

GPX5 Protein, Pig, Recombinant (E. coli, His & Myc)

General Information

Synonyms:	Epididymal secretory glutathione peroxidase;Epididymis-specific glutathione peroxidase-like protein (EGLP);GPX5;Glutathione peroxidase 5 (GPx-5;GSHPx-5)
Protein Construction:	22-219 aa
Species:	Sus scrofa (Pig)
Expression Host:	E. coli
Accession:	O18994
Molecular Weight:	27.6 kDa (predicted)
AA Sequence:	NSNLEKMDCYKDVTGTIYDYDAFTLNGNEHIQFKQYAGKHVLFVNVATYCGLTAQYPELNTLQEELKPFGLVV LGPCNQFGKQEPGENSEILLGLKYVRPGGGYVPNFQLFEKGDVNGEKEQKVFTFLKHSCPHPSSELIGSIGYIS WEPIRVHDIRWNFEKFLVGPDPVPMRWVHETPISTVKSDILAYLKQFKTE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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

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with phospholipase A2 and induce the acrosome reaction.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481