

GSTP1 active protein

GSTP1, 1-210aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48543	HOST E Coli	APPLICATIONS SDS-Page
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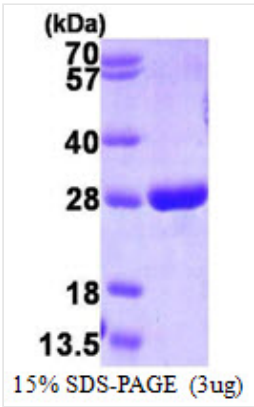
PRODUCT SYNONYMS

GSTP1; 1-210aa; Human; His tag; E Coli (Bioactivity Validated); Glutathione S-transferase P; DFN7; FAES3; GST3; PI; Glutathione S-transferase P Fatty Acid Ethyl Ester Synthase III; Glutathione S Transferase Pi; Glutathione S-Transferase pi 1; GSTP1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 7.0) containing 30% glycerol, 1mM EDTA, 0.1mM PMSF.
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMPPY TVVYFPVRGR CAALRMLLAD QGQSWKEEVV TVETWQEGSL KASCLYGQLP KFQDGLTLY QSENTILRHLG RTLGLYGKDQ QEALVDMVN DGVEDLRCKY ISLIYTNYEA GKDDYVKALP GQLKPFETLL SQNQGGKTFI VGDQISFADY NLLDLLLIHE VLAPGCLDAF PLLSAYVGRL SARPCLKAFL ASPEYVNLPI NGNGKQ
Sequence Length	210
Applicable Applications for GSTP1 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 80 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 25C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GSTP1 active protein	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. Recombinant GSTP1 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for GSTP1 active protein	Enzymes & Proteases
References	Lee KA, et al. (2001) Blood. 98 (12):3483-5.; Hayes JD, et al. (1995) Crit Rev Biochem Mol Biol. 30 (6):445-600.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504183
NCBI GeneID	2950
NCBI Accession #	NP_000843
NCBI GenBank Nucleotide #	NM_000852.3
UniProt Accession #	P09211; O00460; Q15690; Q5TZY3
Molecular Weight	27.4kDa (246aa) confirmed by MALDI-TOF
NCBI Official Full Name	glutathione S-transferase P
NCBI Official Synonym Full Names	glutathione S-transferase pi 1
NCBI Official Symbol	GSTP1
NCBI Official Synonym Symbols	PI; DFN7; GST3; GSTP; FAEES3; HEL-S-22
NCBI Protein Information	glutathione S-transferase P
UniProt Protein Name	Glutathione S-transferase P
UniProt Gene Name	GSTP1
UniProt Synonym Gene Names	FAEES3; GST3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.