

GSTP1 Protein, Rat (His)

Cat. No.:	HY-P72217
Synonyms:	Gstp1; Glutathione S-transferase P; EC 2.5.1.18; Chain 7; GST 7-7; GST class-pi
Species:	Rat
Source:	E. coli
Accession:	P04906 (P2-Q210)
Gene ID:	24426
Molecular Weight:	Approximately 24 kDa

PROPERTIES

AA Sequence	<p> P P Y T I V Y F P V R G R C E A T R M L L A D Q G Q S W K E E V V T I D V W L Q G S L K S T C L Y G Q L P K F E D G D L T L Y Q S N A I L R H L G R S L G L Y G K D Q K E A A L V D M V N D G V E D L R C K Y G T L I Y T N Y E N G K D D Y V K A L P G H L K P F E T L L S Q N Q G G K A F I V G N Q I S F A D Y N L L D L L L V H Q V L A P G C L D N F P L L S A Y V A R L S A R P K I K A F L S S P D H L N R P I N G N G K Q </p>
Biological Activity	Measured by the conjugation of reduced glutathione to 2mM 1-bromo-2,4-dinitrobenzene that incubate at room temperature in kinetic mode for 5 minutes. The specific activity is ≤ 26085.069 pmol/min/ μ g.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μ m solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or 50 mM Tris-HCl, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GSTP1 protein is responsible for conjugating reduced glutathione to various hydrophobic electrophiles, both exogenous and endogenous. It plays a role in forming glutathione conjugates of prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2),
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as well as contributing to the production of unique hepoxilin regioisomers. Additionally, GSTP1 helps regulate CDK5 activity by facilitating the translocation of p25/p35, thereby preventing neurodegeneration.

Caution: Product has not been fully validated for medical applications. For research use only.

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