

Active Recombinant Human GSTP1 Protein (1-210aa), N-His tagged

Cat. No. GSTP1-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human GSTP1 protein (1-210aa) was expressed in E. coli and purified by using conventional chromatography techniques.

Species

Human

Source

E.coli

ProteinLength

1-210aa

Description

Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases.

Form

Liquid

Bio-activity

> 80 unit/mg, and is defined as the amount of enzyme that conjugate 1.0 μ mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25 centigrade.

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Molecular Mass	27.4 kDa (246aa) confirmed by MALDI-TOF
AA Sequence	MPPYTVVYFPVRGRCAALRMLLADQQQSWKEEVVTVETWQEGSLKASCLYGQLPK FQDGLTLYQSNTILRHLGRTLGLYGKDQQAALVDMVNDGVEDLRCKYISLIYTNY EAGKDDYVKALPGQLKPFETLLSQNQGGKTFIVGDQISFADYNLLDLLLIHEVLAPGC LDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPIGNGKQ
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	20mM Tris-HCl buffer (pH 7.0) containing 30% glycerol, 1mM EDTA, 0.1mM PMSF.
GENE INFORMATION	
Gene Name	GSTP1 glutathione S-transferase pi 1 [Homo sapiens (human)]
Official Symbol	GSTP1
Synonyms	GSTP1; glutathione S-transferase pi 1; FAEES3, GST3; glutathione S-transferase P; GSTP; GSTP1-1; GST class-pi; deafness, X-linked 7; fatty acid ethyl ester synthase III; PI; DFN7; GST3; FAEES3;
Gene ID	2950

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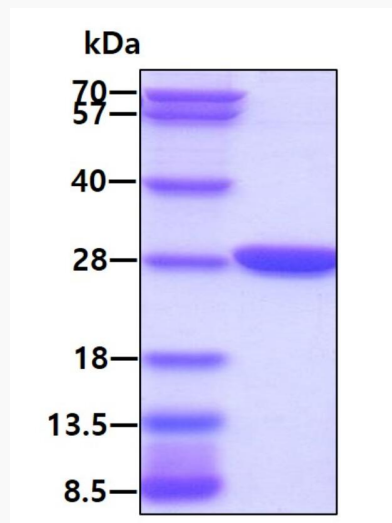
mRNA Refseq [NM_000852](#)

Protein Refseq [NP_000843](#)

MIM [134660](#)

UniProt ID [P09211](#)

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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