Recombinant human Glutathione S-Transferase pi 1/GSTP1 protein

Catalog Number: ATGP0341

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-210aa

UniProt No.
P09211

NCBI Accession No.
NP_000843

Alternative Names
SERPINF1, Serpin peptidase inhibitor clade F member 1, Proliferation inducing protein 35, Pigment epithelium-derived factor EPC 1, Pigment epithelium-derived factor, PIG35, PI, GSTP1, GST3, Glutathione S-Transferase Pi 1, Glutathione S-transferase P Fatty Acid Ethyl Ester Synthase III, Glutathione S-transferase P, Glutathione S Transferase Pi, FAEES3, EPC1, DFN7, APF0619

PRODUCT SPECIFICATION

Molecular Weight
27.4 kDa (246aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.0) containing 30% glycerol, 1mM EDTA, 0.1mM PMSF.

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is > 80unit/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.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

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. Recombinant GSTP1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

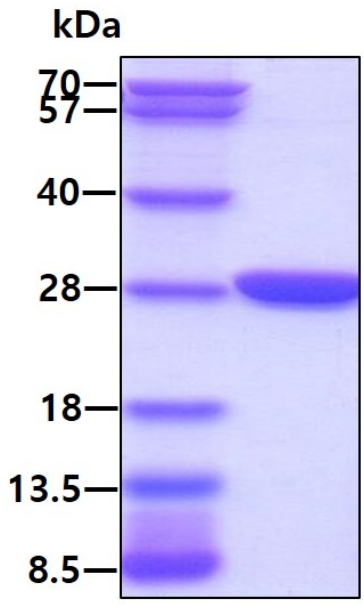
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MPPY TVVYFPVRGR CAALRMLLAD QGQSWKEEVV TVETWQEGSL KASCLYGQLP KFQDGDLTLY QSNTILRHLG RTLGLYGKDQ QEAALVDMVN DGVEDLRCKY ISLIYTNYEA GKDDYVKALP GQLKPFETLL SQNQGGKTFI VGDQISFADY NLLDLLLIHE VLAPGCLDAF PLLSAYVGRL SARPKLKAFL ASPEYVNLPI NGNGKQ

General 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.