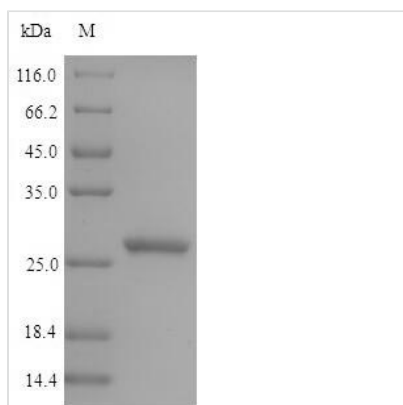




# Recombinant Pig Epididymal secretory glutathione peroxidase (GPX5)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP009870PI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Relevance</b>         | May constitute a glutathione peroxidase-like protective system against peroxide damage in sperm membrane lipids. Since the purified porcine enzyme has very little activity towards hydrogen peroxide or organic hydroperoxides the protective effect is not likely to be exerted by its enzymatic activity. Instead, may protect sperm from premature acrosome reaction in the epididymis by binding to lipid peroxides, which might otherwise interact with phospholipase A2 and induce the acrosome reaction. |
| <b>Abbreviation</b>      | Recombinant Pig GPX5 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</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.                                                                                                                                                                                                                                  |
| <b>Uniprot No.</b>       | O18994                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Alias</b>             | Epididymis-specific glutathione peroxidase-like protein Short name:EGLP                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Immunogen Species</b> | Sus scrofa (Pig)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequence</b>          | NSNLEKMDCYKDVTGTIYDYDAFTLNGNEHIQFKQYAGKHVLFVNVATYCGLT<br>AQYPELNTLQEELKPFGVLVLFPCNQFGKQEPGENSEILLGLKYVRPGGGYV<br>PNFQLFEKGDVNGEKEQKVFTFLKHSCPHSELIGSIGYISWEPIRVHDIRWNF<br>EKFLVGPDGVPVMRWVHETPISTVKSDILAYLKQFKTE                                                                                                                                                                                                                                                                                                 |
| <b>Research Area</b>     | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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> | 22-219aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>          | N-terminal 6xHis-tagged and C-terminal Myc-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Mol. Weight</b>       | 26.1kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Image</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Reconstitution

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.

### Shelf Life

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.