

GSTP1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71740
Synonyms:	Deafness; Deafness X-linked 7; DFN7; FAES3; GSTP; Gstp1; GSTP1-1; PI; X linked 7
Species:	Human
Source:	P. pastoris
Accession:	P09211 (P2-Q210)
Gene ID:	2950
Molecular Weight:	Approximately 25.7 kDa

PROPERTIES

AA Sequence	<p> P P Y T V V Y F P V R G R C A A L R M L L A D Q G Q S W K E E V V T V E T W Q E G S L K A S C L Y G Q L P K F Q D G D L T L Y Q S N T I L R H L G R T L G L Y G K D Q Q E A A L V D M V N D G V E D L R C K Y I S L I Y T N Y E A G K D D Y V K A L P G Q L K P F E T L L S Q N Q G G K T F I V G D Q I S F A D Y N L L D L L L I H E V L A P G C L D A F P L L S A Y V G R L S A R P K L K A F L A S P E Y V N L P I N G N G K Q </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 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	<p>The GSTP1 protein plays a crucial role in the cellular process of conjugating reduced glutathione to a diverse range of exogenous and endogenous hydrophobic electrophiles. Specifically, GSTP1 is actively involved in the formation of glutathione conjugates for prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2), as documented in studies. Furthermore, GSTP1 participates in the synthesis of novel hepixilin regioisomers, underscoring its versatility in handling various substrates. Beyond its role in detoxification, GSTP1 negatively regulates CDK5 activity by facilitating the translocation of</p>
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p25/p35, serving as a crucial mechanism to prevent neurodegeneration.

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

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