



# Recombinant Dog Epididymal secretory glutathione peroxidase (GPX5)

<b>Product Code</b>	CSB-BP009870DO
<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 TYCGLTAQYP ELNSLQEELK PLGLVVLGFP CNQFGKQGPG ENSEILPGLK YVRPGRGYVP NFQLFEKGDV NGEKEQKVFT FLKLSCPHPS EVLGSFRHIS WDPVKVHDIR WNFEKFLVGP DGVPVLRWFH RTPISTVKED ILVYLKQLKM K
<b>Source</b>	Baculovirus
<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.