

A mouse cDNA sequence for epididymal androgen-regulated proteins related to glutathione peroxidase

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A cDNA was isolated from a murine epididymal cDNA library in λgt11 by differential hybridization. This cDNA codes for 24kDa androgen-regulated epididymal secretory proteins (1). The sequence is presented below, along with the predicted amino acid sequence. Comparison of the present data with entries in protein sequence data bases revealed about 67% homology with the mouse glutathione peroxidase (2) at the amino acid level. This cDNA emphasizes previous observations suggesting that the major protective system against peroxide damage in mouse sperm could be a glutathione peroxidase-like system (3).

REFERENCES

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TCTCTTAATGGGAAGGAACACATTCCATTCAAGCAGTATCGAGGAAAGCACGTCCTCTTTGTCAATGTGGCTACC      75
 S  L  N  G  K  E  H  I  P  F  K  Q  Y  R  G  K  H  V  L  F  V  N  V  A  T      25
TATTGCGGTCTGACAATCCAGTACCCTGAGCTGAATGCACTCCAGGAGGATCTGAAGCCATTTGGCTTGGTTATA     150
 Y  C  G  L  T  I  Q  Y  P  E  L  N  A  L  Q  E  D  L  K  P  F  G  L  V  I      50
TTGGGCTTTCCCTGCAACCAATTTGGAAAGCAAGAACCAGGAGACAATTTAGAGATTCTTCCTGGGCTCAAGTAT     225
 L  G  F  P  C  N  Q  F  G  K  Q  E  P  G  D  N  L  E  I  L  P  G  L  K  Y      75
GTTCGTCCAGGAAAAGGGTTTTTACCTAACTTCCAGCTTTTTGCAAAAGGGGATGTAAATGGTGAAAACGAGCAG     300
 V  R  P  G  K  G  F  L  P  N  F  Q  L  F  A  K  G  D  V  N  G  E  N  E  Q     100
AAAATCTTCACCTTCTTGAAGCGTTCTTGTCCTCACCCCTCAGAGACTGTGGTCATGAGCAAACATACCTCCTGG     375
 K  I  F  T  F  L  K  R  S  C  P  H  P  S  E  T  V  V  M  S  K  H  T  S  W     125
GAGCCAATAAAAGTCCATGACATCCGCTGGAACTTTGAGAAGTTCCTGGTGGGACCCGATGGCGTCCCTGTCATG     450
 E  P  I  K  V  H  D  I  R  W  N  F  E  K  F  L  V  G  P  D  G  V  P  V  M     150
CGCTGGTTCCACCAGGCTCCTGTCAGCACTGTCAAGTCTGACATCATGGCGTACCTGAGCCATTTCAAAACCATA     525
 R  W  F  H  Q  A  P  V  S  T  V  K  S  D  I  M  A  Y  L  S  H  F  K  T  I     175
TAGGAAGGCCAAGCTTCTGACCTCTTCCTCCTTCCCCCTTAAAGACTGCTCTGAAAAAAAGACTCCATCTTCTCA     600
End
GCACACTCTTCACTGAAATGGACTCTACCTCCCAAGTCACCCCTAAATTGCCTAAGTTCTTCCCCTGCACAAGTA     675
GATTTGTGTCTGGGAAGCTGTAGATGTTTTTCCTTGTTAGATTTATGAGTTGAAGAGAGAAAATAAAATAAAAAA     750
GAAAAAAGCTAAATCCAGAGACCTCAGAGGTTTGGCTGAGTATGTTAGTACTCACCTATAATGTCGCACTCAGCA     825
GACATTACAGACATTTCAGACAGTAAGCGACAGGAGGAACATGAATGGCAGGCCAGCCTAAGCTACAAGATATCA     900
TGTGTCCAAAAAAAAAAAAAAAAATCCACGACCACCAACACAACCCGATTGAACTACTCTAATTCACCAAAGGATA     975
TGGGGATAGCTTGGTTGAAGGCTGTATCTGAAGGAAGAGTCCTTGGCCATTCAGAGTCTTTCTCTTCCCAGCCTG    1050
AAGGTGGAGAAAGAGCAATGGAGGCTGGTCAGACAATCTAGTTTGCTCCTCTGAAACTGTGTGTCTCCTGAGACA    1125
AATGCCTTGTCAGTTCCTGAGGTCTTTTAATTCGGTCTTCATCTCTGTCTCCATCCTCTCTGCCCTTCTCCTGCG    1200
GCCAATCTGAGGGAGAGTCTGAGCAGATTGACTGGCACAGGAGGAGGGCATCTCCCTGATGCCAGGATCGGGGAC    1275
TTGTCCTGATTCTGCATAAGTGCTCCTTTCTGTGTGATCTTCACGGGGTCAGCTAGTGCTTATGAGTGGGGATGC    1350
CTTTCATCATCTGAAGAGTAGGACCCCCCACATGCAGACCCCAACCTGGGATTCTTCAACTTCGAAACTAGACAT    1425
ATTATTTCCAATAAAATGTTTTCTGAAGCAAAAAAAAAAAAAAAAA                                  1471
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