



# Recombinant Dog Epididymal secretory glutathione peroxidase (GPX5)

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| <b>Product Code</b>      | CSB-EP009870DO-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Uniprot No.</b>       | O46607                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen Species</b> | Canis lupus familiaris (Dog) (Canis familiaris)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>            | >85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequence</b>          | NAKPEKTKM DCYKDVKGTI YEYEALTLNG NERIQFKQYP RKHVLFVNVA<br>TYCGLTAQYP ELNSLQEELK PLGLVVLGFP CNQFGKQGPG ENSEILPGLK<br>YVRPGRGYVP NFQLFEKGDV NGEKEQKVFT FLKLSCPHPS EVLGSFRHIS<br>WDPVKVHDIR WNFEKFLVGP DGVPVLRWFH RTPISTVKED ILVYLKQLKM K                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target Names</b>      | GPX5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Names</b>     | Recommended name: Epididymal secretory glutathione peroxidase EC= 1.11.1.9 Alternative name(s): Epididymis-specific glutathione peroxidase-like protein Short name= EGLP Glutathione peroxidase 5 Short name= GPx-5 Short                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expression Region</b> | 22-221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target Details</b>    | This gene belongs to the glutathione peroxidase family. It is specifically expressed in the epididymis in the mammalian male reproductive tract, and is androgen-regulated. Unlike mRNAs for other characterized glutathione peroxidases, this mRNA does not contain a selenocysteine (UGA) codon. Thus, the encoded protein is selenium-independent, and has been proposed to play a role in protecting the membranes of spermatozoa from the damaging effects of lipid peroxidation and/or preventing premature acrosome reaction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.                                                                                                                                                                                                                                   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life                                                                                                                                                                                                                                                                                                                                                                                                                |



of lyophilized form is 12 months at -20°C/-80°C.