

## GSTP1 Protein, Rat (His)

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

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Biological Activity</b>	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 $\leq 26085.069$ pmol/min/ $\mu$ g.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ 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.
<b>Endotoxin Level</b>	<1 EU/ $\mu$ g, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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),
-------------------	---

---

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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA