

Active Recombinant Human GSTP1, His-tagged

Cat. No. GSTP1-1086H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GSTP1 (NP_000843, 1 a.a. - 210 a.a.) full-length recombinant protein with His tag expressed in Escherichia coli.
Species	Human
Source	Human
Description	GSTP1 is a glutathione S-transferase that belongs to the pi class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles, including reactive products of lipid, protein, carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress.
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMPP YTVVYFPVRG RCAALRMLLA DQGQSWKEEV VTVETWQEGS LKASCLYGQL PKFQDGD LTL YQSNTILRHL GRTLGLYGKD QQEAALVDMV NDGVEDLRCK YISLIYTNYE AGKDDYVKAL PGQLKPFETL LSQNQGGKTF IVGDQISFAD YNLLDLLLIH EVLAPGCLDA FPLLSAYVGR LSARPKLKAF LASPEYVNL P INGNGKQ
Theoretical MW (kDa)	27.6
Form	Liquid
Preparation Method	E. coli expression system

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Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Activity	Specific activity is < 6.5 units/mg, and is defined as the amount of enzyme that conjugate 1.0 umole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.
Application	SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl, 1 mM EDTA, 0.1 mM PMSF, pH 7.0 (30% glycerol)
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P09211

GENE INFORMATION

Gene Name	GSTP1 glutathione S-transferase pi 1 [Homo sapiens]
Official Symbol	GSTP1
Synonyms	GSTP1; glutathione S-transferase pi 1; PI; DFN7; GST3; FAEES3; deafness, X-linked 7; fatty acid ethyl ester synthase III; EC 2.5.1.18; 3` partial; GST class-pi; GSTP1-1; OTTHUMP00000174659; glutathione transferase
Gene ID	2950
mRNA Refseq	NM_000852

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Protein Refseq	NP_000843
MIM	134660
Chromosome Location	11q13-qter
Pathway	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450; Pathways in cancer; Prostate cancer; Biological oxidations
Function	glutathione transferase activity; protein binding; transferase activity

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