

GSTP1 Protein, *Cricetulus longicaudatus* (His-Myc)

Cat. No.:	HY-P72214
Synonyms:	GSTP1Glutathione S-transferase P; EC 2.5.1.18; GST class-pi
Species:	Others
Source:	E. coli
Accession:	P46424 (M1-Q210)
Gene ID:	100689311
Molecular Weight:	Approximately 28.7 kDa

PROPERTIES

AA Sequence	<pre> M P P Y T I V Y F P V R G R C E A M R I L L A D Q G Q S W K E E V V T V E T W R K 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 R E A A L V D M V N D G V E D L R C K Y I T L I Y T K Y E E 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 D Q I S F V D Y N L L D L L L I 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 V N R P I N G N G K Q </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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, a pivotal player in cellular detoxification processes, facilitates the conjugation of reduced glutathione to a diverse array of hydrophobic electrophiles, both of exogenous and endogenous origin. This enzymatic activity extends to the formation of glutathione conjugates for prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2), as well as contributing to the synthesis of unique hepxilin regioisomers. Beyond its role in xenobiotic metabolism, GSTP1 exhibits regulatory functions by negatively modulating CDK5 activity, preventing neurodegeneration by impeding the translocation of p25/p35 to CDK5.
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This multifaceted enzyme serves as a critical guardian of cellular homeostasis, participating in diverse biochemical pathways with implications for cellular health and response to various physiological challenges.

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

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