

## GSTP1 Protein, Rat, Recombinant (His)

### General Information

Synonyms:	GST class-pi;GST 7-7;Chain 7;Glutathione S-transferase P;Gstp1
Protein Construction:	2-210 aa
Species:	Rat
Expression Host:	E. coli
Accession:	P04906
Molecular Weight:	27.3 kDa (predicted)
AA Sequence:	PPYTIVYFPVRGRCEATRMILLADQGQSWKEEVVTIDVWLQGLKSTCLYGQLPKFEDGDLTYQSNAILRHLG RSLGLYGKDKQKEAALVDMVNDGVEDLRCKYGTLIYTNYENGGDDYVKALPGHLKPFETLLSQNQGGKAFIVG NQISFADYNLLDLLLVHQVLAPGCLDNFPLLSAYVARLSARPKIKAFLLSSPDHLNRPINGNGKQ

### 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. <small>Actual storage temperature shall be subject to the COA.</small>

### Shipping:

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

### Protein Background

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2). Participates in the formation of novel hepoxilin regioisomers. Regulates negatively CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

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