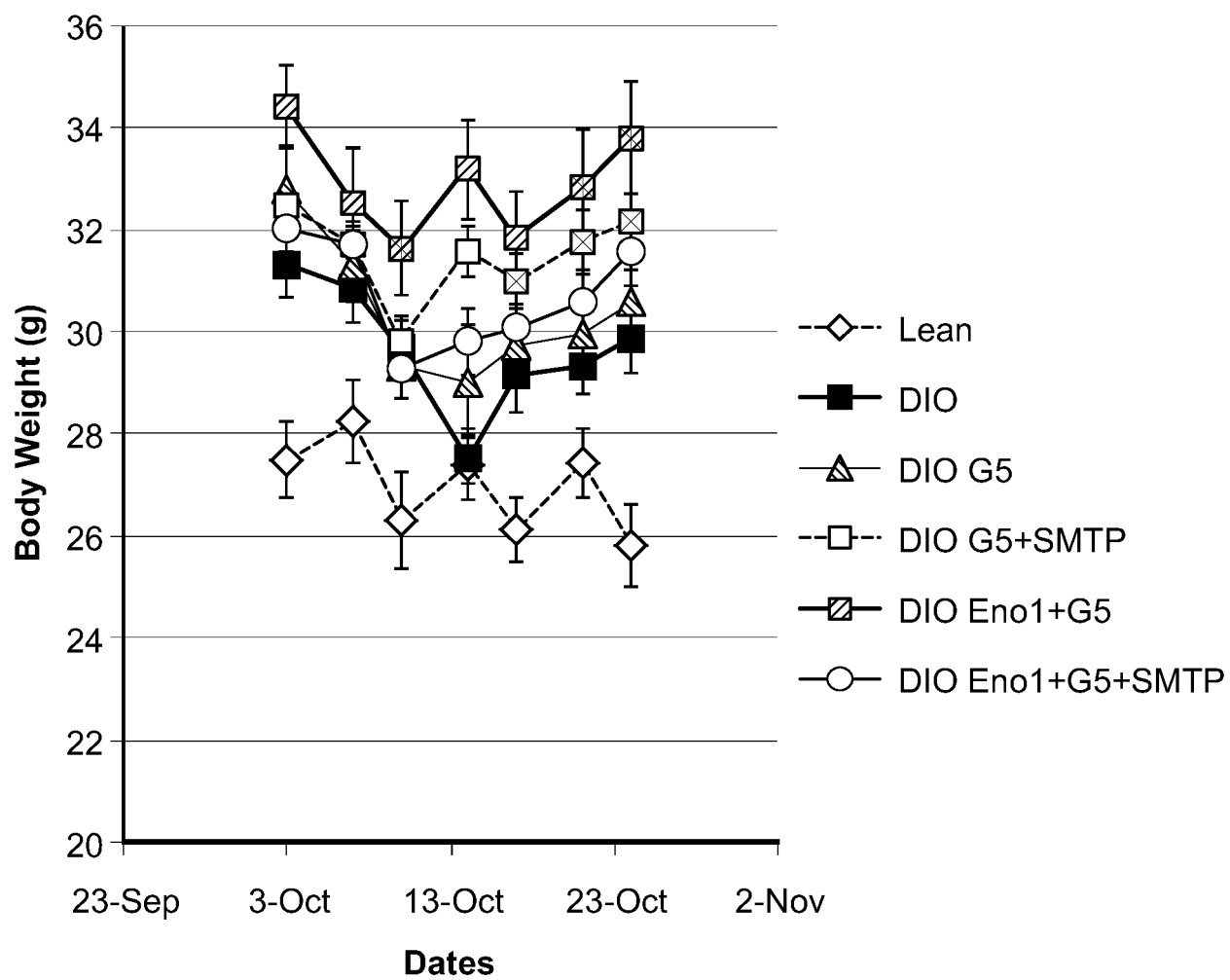


FIG. 11

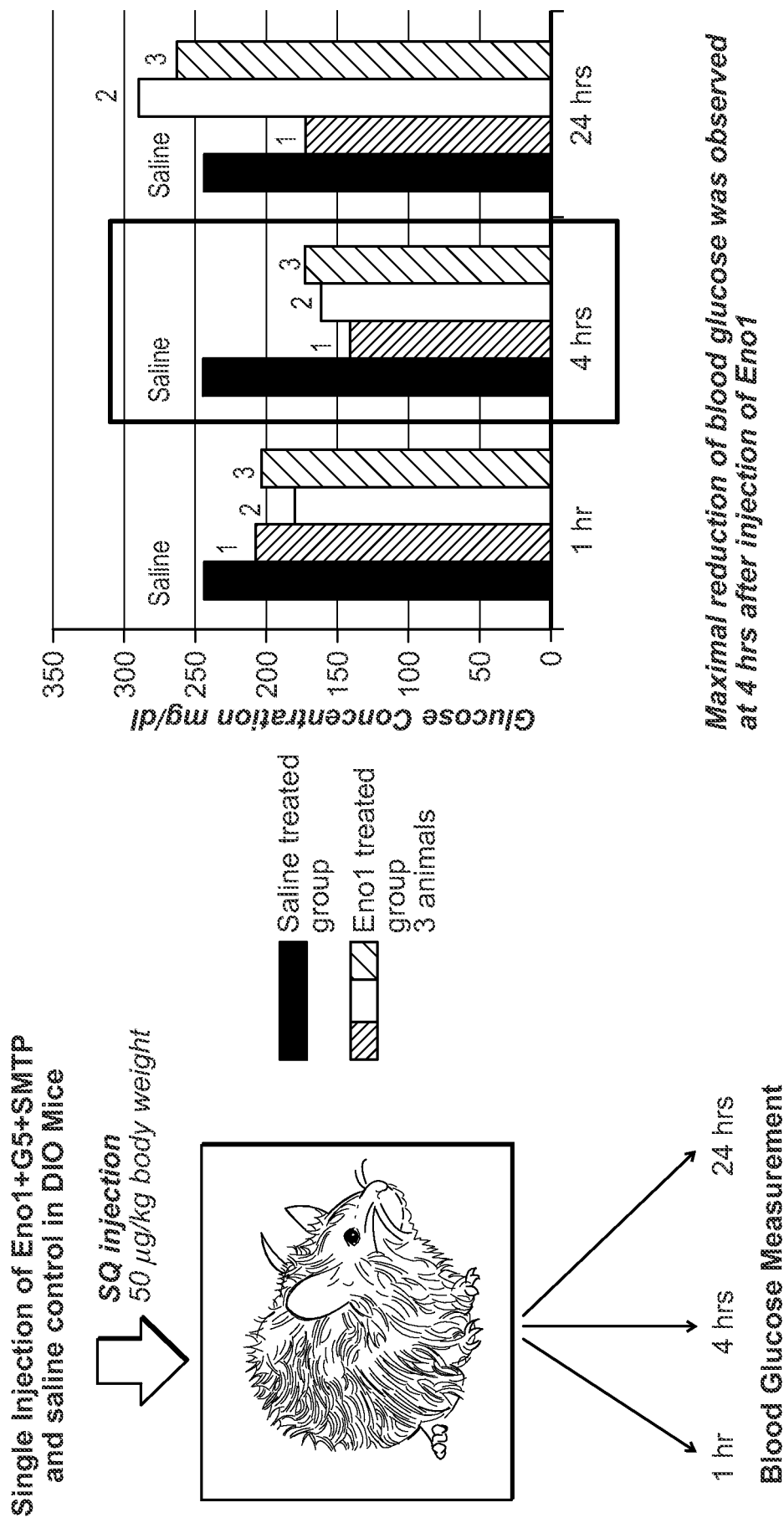


FIG. 12

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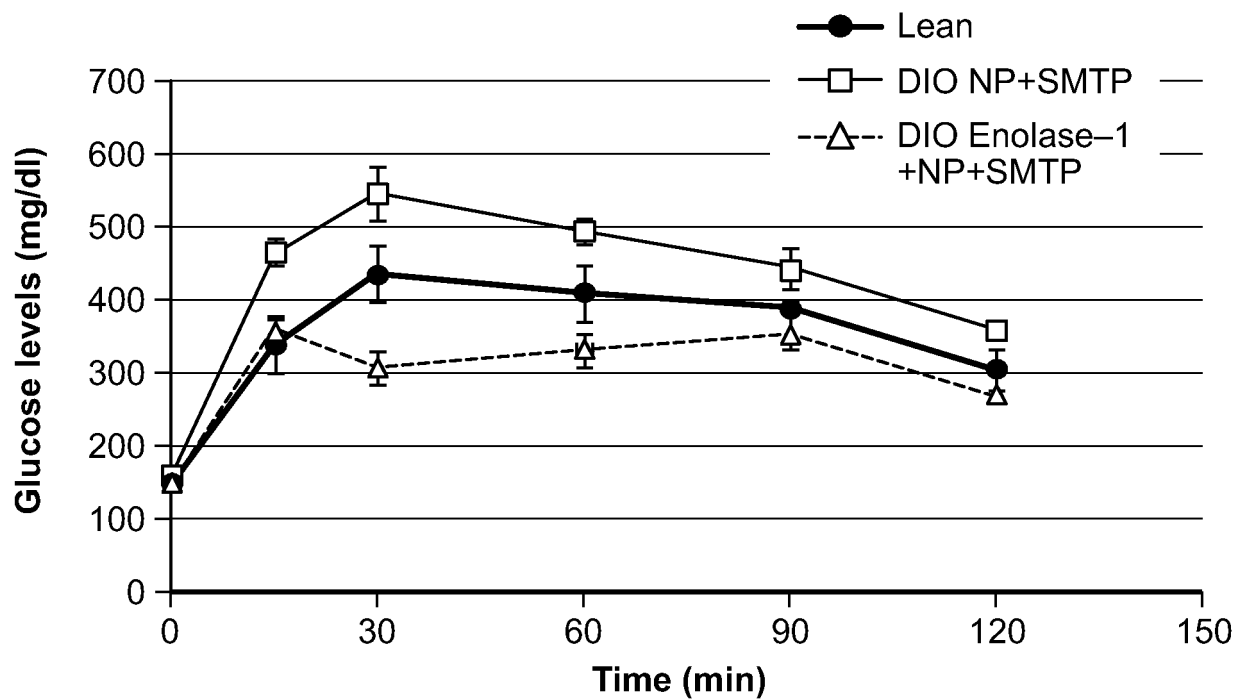


FIG. 13A

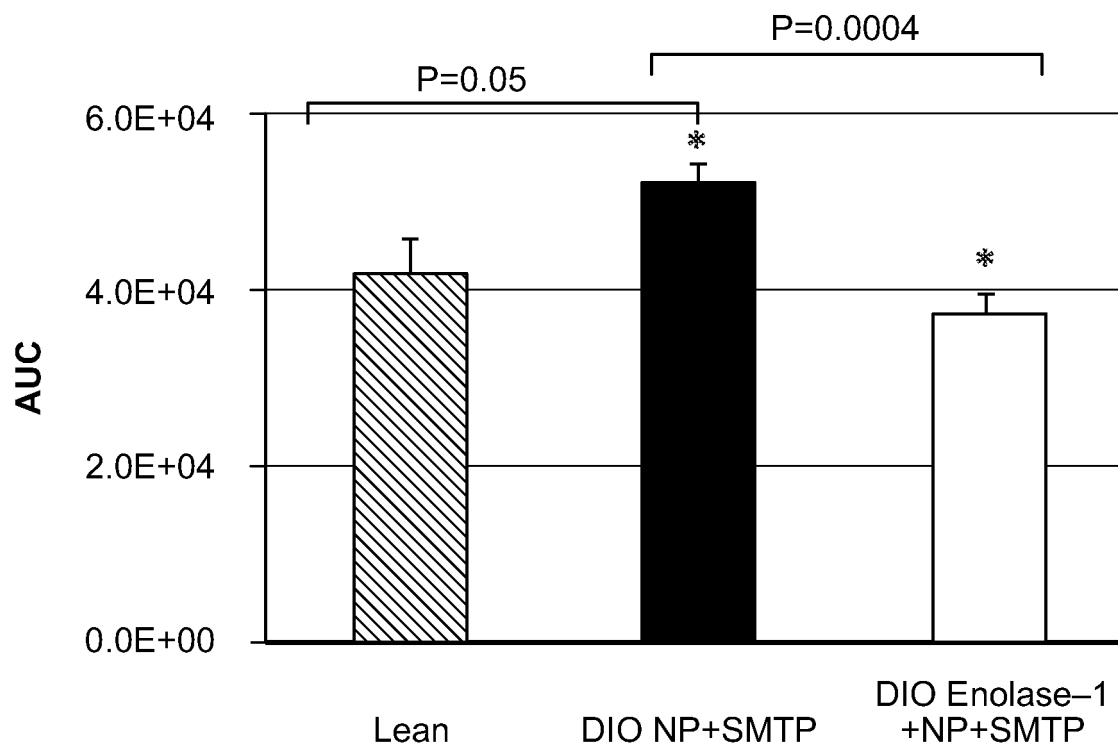


FIG. 13B

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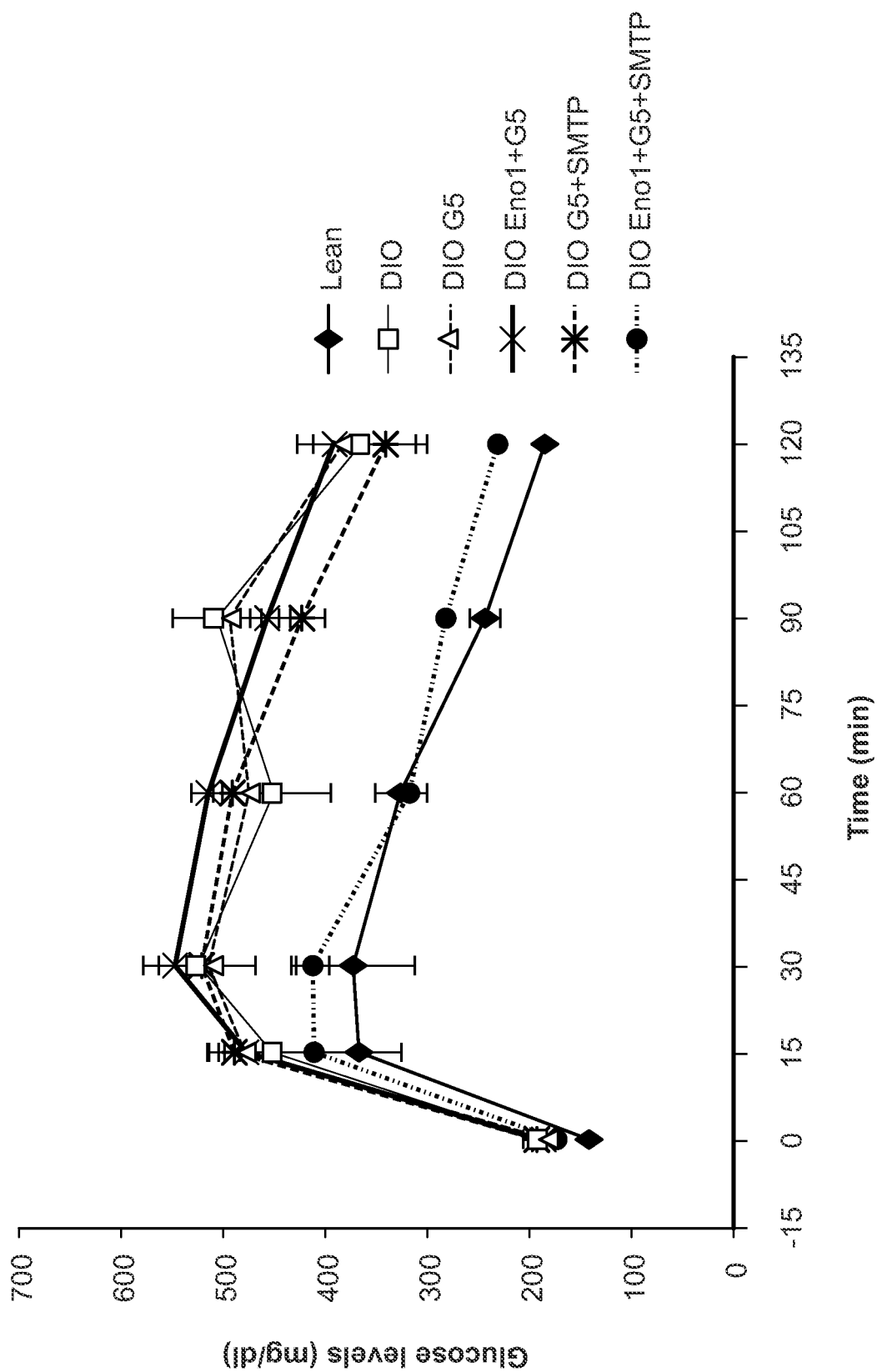


FIG. 13C

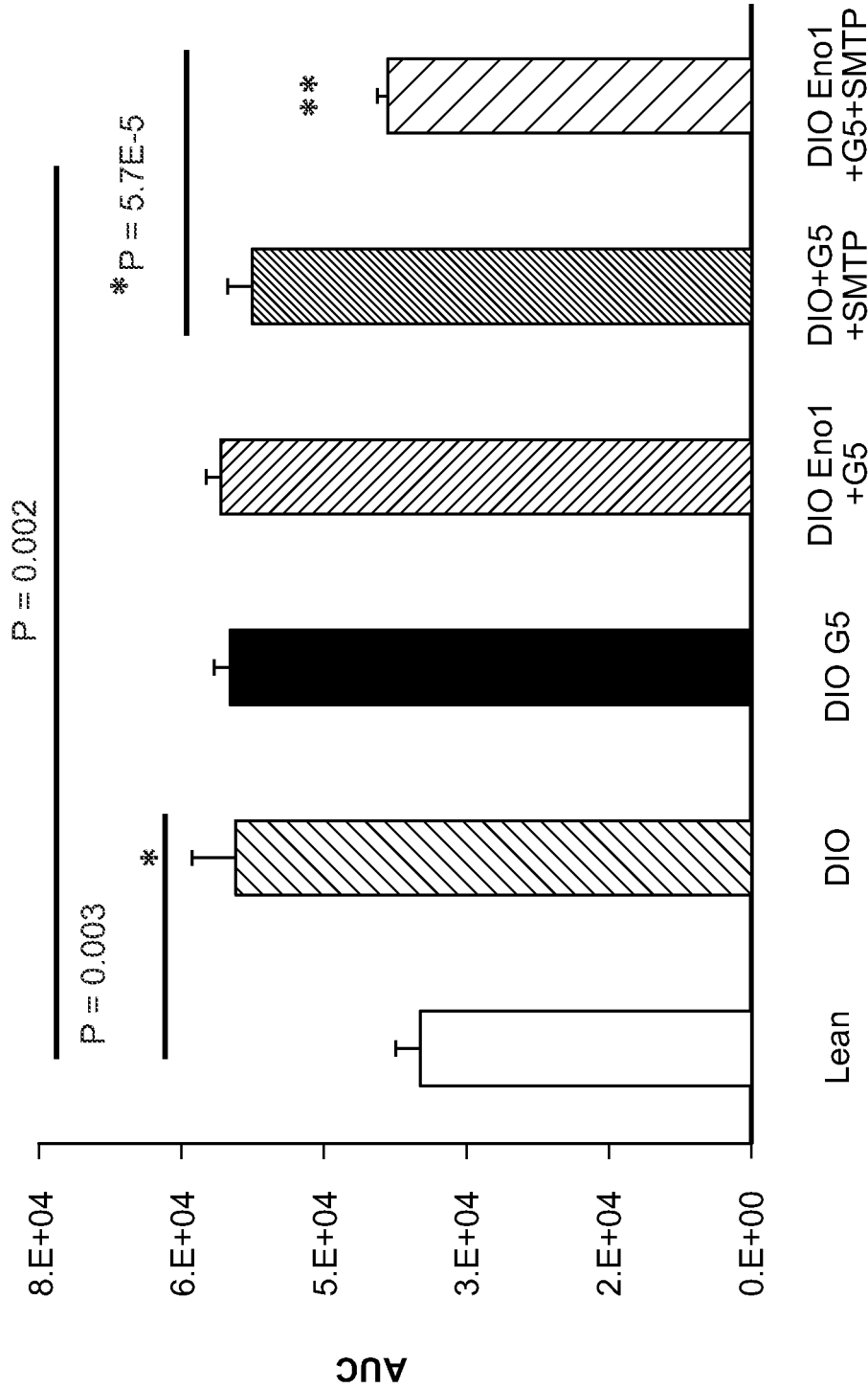


FIG. 13D

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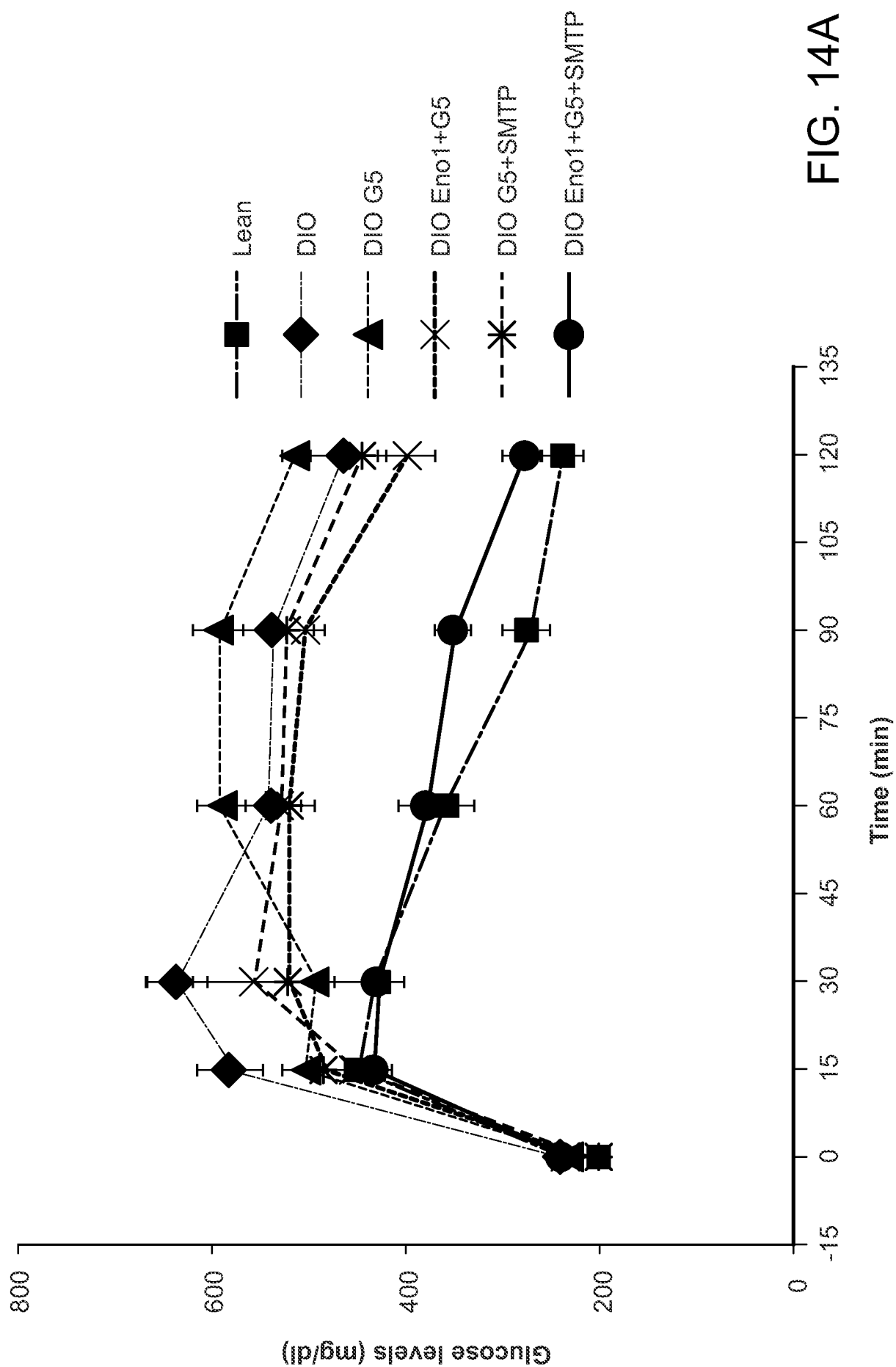


FIG. 14A

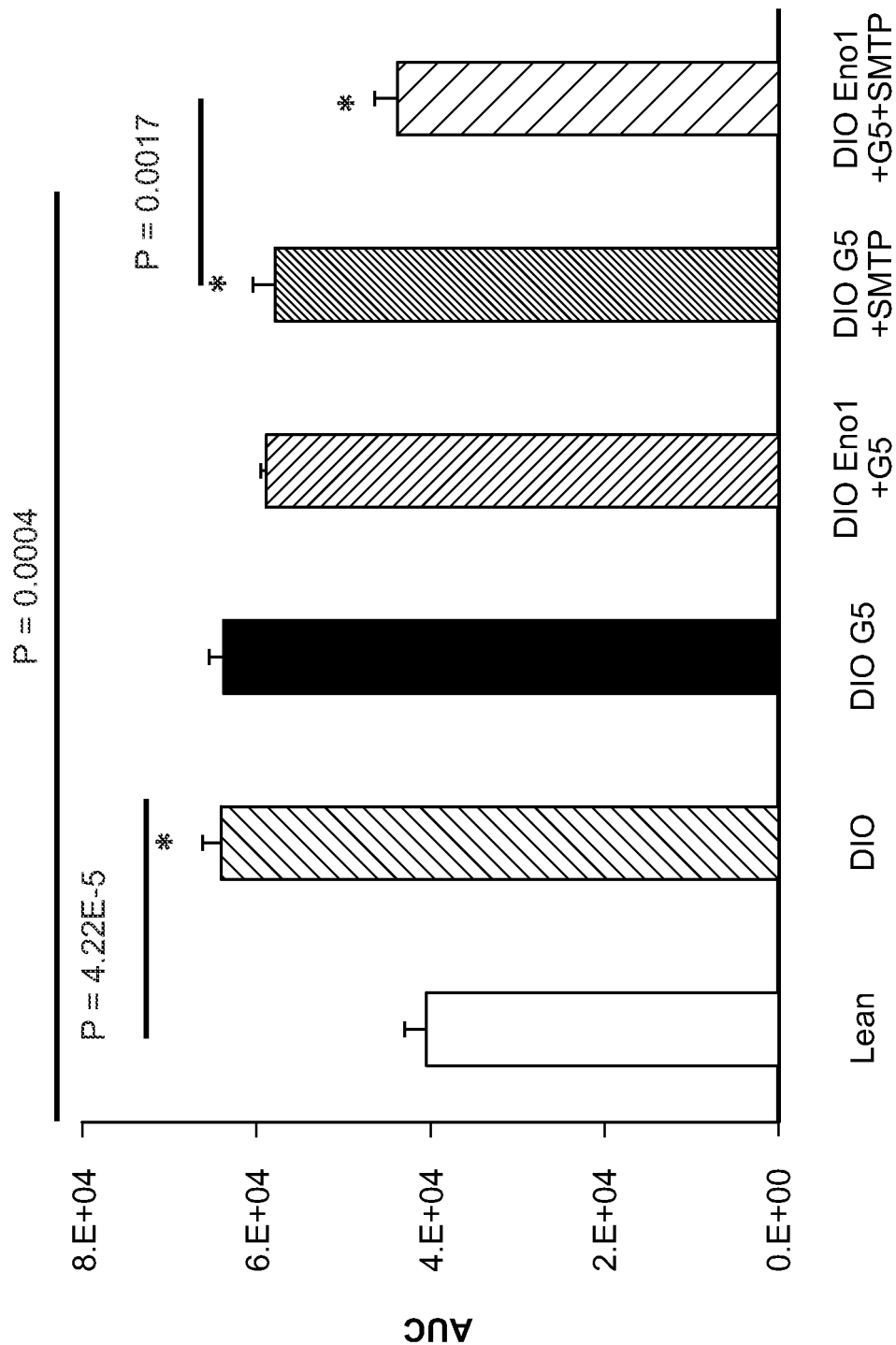


FIG. 14B

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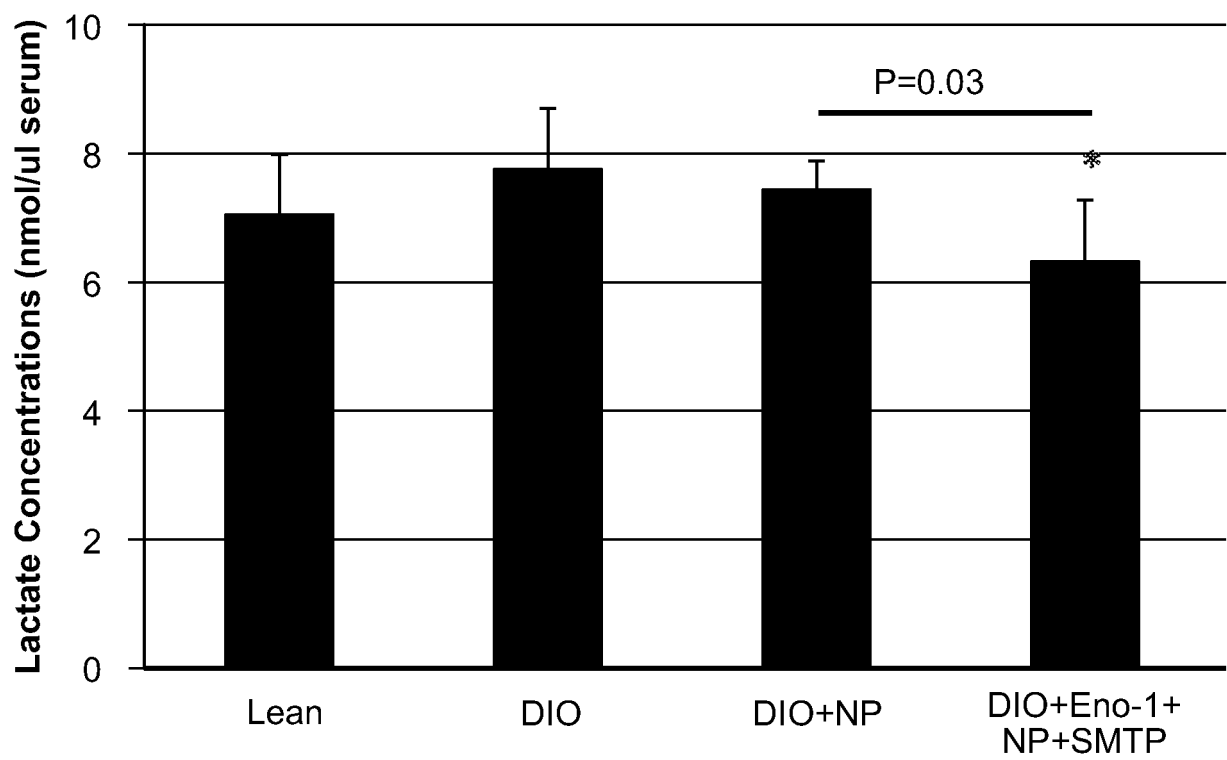


FIG. 15

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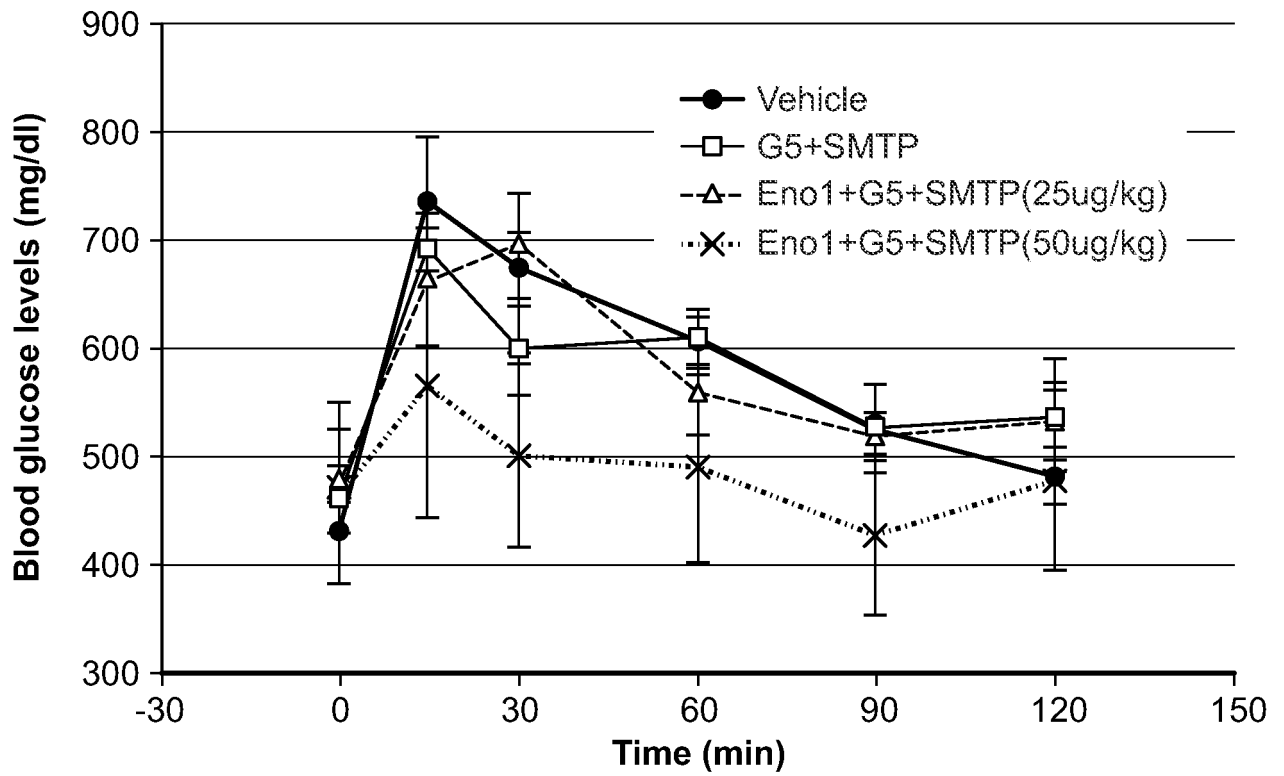


FIG. 16A

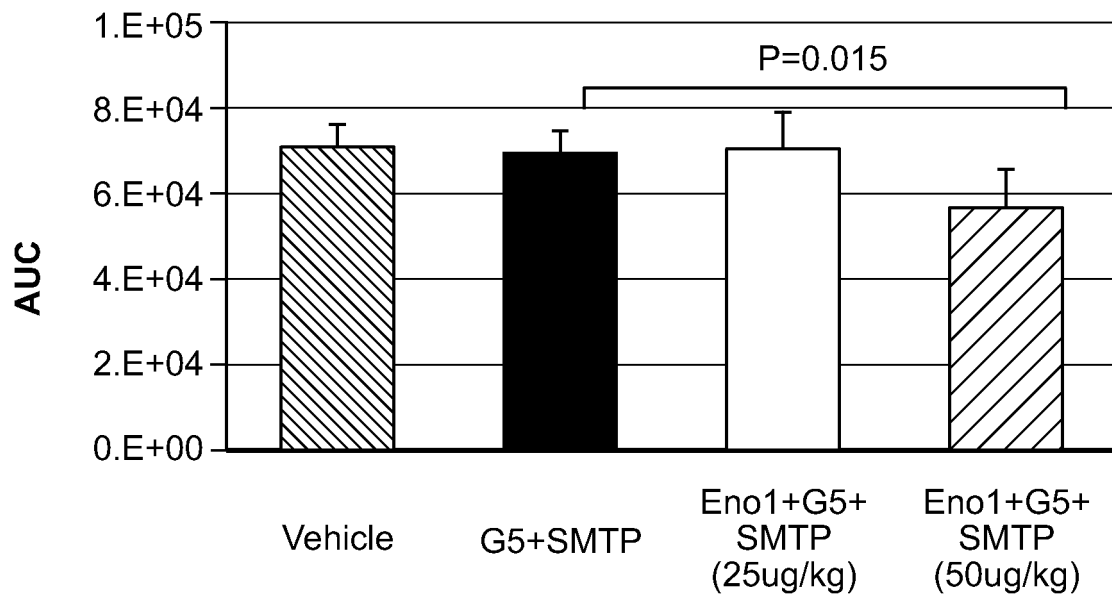


FIG. 16B

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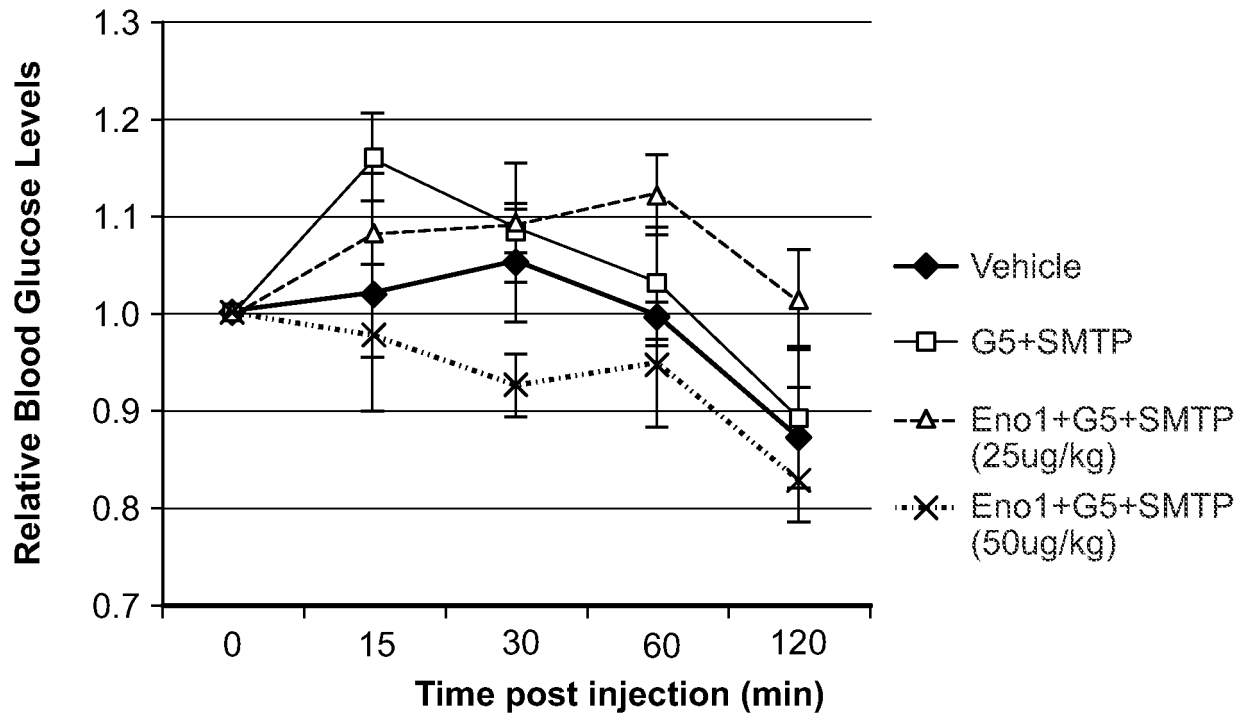


FIG. 17A

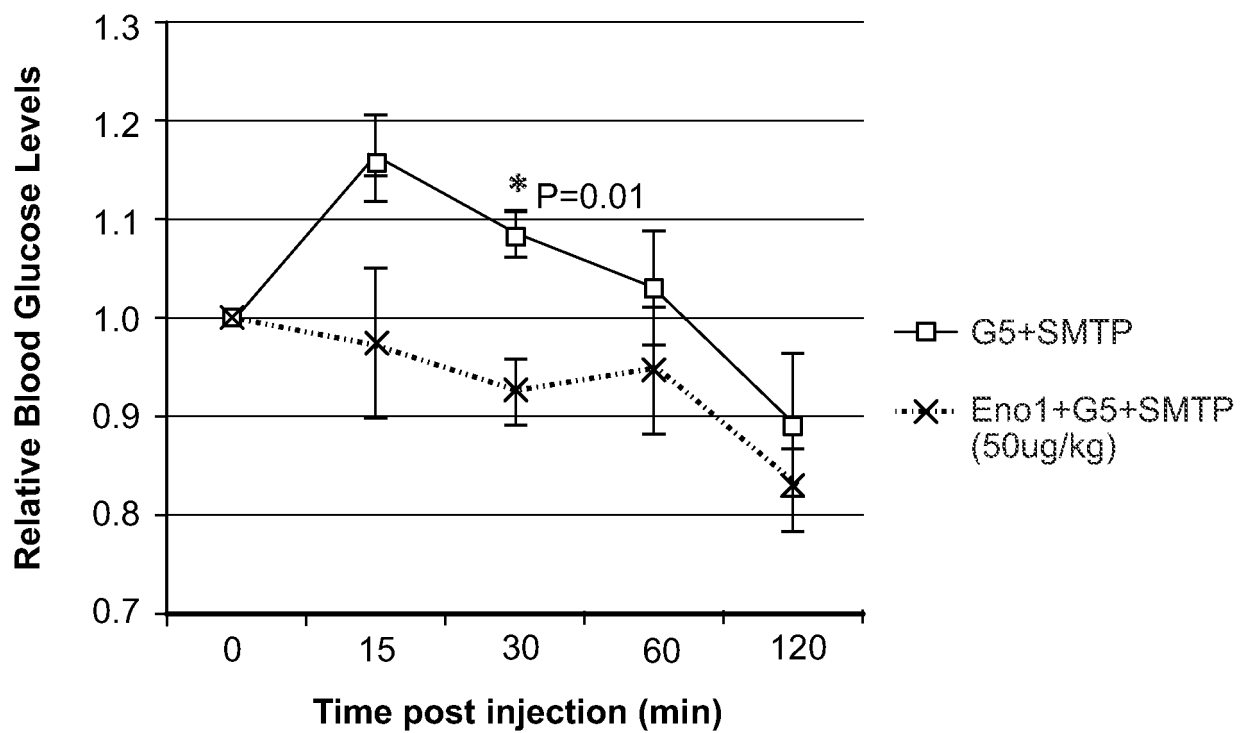


FIG. 17B

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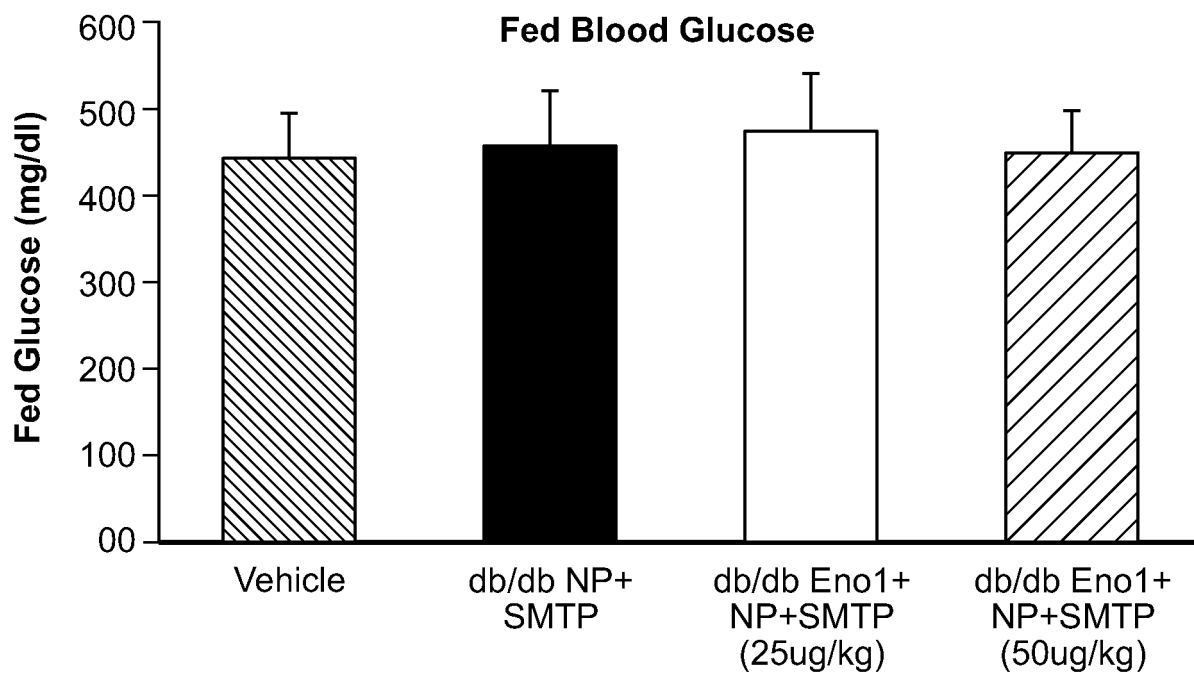


FIG. 18

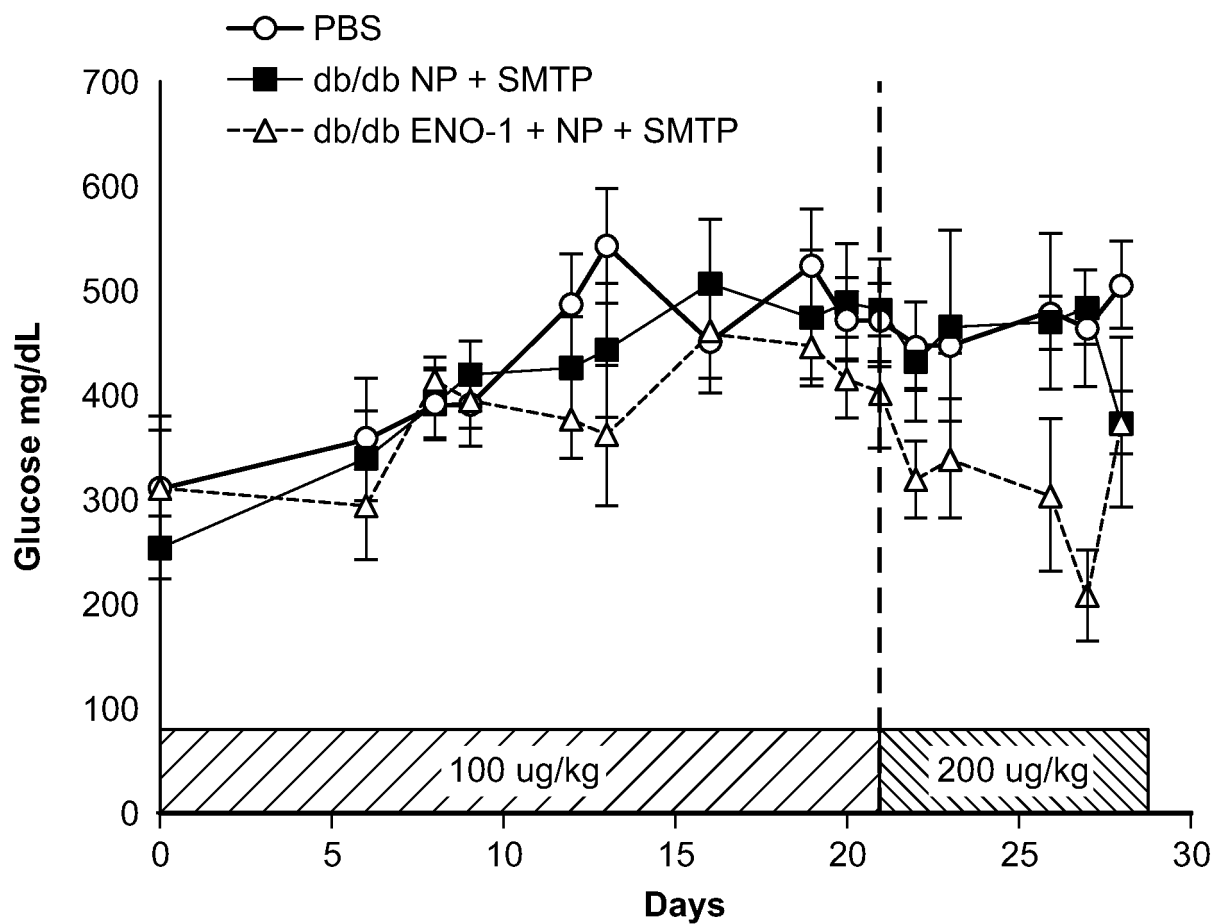


FIG. 19

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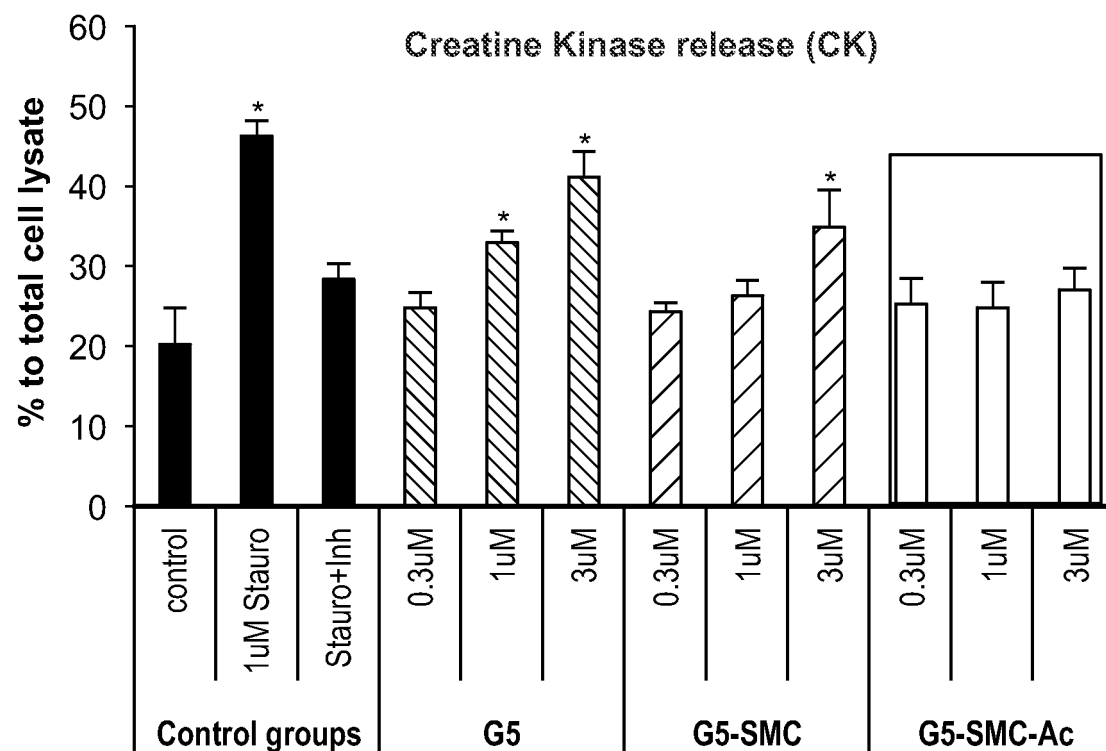
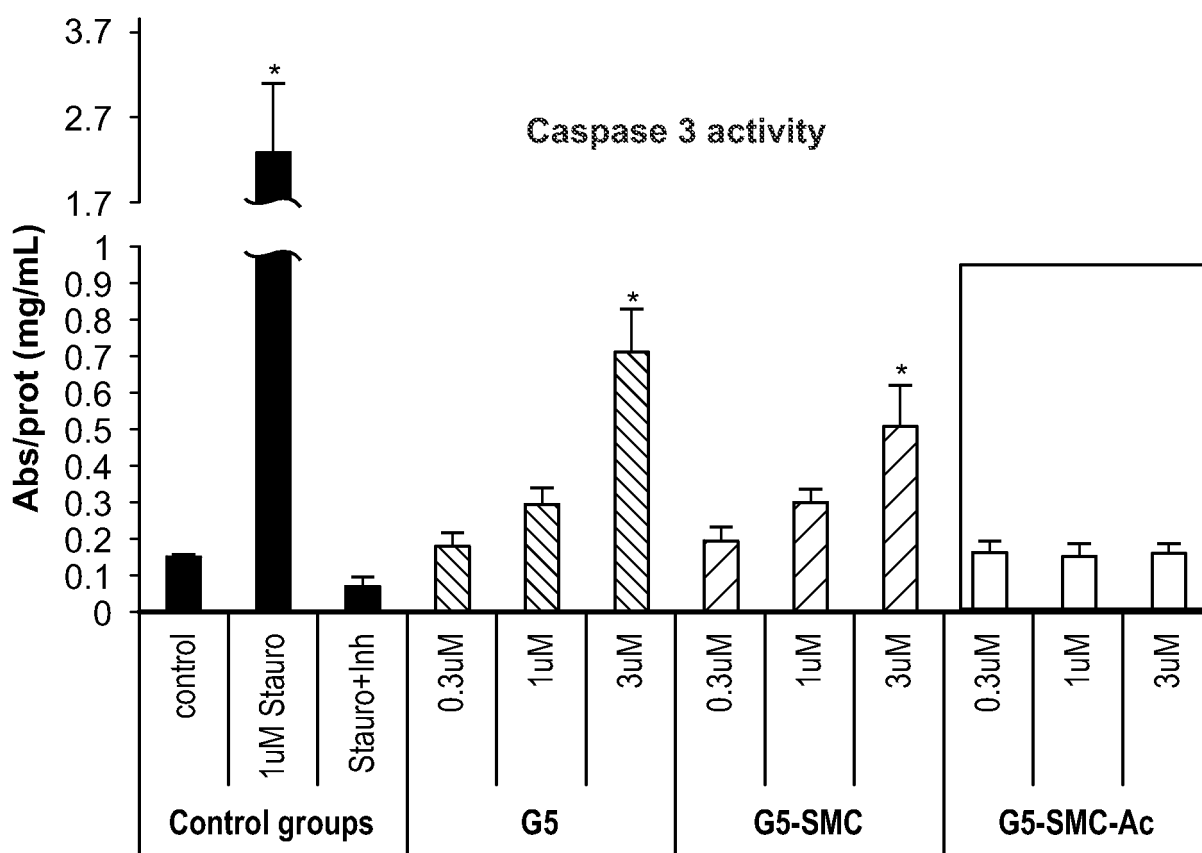
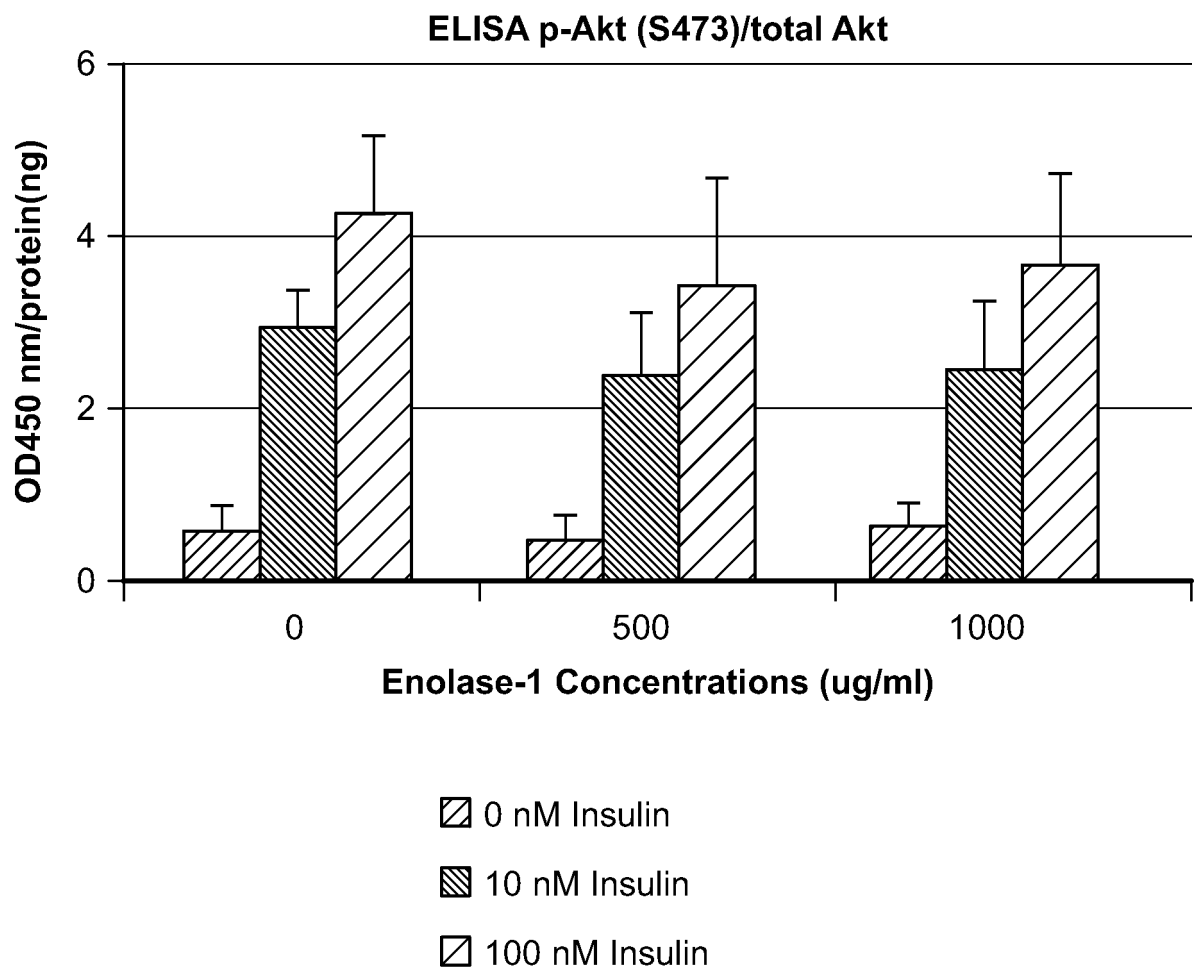


FIG. 20

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**FIG. 21**

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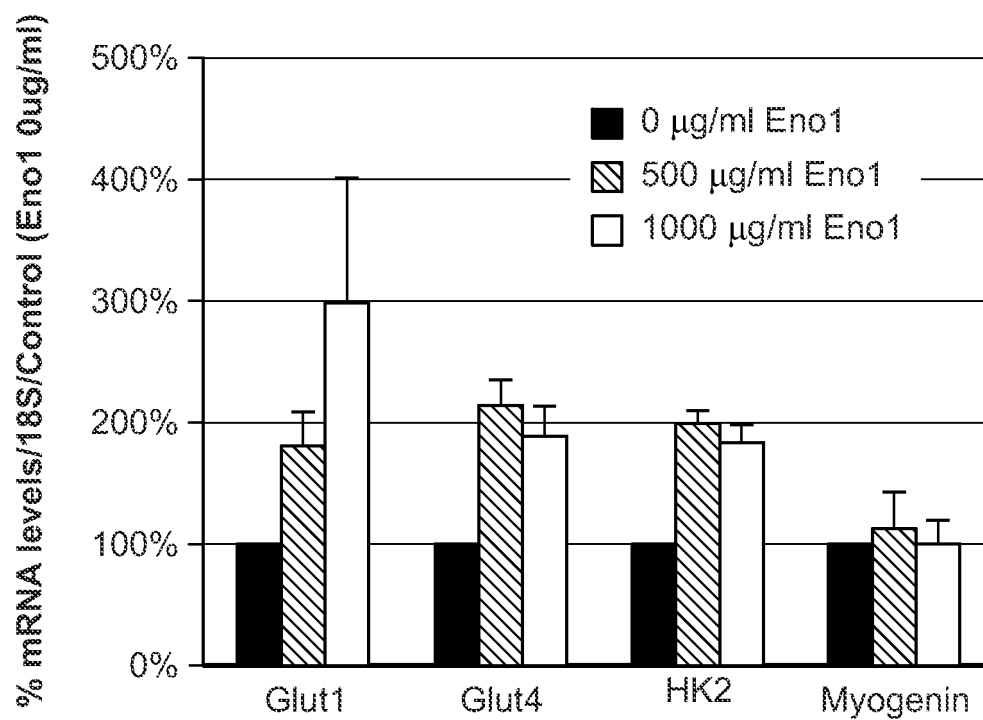


FIG. 22A

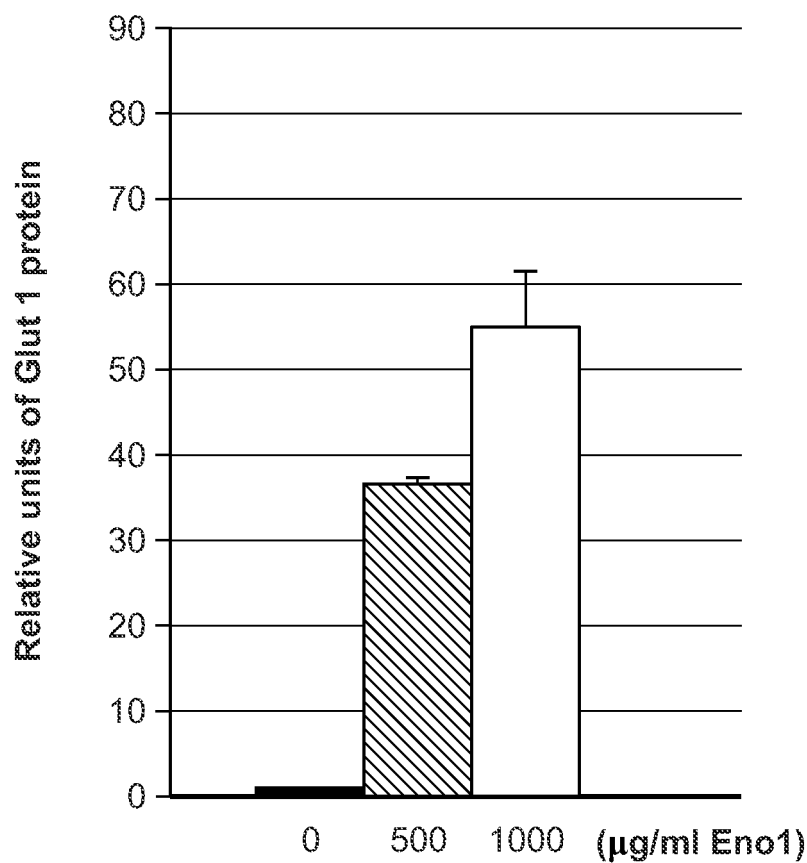


FIG. 22B

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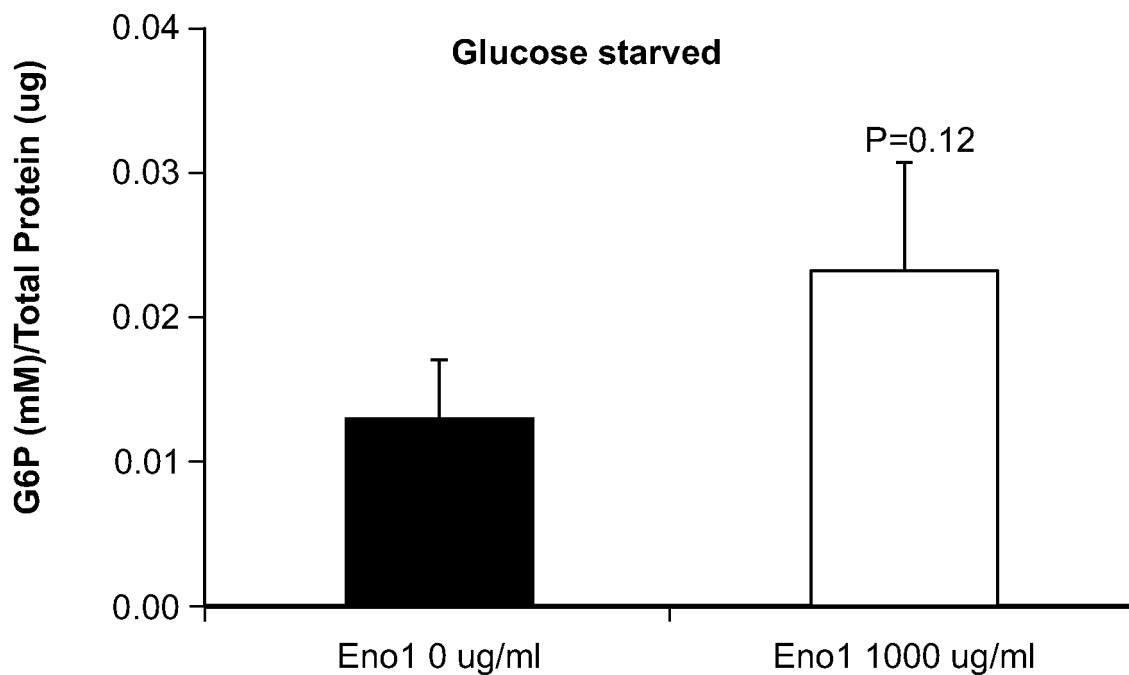


FIG. 23

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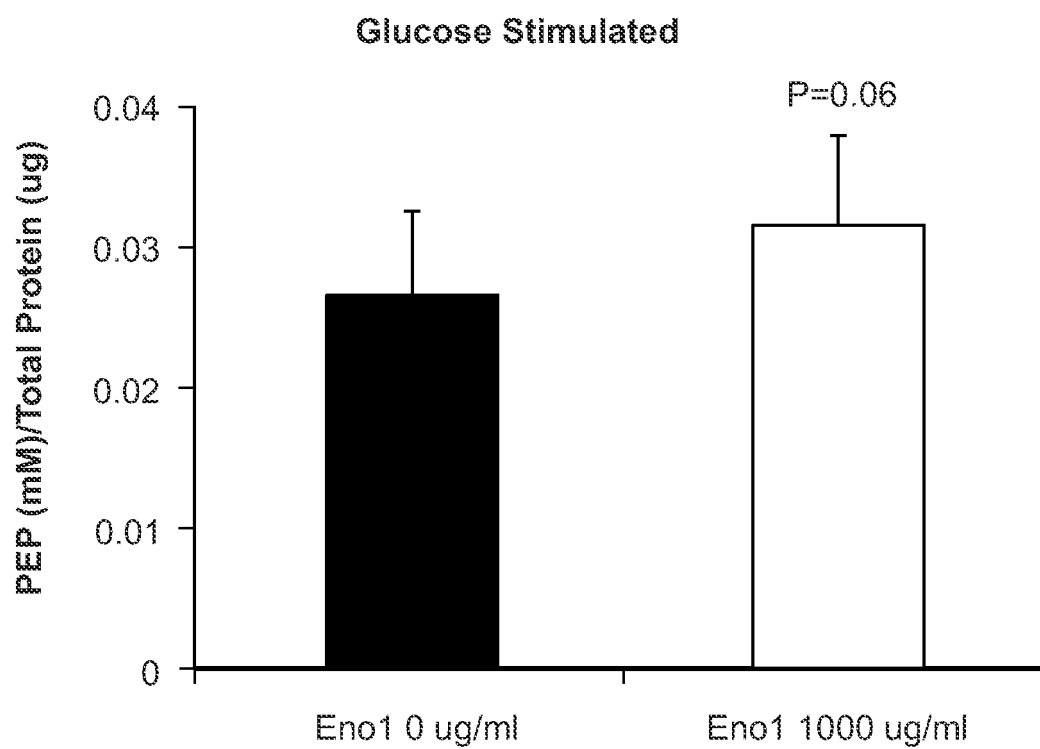


FIG. 24

FIG. 25

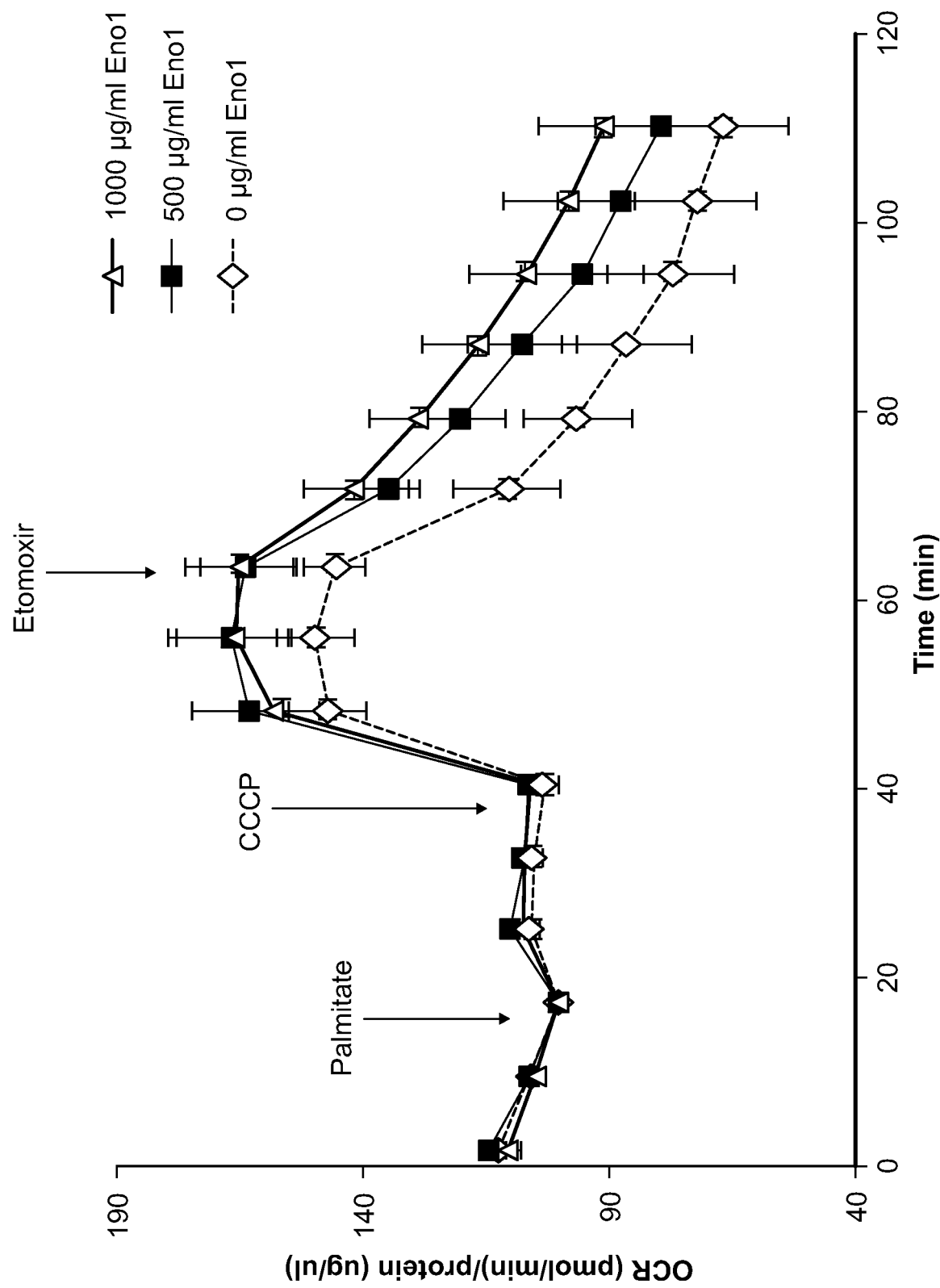
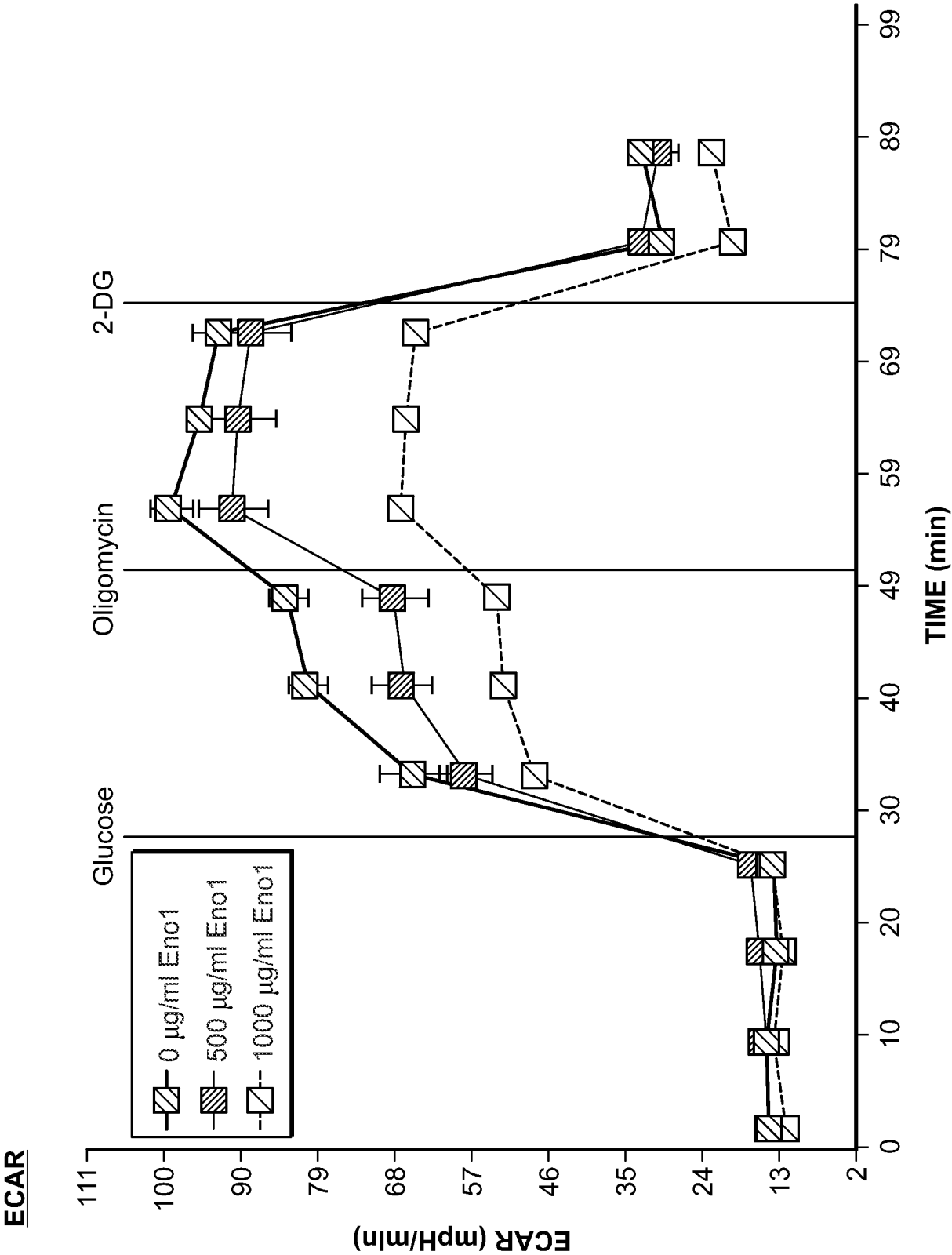


FIG. 26



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FIG. 27A

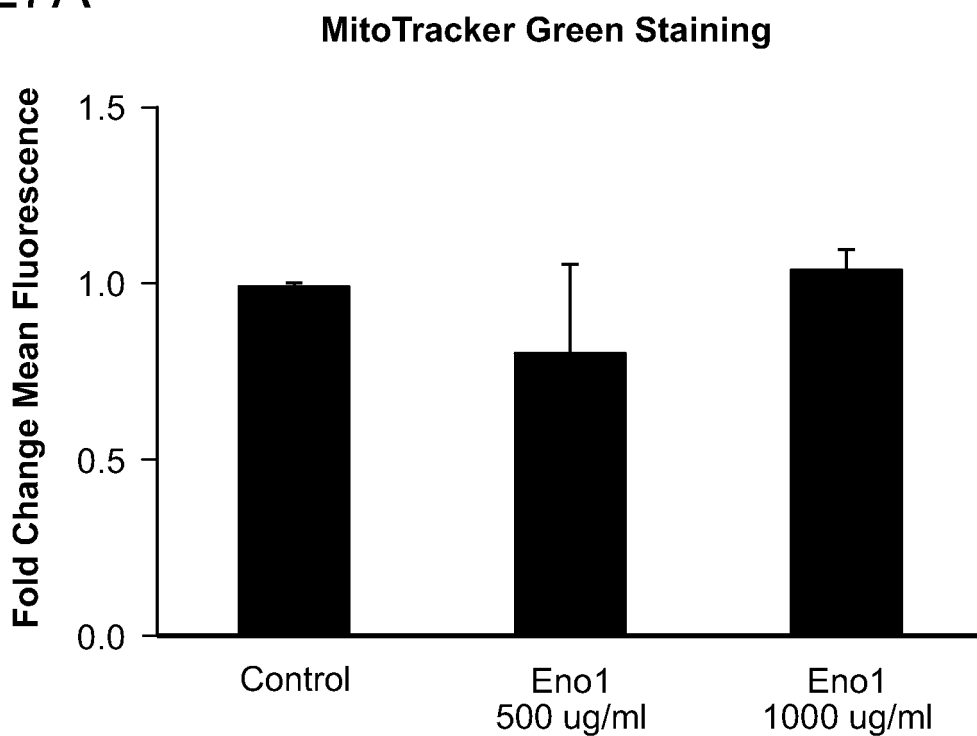
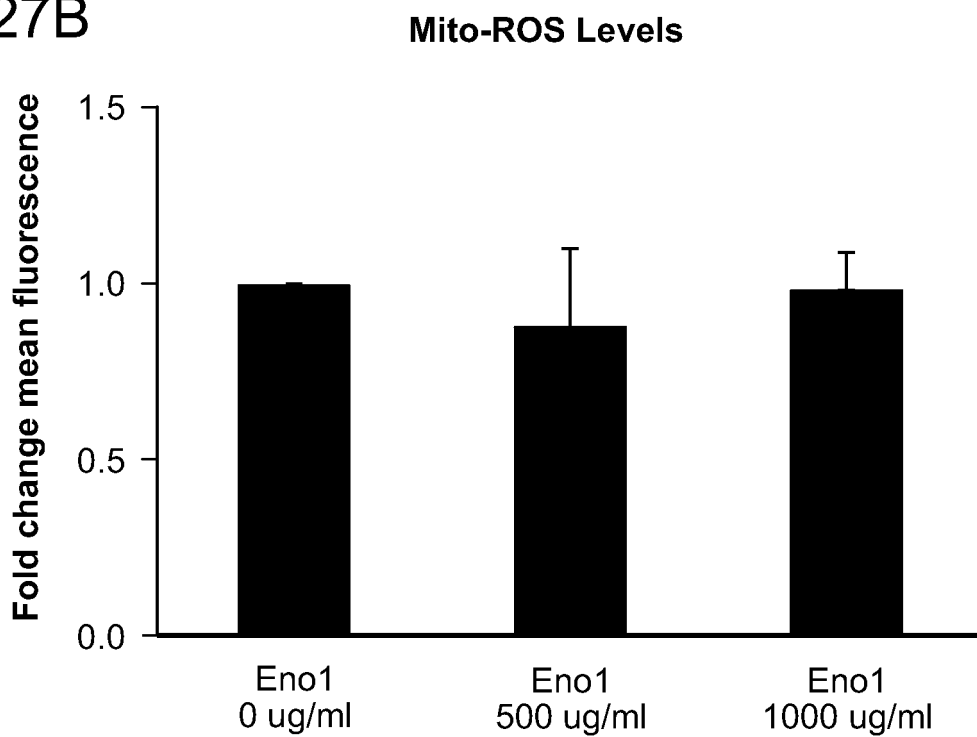


FIG. 27B



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FIG. 28A

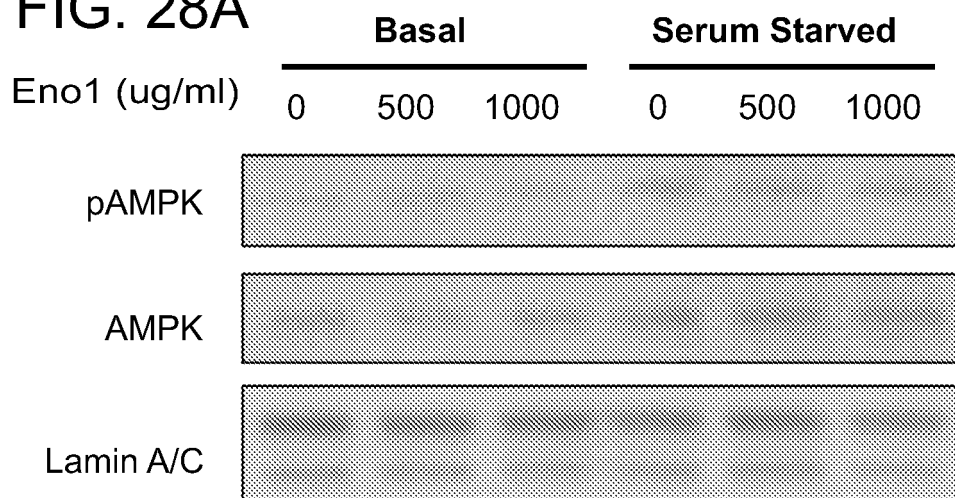
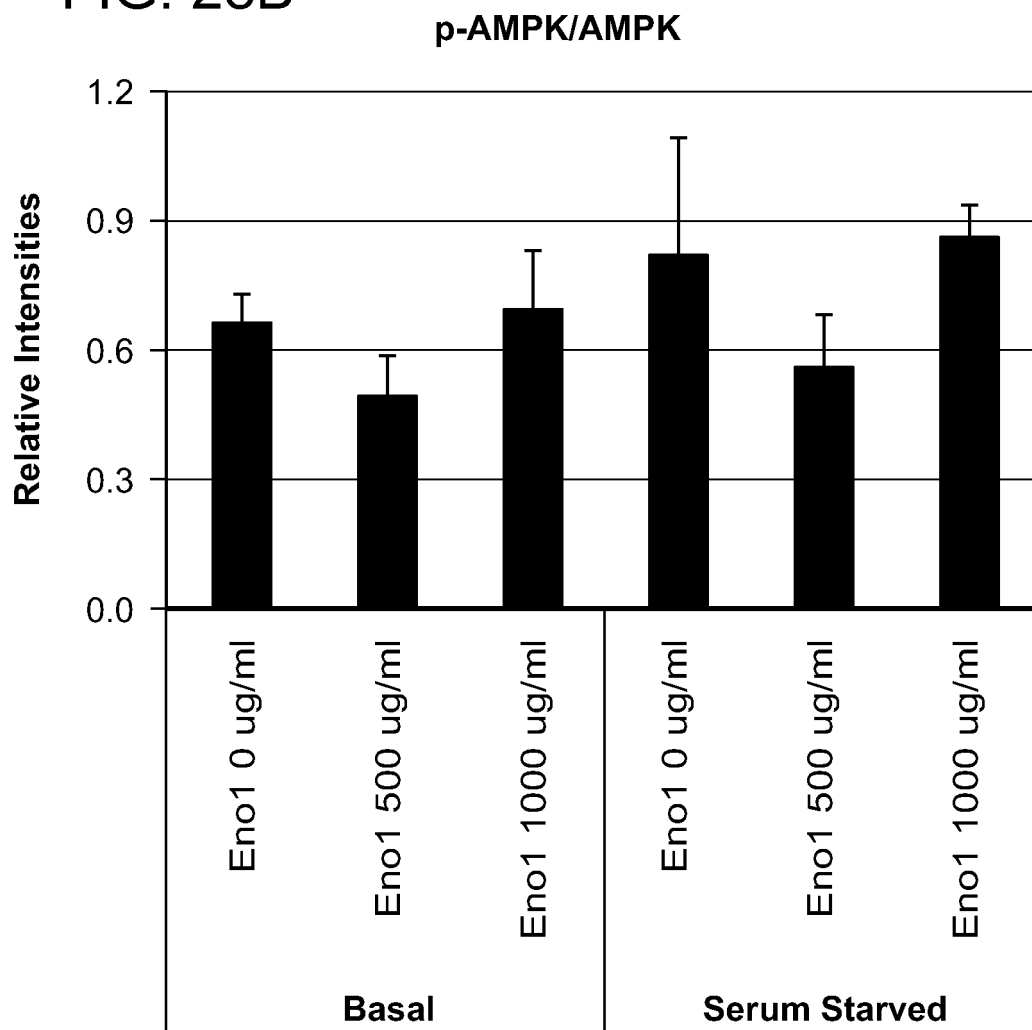


FIG. 28B



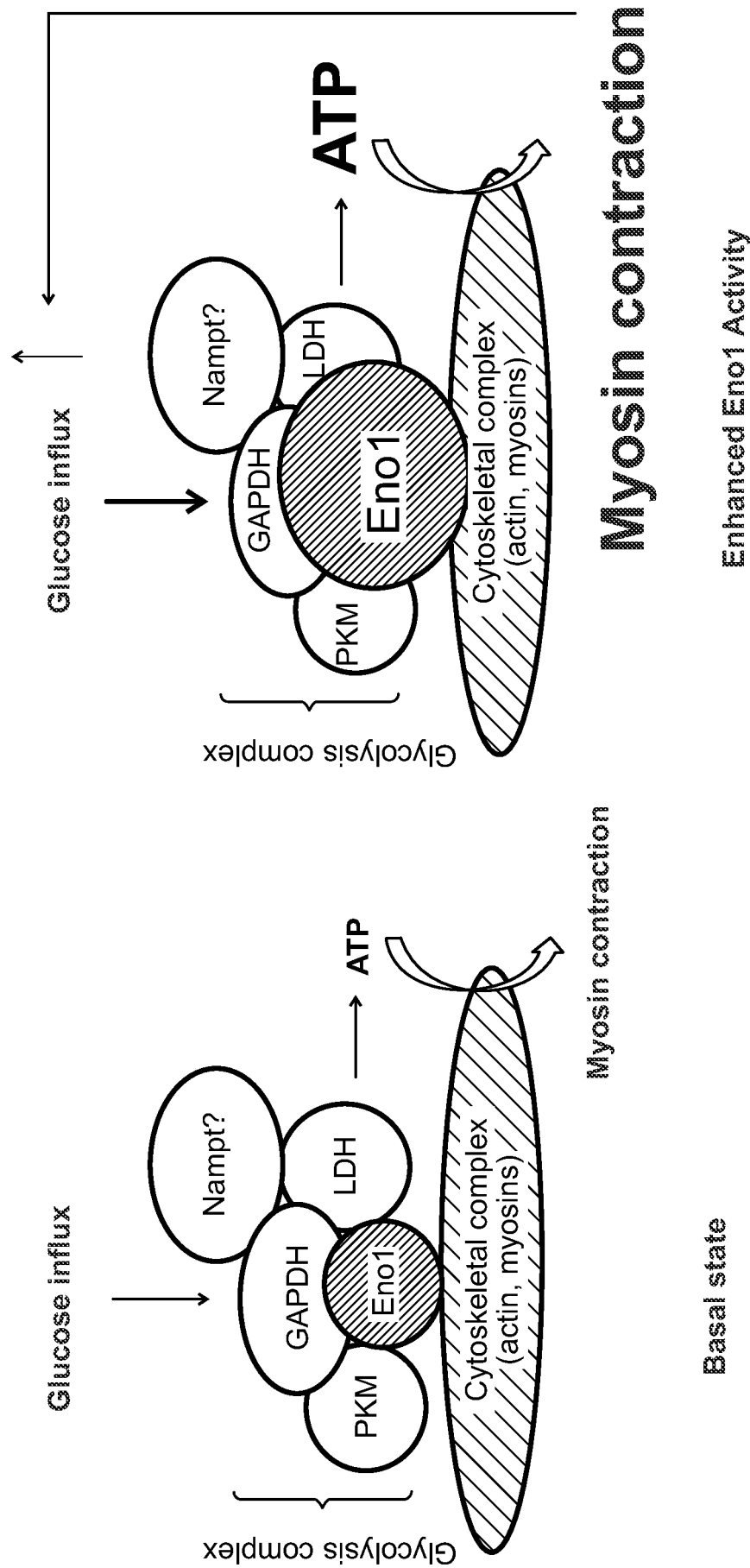
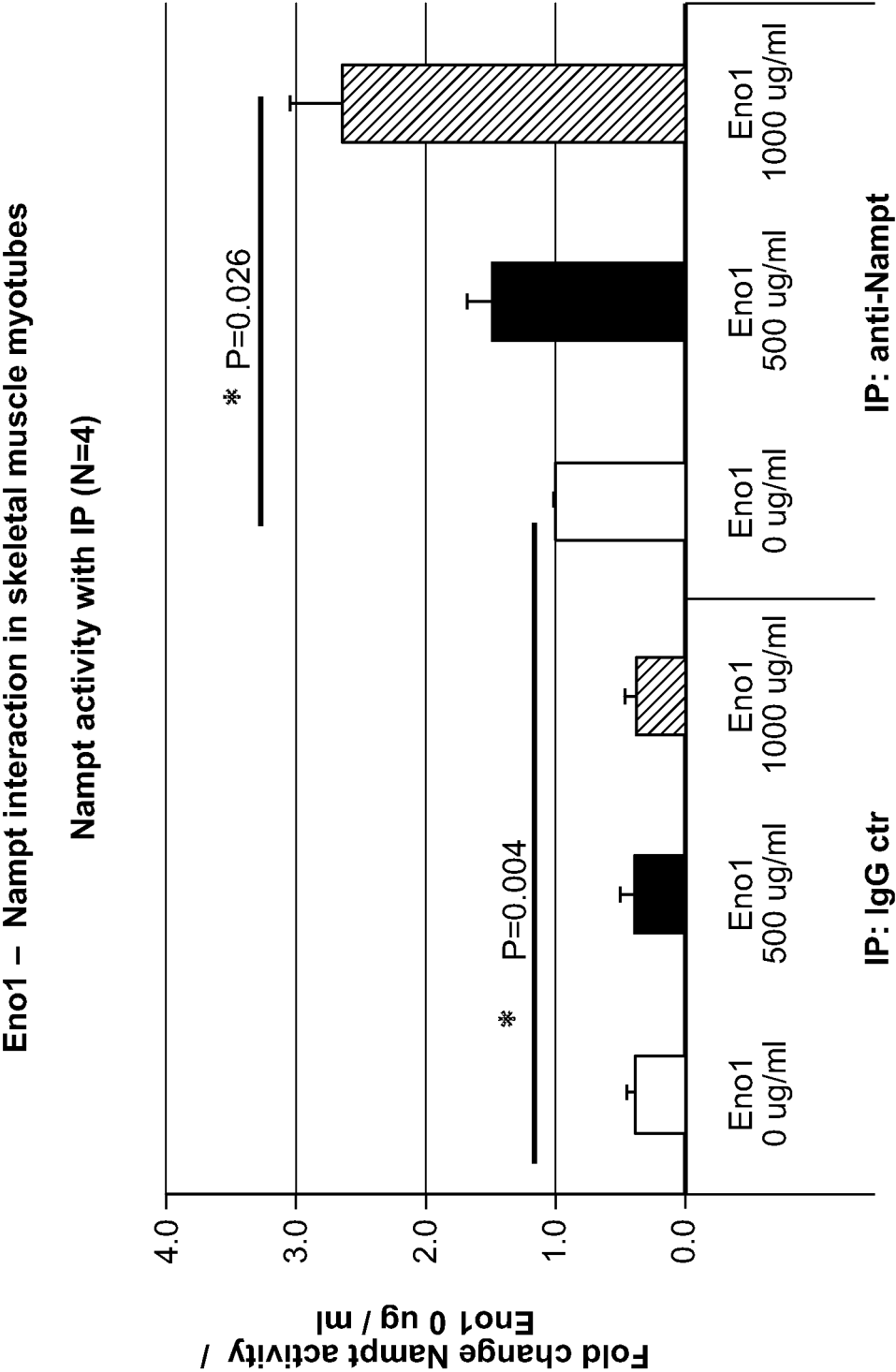


FIG. 29

FIG. 30



Recombinant extracellular NAMPT induced 2-DG uptake

Acute eNAMPT treatments (n=4)

P=0.06

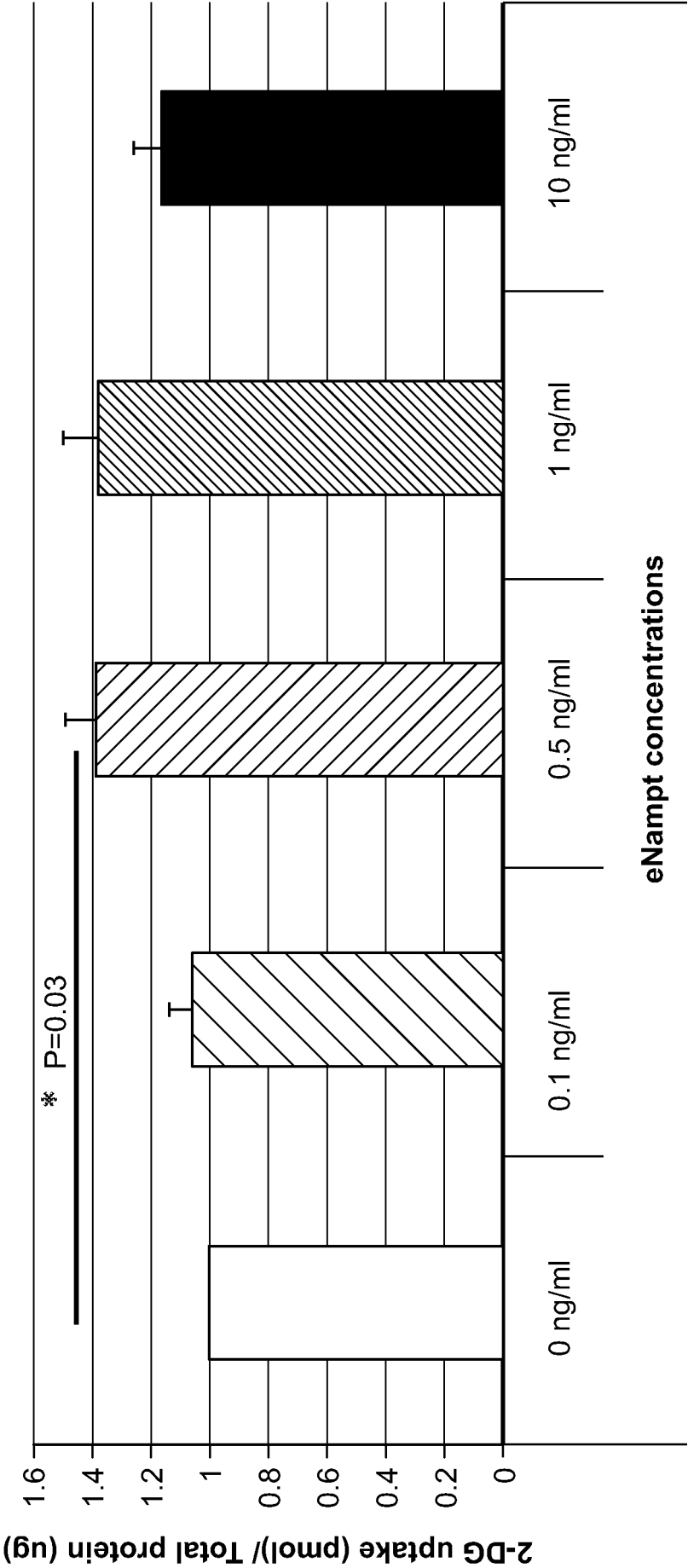


FIG. 31

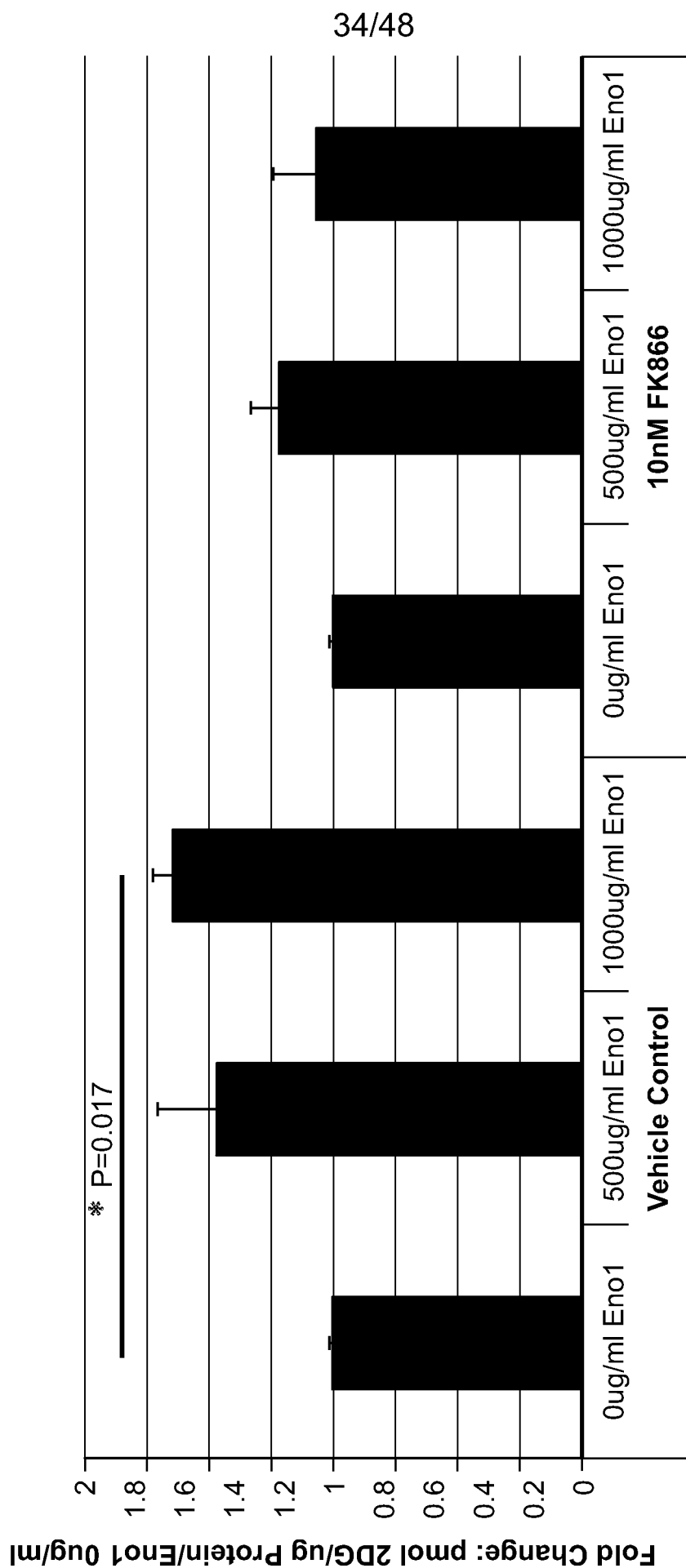


FIG. 32

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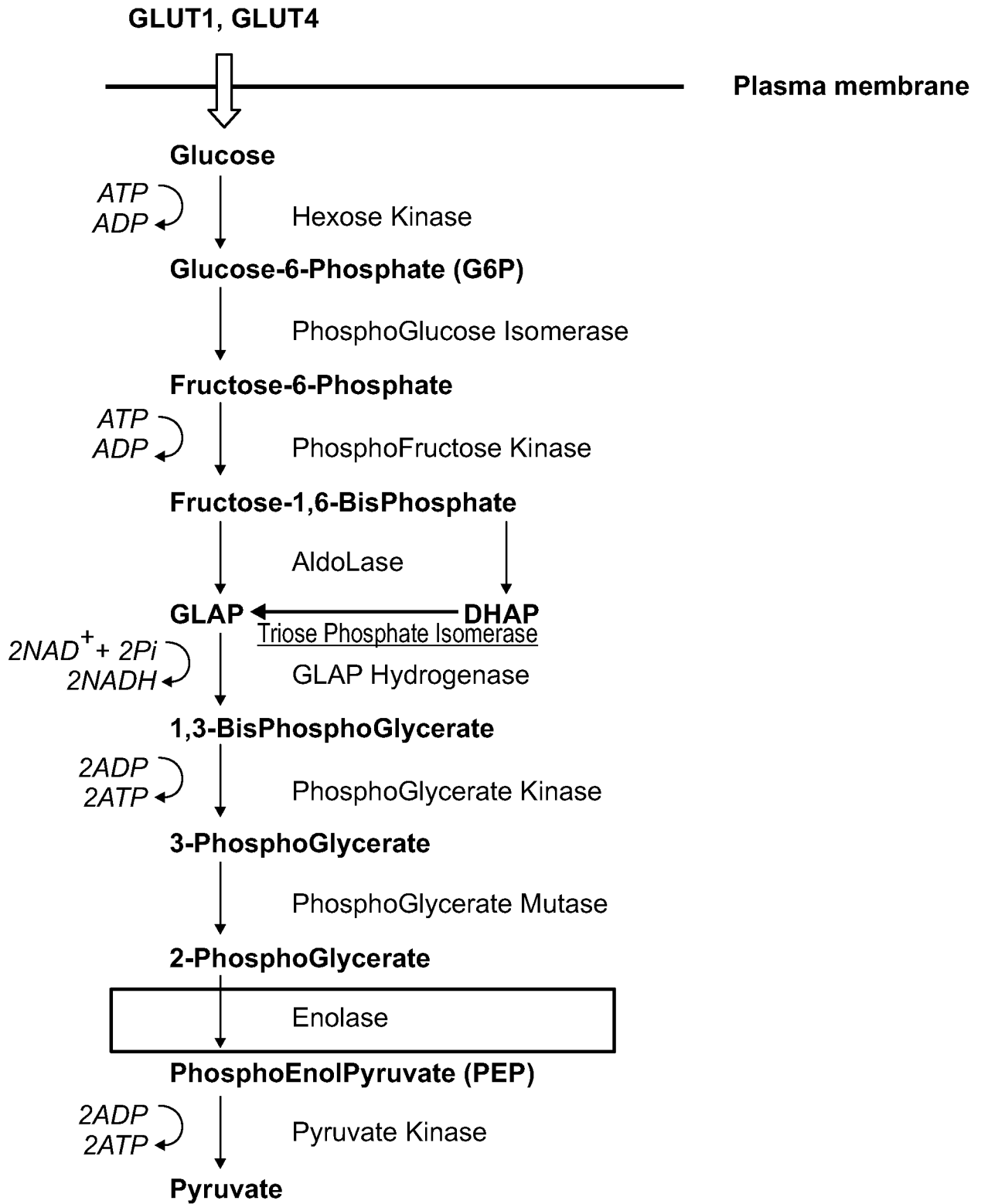


FIG. 33

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FIG. 34A

LOCUS NM_001428 2204 bp mRNA linear PRI 10-JAN-2014

DEFINITION Homo sapiens enolase 1, (alpha) (ENO1), transcript variant 1, mRNA.

ACCESSION NM_001428 NM_005945

VERSION NM_001428.3 GI:319996653

```
1 msilkihare ifdsrgnptv evdlftskgl fraavpsgas tgiyealelr dndktrymgk
61 gvskavehin ktiapalvsk klnvtegeki dklmiemdgt enkskfgana ilgvslavck
121 agavekgvpl yrhiadlagn sevilpvpaf nvinggshag nklaqgefmi lpvgaanfre
181 amrigaevyh nlknvikeky gkdatnvgde ggfapnilen keglellkta igkagytdkv
241 vigmdvaase ffrsgkydld fkspddpsry ispdqladly ksfikdypvv siedpfdqdd
301 wgawqkftas agiqvvgddl tvtnpkriak avnekscncl llkvnqigsv teslqackla
361 gangwgvmvs hrsgetedtf iadlvvglct gqiktgapcr serlakynql lrieeelgsk
421 akfagrnrfrn plak
```

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FIG. 34B

LOCUS NM_001428 2204 bp mRNA linear PRI 10-JAN-2014

DEFINITION Homo sapiens enolase 1, (alpha) (ENO1), transcript variant 1, mRNA.

ACCESSION NM_001428 NM_005945

VERSION NM_001428.3 GI:319996653

```
1  gtggggccccc agagcgacgc tgagtgcgtg cgggactcgg agtacgtgac ggagccccga
61  gctctcatgc ccgccacgcc gccccggggc atcccccgga gccccggctc cgcacacccc
121 agttcggctc accggtccta tctggggcca gagtttcgcc cgcaccacta cagggccgct
181 ggggagtcgg ggccccccag atctgcccgc ctcaagtccg cgggacgtca cccccctttc
241 cacgctactg cagccgtcgc agtcccaccc ctttcgggga ggtgagggaa tgagtgcagg
301 ctctcccgac gaatggcgag gcggagctga gggggcgtgc cccggaggcg ggaagtgggt
361 ggggctcgcc ttagctaggg aggaagtcgg cgcgggcggc gcggacagta tctgtgggta
421 cccggagcac ggagatctcg ccggctttac gttcacctcg gtgtctgcag caccctccgc
481 ttctctcct aggcgacgag acccagtggc tagaagttca ccatgtctat tctcaagatc
541 catgccaggg agatctttga ctctcgcggg aatcccactg ttgaggttga tctcttcacc
601 tcaaaaggtc tcttcagagc tgctgtgccc agtgggtgctt caactggtat ctatgaggcc
661 ctagagctcc gggacaatga taagactcgc tatatgggga aggggtgtctc aaaggctggt
721 gagcacatca ataaaactat tgcgcctgcc ctggttagca agaaactgaa cgtcacagaa
781 caagagaaga ttgacaaact gatgatcgag atggatggaa cagaaaataa atctaagttt
841 ggtgcgaacg ccattctggg ggtgtccctt gccgtctgca aagctggtgc cgttgagaag
901 ggggtccccc tgtaccgcca catcgctgac ttggctggca actctgaagt catcctgcca
961 gtccccggcgt tcaatgtcat caatggcggt tctcatgctg gcaacaagct ggccatgcag
1021 gagttcatga tcctcccagt cgggtgcagca aacttcaggg aagccatgcg cattggagca
1081 gaggtttacc acaacctgaa gaatgtcatc aaggagaaat atgggaaaga tgccaccaat
1141 gtgggggatg aaggcggggt tgctcccaac atcctggaga ataaagaagg cctggagctg
1201 ctgaagactg ctattgggaa agctggctac actgataagg tggtcacagg catggacgta
1261 gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc tcccgatgac
```

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FIG. 34B (continued)

1321 cccagcaggt acatctcgcc tgaccagctg gctgacctgt acaagtcctt catcaaggac
1381 taccagtggt tgtctatcga agatcccttt gaccaggatg actggggagc ttggcagaag
1441 ttcacagcca gtgcaggaat ccaggtagtg ggggatgatc tcacagtgaac caacccaaag
1501 aggatcgcca aggccgtgaa cgagaagtcc tgcaactgcc tcctgctcaa agtcaaccag
1561 attggctccg tgaccgagtc tcttcaggcg tgcaagctgg cccaggccaa tgggtggggc
1621 gtcattggtgt ctcatcggtc gggggagact gaagatacct tcactgctga cctgggtgtg
1681 gggctgtgca ctgggcagat caagactggg gcccttgcc gatctgagcg cttggccaag
1741 tacaaccagc tcctcagaat tgaagaggag ctgggcagca aggctaagtt tgccggcagg
1801 aacttcagaa accccttggc caagtaagct gtgggcaggc aagcccttcg gtcacctgtt
1861 ggctacacag acccctcccc tcgtgtcagc tcaggcagct cgaggccccc gaccaacact
1921 tgcaggggtc cctgctagtt agcgccccac cgccgtggag ttcgtaccgc ttccttagaa
1981 cttctacaga agccaagctc cctggagccc tgttggcagc tctagctttg cagtcgtgta
2041 attggcccaa gtcattgttt ttctcgctc actttccacc aagtgtctag agtcattgta
2101 gcctcgtgtc atctccgggg tggccacagg ctagatcccc ggtggttttg tgctcaaaat
2161 aaaaagcctc agtgacccat gagaataaaa aaaaaaaaaa aaaa

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FIG. 35A

LOCUS NP_001188412 341 aa linear PRI 10-JAN-2014

DEFINITION c-myc promoter-binding protein-1 isoform MBP-1 [Homo sapiens].

ACCESSION NP_001188412

VERSION NP_001188412.1 GI:319996655

```
1  miemdgtenk skfganailg vslavckaga vekgvplyrh iadlagnsev ilpvpafnvi
61  nggshagnkl amqefmilpv gaanfreamr igaevyhnk nvikekygkd atnvgdeggf
121  apnilenkeg lellktaigk agytdkvvig mdvaaseffr sgkydldfks pddpsryisp
181  dqladlyksf ikdypvvsie dpfdqddwga wqkftasagi qvvgddltvt npkriakavn
241  ekscnclllk vngigsvtes lqacklaqan gwgvmvshrs getedtfiad lvvglctgqi
301  ktgapcrser lakynqllri eeelgskakf agrnfrnpla k
```

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FIG. 35B

LOCUS NM_001201483 2567 bp mRNA linear PRI 10-JAN-2014

DEFINITION Homo sapiens enolase 1, (alpha) (ENO1), transcript variant 2, mRNA.

ACCESSION NM_001201483

VERSION NM_001201483.1 GI:319996654

```
1 aactaaagaa aagtttcccc atctcccagg agggttctgt gggccctcca gagatcatca
61 gcctcttcac gggctagaaa ggatccaggg aaggctaac caatgacctg ccctgaatgg
121 tgagctgcag gtgtgtcatt tagtgtgatt ttctgttga ctgactcata ggagccctgc
181 tctgtggcag agctagcctc tggctgtatt caaattgact tagtgtgtgt gcaacattga
241 cctttctaga gatagaacat gtggccaaat tacagaaaag cacatagggc tagatcacgc
301 attctcagtg gggcaccgga aaaactccaa aaaggctgca gggaggggac aatgatgaaa
361 tcagggtgtg aaacactggg ctggtgtcgc agtgggtggg ctgggtgttc agtccccgtt
421 taatgctgta agaagcactc tacacacacg aacatgttac catttgaccg ttgtttaatg
481 gcgtacgtgg ggacttagcc ggagcaggat gatgctgtgc cttgatggta atgagtgtc
541 agtaagtaag cttttgtgga agattgaacg catggccctt gaaatgctct cctctgcttt
601 cctgccccct cactgtctct cactcgcagt ccttaatcac cggttctctt ctgagtctct
661 ctcatTTTTT cttcttcata ctctgtggg caggcgtctc cagaccatt aagtatatta
721 atgagttcct ggcaccagcc ctgtgcactc aggttaactga ttgaacagcc tttagtctgc
781 agttggcggt tccagtgcgt ggtcttgcaa actaacctcc agtcagatcg ttctgagcca
841 gctgctgttt tgtgtggctc taacctctg ggtcctagg taggagcact cagactgggc
901 cggaaagtcc tccgattctg gggggaaaagg ggagaggggg aagaggtccc acagaaggtc
961 ccttggtggg cttccgcgtc ggctcaaca gtggttctct ctaacaatgc tgetcaagcc
1021 tgTTTTTaaag ttaatgtcag taatttgatt tgattgttcc ttccaggtgt ctcaaaggct
1081 gttgagcaca tcaataaaac tattgcgcct gccctgggta gcaagaaact gaacgtcaca
1141 gaacaagaga agattgacaa actgatgatc gagatggatg gaacagaaaa taaatctaag
1201 tttggtgcga acgccattct ggggggtgtc cttgccgtct gcaaagctgg tgccgttgag
1261 aaggggggtc ccctgtaccg ccacatcgct gacttggtct gcaactctga agtcatcctg
```

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FIG. 35B (continued)

1321 ccagtccccg cgttcaatgt catcaatggc ggttctcatg ctggcaacaa gctggccatg
1381 caggagttca tgatcctccc agtcggtgca gcaaacttca ggaagccat gcgcattgga
1441 gcagagggtt accacaacct gaagaatgtc atcaaggaga aatatgggaa agatgccacc
1501 aatgtggggg atgaaggcgg gtttgcctcc aacatcctgg agaataaaga aggcctggag
1561 ctgctgaaga ctgctattgg gaaagctggc tacactgata aggtgggtcat cggcatggac
1621 gtagcggcct ccgagttctt caggtctggg aagtatgacc tggacttcaa gtctcccgat
1681 gacccagca ggtacatctc gcctgaccag ctggctgacc tgtacaagtc cttcatcaag
1741 gactaccag tgggtgtctat cgaagatccc ttgaccagg atgactgggg agcttggcag
1801 aagttcacag ccagtgcagg aatccaggta gtgggggatg atctcacagt gaccaacca
1861 aagaggatcg ccaaggccgt gaacgagaag tcctgcaact gcctcctgct caaagtcaac
1921 cagattggct ccgtgaccga gtctcttcag gcgtgcaagc tggcccaggc caatggttgg
1981 ggcgtcatgg tgtctcatcg ttcgggggag actgaagata cttcatcgc tgacctggtt
2041 gtggggctgt gcaactggga gatcaagact ggtgcccctt gccgatctga gcgcttggcc
2101 aagtacaacc agctcctcag aattgaagag gagctgggca gcaaggctaa gtttgccggc
2161 aggaacttca gaaaccctt ggccaagtaa gctgtgggca ggcaagccct tcggtcacct
2221 gttggctaca cagaccctc ccctcgtgtc agctcaggca gctcgaggcc ccgaccaac
2281 acttgagggt gtccctgcta gttagcgccc caccgccgtg gagttcgtac cgcttcctta
2341 gaacttctac agaagccaag ctccctggag ccctgttggc agctctagct ttgcagtcgt
2401 gtaattggcc caagtcattg tttttctcgc ctactttcc accaagtgtc tagagtcatg
2461 tgagcctcgt gtcactctcg ggggtggccac aggctagatc cccggtgggt ttgtgctcaa
2521 aataaaaagc ctcagtgacc catgagaata aaaaaaaaaa aaaaaaa

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FIG. 36A

LOCUS NM_001975

2423 bp mRNA linear PRI 18-MAY-2014

DEFINITION Homo sapiens enolase 2 (gamma, neuronal) (ENO2), mRNA.

ACCESSION NM_001975

VERSION NM_001975.2 GI:16507966

```

1  acccgcgctc gtacgtgcgc ctccgcgcgc agctcctgac tcatcggggg ctccgggtca
61  catgcgcccc cgcgcccta taggcgcctc ctccgcgcgc cgcccgaggag ccgcagccgc
121 cgccgccact gccactcccg ctctctcagc gccgcgctcg ccaccgccac cgccaccgcc
181 actaccaccg tctgagtctg cagtcccgag atcccagcca tcatgtccat agagaagatc
241 tggggcccgagg agatcctgga ctccgcgcgc aacccacacag tggaggtgga tctctatact
301 gccaaaggctc ttttcggggc tgcagtgcgc agtggagcct ctacggggcat ctatgaggcc
361 ctggagctga gggatggaga caaacagcgt tacttaggca aaggtgtcct gaaggcagtg
421 gaccacatca actccaccat cgcgccagcc ctcatcagct caggtctctc tgtgggtggag
481 caagagaaac tggacaacct gatgctggag ttggatggga ctgagaacaa atccaagttt
541 ggggccaatg ccactcctggg tgtgtctctg gccgtgtgta aggcaggggc agctgagcgg
601 gaactgcccc tgtatcgcca cattgctcag ctggccggga actcagacct catcctgcct
661 gtgcccgcct tcaacgtgat caatggtggc tctcatgctg gcaacaagct ggccatgcag
721 gagttcatga tctctccagt gggagctgag agctttcggg atgccatgcg actaggtgca
781 gaggtctacc atacactcaa gggagctcgc aaggacaaat acggcaagga tgccaccaat
841 gtgggggatg aaggtggctt tgcccccaat atcctggaga acagtgaagc cttggagctg
901 gtgaagggaag ccacgcacaa ggctggctac acggaaaaga tcgttattgg catggatgtt
961 gctgcctcag agttttatcg tgatggcaaa tatgacttgg acttcaagtc tcccactgat
1021 ccttcccgat acatcactgg ggaccagctg ggggcaactc accaggactt tgtcagggac
1081 tatcctgtgg tctccattga ggacccattt gaccaggatg attgggctgc ctggtccaag
1141 ttcacagcca atgtagggat ccagattgtg ggtgatgacc tgacagtgac caacccaaaa
1201 cgtattgagc gggcagtgga agaaaaggcc tgcaactgtc tgctgctcaa ggtcaaccag
1261 atcggtcggc tcaactgaagc catccaagcg tgcaagctgg ccaggagaa tggtggggg
1321 gtcattggtga gtcacgctc aggagagact gaggacacat tcattgctga cctggtggtg
1381 gggctgtgca caggccagat caagactggg gcccgtgcc gttctgaacg tctggctaaa
1441 tacaaccagc tcatgagaat tgagggaagag ctgggggatg aagctcgctt tgccggacat
1501 aacttccgta atcccagtg gctgtgattc ctctgcttgc ctggagacgt ggaacctctg
1561 tctcatcctc ctggaacctt gctgtcctga tctgtgatag ttcacccctt gagatcccct
1621 gagccccagg gtgcccagaa cttccctgat tgacctgctc cgctgctcct tggcttacct
1681 gacctcttgc tgtctctgct cgccctcctt tctgtgccct actcattggg gttccgcact
1741 ttccacttct tctttctct tctctctctt cctcagaaac tagaaatgtg aatgaggatt
1801 attataaaaag ggggtccgtg gaagaatgat cagcatctgt gatgggagcg tcaggggttg
1861 tgtgctgagg tgttagagag ggaccatgtg tcaactgtgc tttgctcttg tcccacgtgt
1921 cttccacttt gcatatgagc cgtgaactgt gcatagtgtt gggatggagg ggagtgttgg
1981 gcatgtgatc acgcctggct aataaggctt tagtgtattt atttatttat ttattttatt
2041 tgtttttcat tcatcccat aatcatttcc ccataactca atggcctaaa actggcctga
2101 cttgggggaa cgatgtgtct gtatttcatg tggctgtaga tccaagatg actgggggtg
2161 gaggtcttgc tagaatggga agggcatag aaagggcctt gacatcagtt cctttgtgtg
2221 tactcactga agcctgcgtt ggtccagagc ggaggctgtg tgctggggg agttttcctc
2281 tatacatctc tccccaccc taggttccct gttcttctc cagctgcacc agagcaacct
2341 ctactcccc atgccacgtt ccacagttgc caccacctct gtggcattga aatgagcacc
2401 tccattaaag tctgaatcag tgc

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FIG. 36B

LOCUS NP_001966

434 aa

linear PRI 18-MAY-2014

DEFINITION gamma-enolase (Eno2) [Homo sapiens].

ACCESSION NP_001966

VERSION NP_001966.1 GI:5803011

```
1 msiekiware ildsrgnptv evdlytakgl fraavpsgas tgiyealelr dgdkqrylgk
61 gvlkavdhin stiapaliss glsvvegekl dnmlleldgt enkskfgana ilgvslavck
121 agaaerelpl yrhiaqlagn sdlilvpaf nvinggshag nkلامgefmi lpvgaesfrd
181 amrlgaevyh tlkgvikdky gkdatnvgde ggfapnilen sealelvkea idkagyteki
241 vigmdvaase fyrdgkydlđ fksptdpsry itgdqlgaly qdfvrđypvv siedpfdqđđ
301 waawskftan vgigivgđđ tvtnpkrier aveekacncl llkvnqigsv teaigackla
361 qengwgvmvs hrsgetedtf iadlvvglct ggiktgapcr serlakynql mrieeelgde
421 arfaghnfrn psvl
```

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FIG. 37A

LOCUS NM_001976

1536 bp mRNA linear

PRI 04-MAY-2014

DEFINITION Homo sapiens enolase 3 (beta, muscle) (ENO3), transcript variant 1, mRNA.

ACCESSION NM_001976

VERSION NM_001976.4 GI:301897468

```
1 ataaatgcgc agcctgagag ggggtgagct gacactgtcc cagctgccac ctagactcgg
61 agtcccatcc aaacctccag cgaagacatc ccaggtcggg tgaatcttcc agccctgggg
121 gtggaggtag taaaggccat ggccatgcag aaaatctttg cccgggaaat cttggactcc
181 aggggcaacc ccacggtgga ggtggacctg cacacggcca agggccgatt ccgagcagct
241 gtgccagtgc gggcttccac gggatatctat gaggtctctg aactaagaga cggagacaaa
301 ggccgctacc tggggaaagg agtcctgaag gctgtggaga acatcaacaa tactctgggc
361 cctgctctgc tgcaaaagaa actaagcgtt gtggatcaag aaaaagttga caaatattatg
421 attgagctag atgggaccga gaataagtcc aagtttgggg ccaatgccat cctgggcgtg
481 tccttgcccg tgtgtaaggc gggagcagct gagaaggggg tccccctgta ccgccacatc
541 gcagatctcg ctgggaaccc tgacctcata ctcccagtcg cagccttcaa tgtgatcaac
601 gggggctccc atgctggaaa caagctggcc atgcaggagt tcatgattct gcctgtggga
661 gccagctcct tcaaggaagc catgcgcatt ggcgccgagg tctaccacca cctcaagggg
721 gtcacacagg ccaagtatgg gaaggatgcc accaatgtgg gtgatgaagg tggcttcgca
781 cccaacatcc tggagaacaa tgaggccctg gagctgctga agacggccat ccaggcggct
841 ggttaccag acaagggtgt gatcggcatg gatgtggcag catctgagtt ctatcgcaat
901 ggaagtacg atcttgactt caagtcgctt gatgatcccc cacggcacat cactggggag
961 aagctcggag agctgtataa gagctttatc aagaactatc ctgtggtctc catcgaagac
1021 ccctttgacc aggatgactg ggccacttgg acctccttcc tctcgggggt gaacatccag
1081 attgtggggg atgacttgac agtcaccaac cccaagagga ttgccagggc cgttgagaag
1141 aaggcctgca actgtctgct gctgaaggtc aaccagatcg gctcgggtgac cgaatcgatc
1201 caggcgtgca aactggctca gtctaattggc tgggggggtga tggtagacca ccgctctggg
1261 gagactgagg acacattcat tgctgacctt gtggtggggc tctgcacagg acagatcaag
1321 actggcgccc cctgcccgtc ggagcgtctg gccaaataca accaactcat gaggatcgag
1381 gaggtctctg gggacaaggc aatctttgct ggacgcaagt tccgtaaccc gaaggccaag
1441 tgagaagctg gaggtccag gactccactg gacagacca ggtcttccag acctgcttcc
1501 tgaaataaac actggtgcca accaagaaaa aaaaaa
```

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FIG. 37B

LOCUS NM_053013

1494 bp mRNA linear

PRI 03-FEB-2014

DEFINITION Homo sapiens enolase 3 (beta, muscle) (ENO3), transcript variant 2,
mRNA.

ACCESSION NM_053013

VERSION NM_053013.3 GI:301897476

```
1 ataaatgcgc agcctgagag ggggtgagct gacactgtcc cagctgccac ctagactcgg
61 agctccatcc aaacctccag cgaagacatc ccagccatgg ccatgcagaa aatctttgcc
121 cgggaaatct tggactccag gggcaacccc acggtggagg tggacctgca cacggccaag
181 ggccgattcc gagcagctgt gcccagtggg gcttccacgg gtatctatga ggctctggaa
241 ctaagagacg gagacaaagg ccgctacctg gggaaaggag tcctgaaggc tgtggagaac
301 atcaacaata ctctgggccc tgcctctgctg caaaagaaac taagcgttgt ggatcaagaa
361 aaagttgaca aatttatgat tgagctagat gggaccgaga ataagtccaa gtttgggggc
421 aatgccatcc tgggcgtgtc cttggccgtg tgtaaggcgg gagcagctga gaagggggtc
481 cccctgtacc gccacatcgc agatctcgct gggaaccctg acctcatact cccagtgcc
541 gccttcaatg tgatcaacgg gggctcccat gctggaaaca agctggccat gcaggagttc
601 atgattctgc ctgtgggagc cagctccttc aaggaagcca tgcgcatagg cgccgaggtc
661 taccaccacc tcaagggggt catcaaggcc aagtatggga aggatgccac caatgtgggt
721 gatgaagggt gcttcgcacc caacatcctg gagaacaatg aggccctgga gctgctgaag
781 acggccatcc aggcggctgg ttaccacagc aaggtgggtg tcggcatgga tgtggcagca
841 tctgagttct atcgcaatgg gaagtacgat cttgacttca agtcgcctga tgatcccgca
901 cggcacatca ctggggagaa gctcggagag ctgtataaga gctttatcaa gaactatcct
961 gtggtctcca tcgaagacce ctttgaccag gatgactggg ccacttggac ctcccttcctc
1021 tcgggggtga acatccagat tgtgggggat gacttgacag tcaccaaccc caagaggatt
1081 gcccaggccg ttgagaagaa ggcctgcaac tgtctgctgc tgaagggtcaa ccagatcggc
1141 tcggtgaccg aatcgatcca ggcgtgcaaa ctggctcagt ctaatggctg gggggtgatg
1201 gtgagccacc gctctgggga gactgaggac acattcattg ctgaccttgt ggtggggctc
1261 tgcacaggac agatcaagac tggcgccccc tgccgctcgg agcgtctggc caaatacaac
1321 caactcatga ggatcgagga ggctcttggg gacaaggcaa tctttgctgg acgcaagttc
1381 cgtaaccgca aggccaaagt agaagctgga ggctccagga ctccactgga cagaccagg
1441 tcttcagac ctgcttcctg aaataaacac tggtgccaac caagaaaaaa aaaa
```

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FIG. 37C

LOCUS NP_001967

434 aa linear

PRI 04-MAY-2014

DEFINITION beta-enolase (Eno3) isoform 1 [Homo sapiens].

ACCESSION NP_001967

VERSION NP_001967.3 GI:301897469

```
1 mamqkifare ildsrgnptv evdlhtakgr fraavpsgas tgiyealelr dgdkgrylgk
61 gvlkavenin ntlgpallqk klsvvdqekv dkfmielugt enkskfgana ilgvslavck
121 agaaekgvpl yrhiadlagn pdlilvpaf nvinggshag nklamqefmi lpvgassfke
181 amrigaevyh hlkgvikaky gkdatnvgde ggfapnlen nealellkta iqaagypdkv
241 vigmdvaase fyrngkydld fkspddparh itgeklgely ksfiknypvv siedpfdqdd
301 watwtsflsg vniqivgddl tvtnpkriaq avekkacncl llkvnqigsv tesiqackla
361 qsngwgvmvs hrsgetedtf iadlvvglct gqiktgapcr serlakynql mrieealgdk
421 aifagrkfrn pkak
```

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FIG. 37D

LOCUS NM_001193503

1365 bp mRNA linear

PRI 26-FEB-2014

DEFINITION Homo sapiens enolase 3 (beta, muscle) (ENO3), transcript variant 3,
mRNA.

ACCESSION NM_001193503

VERSION NM_001193503.1 GI:301897478

```
1 ataaatgcgc agcctgagag ggggtgagct gacactgtcc cagctgccac ctagactcgg
61 agctccatcc aaacctccag cgaagacatc ccagccatgg ccatgcagaa aatctttgcc
121 cgggaaatct tggactccag gggcaacccc acggtggagg tggacctgca cacggccaag
181 ggccgattcc gagcagctgt gccagtgagg gcttccacgg gtatctatga ggctctggaa
241 ctaagagacg gagacaaagg ccgctacctg gggaaagcca agtttggggc caatgccatc
301 ctgggcgtgt cettggccgt gtgtaaggcg ggagcagctg agaagggggg cccctgttac
361 cgccacatcg cagatctcgc tgggaaccct gacctcatal tcccagtgcc agccttcaat
421 gtgatcaacg ggggctccca tgctggaaac aagctggcca tgcaggagtt catgattctg
481 cctgtgggag ccagctcctt caaggaagcc atgcgcatgt gcgccgaggt ctaccaccac
541 ctcaaggggg tcatcaaggc caagtatggg aaggatgcca ccaatgtggg tgatgaaggt
601 ggcttcgcac ccaacatcct ggagaacaat gaggccttgg agctgctgaa gacggccatc
661 caggcggtct gttaccacga caaggtggtg atcggcatgg atgtggcage atctgagttc
721 tatcgcaatg ggaagtacga tcttgacttc aagtcgctg atgatccgc acggcacatc
781 actggggaga agctcggaga gctgtataag agctttatca agaactatcc tgtggtctcc
841 atcgaagacc cttttgacca ggatgactgg gccacttggc cctccttctc ctcgggggtg
901 aacatccaga ttgtggggga tgacttgaca gtcaccaacc ccaagaggat tgcccaggcc
961 gttgagaaga aggcctgcaa ctgtctgctg ctgaaggcca accagatcgg ctcggtgacc
1021 gaatcgatcc aggcgtgcaa actggctcag tctaattggt ggggggtgat ggtgagccac
1081 cgctctgggg agactgagga cacattcatt gctgaccttg tgggggggct ctgcacagga
1141 cagatcaaga ctggcgcccc ctgcccgtcg gagcgtctgg ccaaatataa ccaactcatg
1201 aggatcgagg aggcctcttg ggacaaggca atctttgctg gacgcaagtt ccgtaaccgg
1261 aaggccaagt gagaagctgg aggcctcagg actccactgg acagaccag gtcttccaga
1321 cctgcttcct gaaataaaca ctggtgccaa ccaagaaaaa aaaaa
```

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FIG. 37E

LOCUS NP_001180432

391 aa linear

PRI 26-FEB-2014

DEFINITION beta-enolase isoform 2 of Eno3 [Homo sapiens].

ACCESSION NP_001180432

VERSION NP_001180432.1 GI:301897479

```
1 mamqkifare ildsrgnptv evdlhtakgr fraavpsgas tgiyealelr dgdkgrylgk
61 akfganailg vslavckaga aekgvplyrh iadlagndp1 ilpvpafnvi nggshagnkl
121 amgefmlpv gassfkeamr igaevyhhk gvikakygkd atnvgdeggf apnilennea
181 lellktaiqa agypdkvvig mdvaasefyr ngkydlfks pddparhitg eklgelyksf
241 iknypvvsie dpfdqddwat wtsflsgvni qivgddltvt npkriaqave kkacnclllk
301 vnqigsvtes iqacklaqsn gwgvmvshrs getedtfiad lvvglctgqi ktgapcrser
361 lakynqlmri eealgdkaif agrkfrnpka k
```