Glutathione S Transferase Pi (GSTp) Active Protein | GSTp active protein

Active Glutathione S Transferase Pi (GSTp)

CATALOG #	HOST	APPLICATIONS
AAA148150	**E. coli**	**Invitro Assay, Activity Assay, Cell Culture**

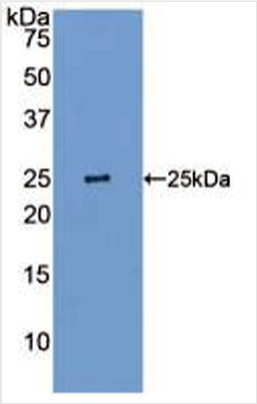
PRODUCT SYNONYMS

Glutathione S Transferase Pi (GSTp); Active Glutathione S Transferase Pi (GSTp); GSTp active protein

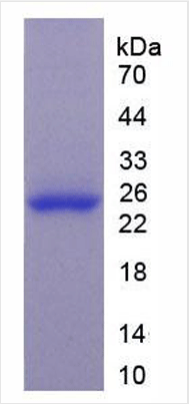
PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl and 5% trehalose.
Applicable Applications for GSTp active protein	Invitro Assay, Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Met1~Gln210
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.2
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

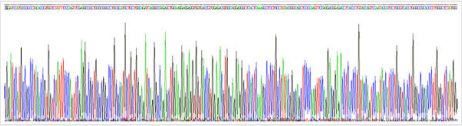
IMAGES



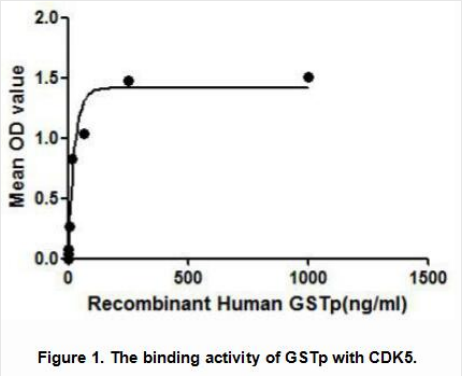
WB (Western Blot)
Western Blot; Sample: Recombinant GSTp, HumanAntibody: Rabbit Anti-Human GSTp Ab



SDS_PAGE
SDS-PAGE ImageSample: Active Recombinant GSTp, Human



Gene Sequencing
Gene Sequencing (extract



Bioactivity

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MPPYTVVYFP VRGRCAALRM LLADQGQSWK EEVVTVETWQ EGSLKASCLY
GQLPKFQDGD LTLYQSNTIL RHLGRTLGLY GKDQQEAALV DMVNDGVEDL
RCKYISLIYT NYEAGKDDYV KALPGQLKPF ETLLSQNQGG KTFIVGDQIS
FADYNLLDLL LIHEVLAPGC LDAFPLLSAY VGRLSARPKL KAFLASPEYV
NLPINGNGKQ
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Sequence

ADDITIONAL INFORMATION

Related Product Information for GSTp active protein	GSTp (Glutathione S-transferase P) is an enzyme that plays an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. GSTP1 is identified as a CDK5 (Cyclin dependent kinase-5) regulatory protein, and is thought to regulates negatively CDK5 activity via p25/p35 translocation. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human GSTp and recombinant human CDK5. Briefly, GSTp were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CDK5-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-GSTp pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of of GSTp and CDK5 was shown in Figure 1, and this effect was in a dose dependent manner.
Product Categories/Family for GSTp active protein	Enzyme & Kinase; Metabolic pathway; Tumor immunity; Hepatology

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P09211; O00460; Q15690; Q5TZY3
Molecular Weight	Predicted Molecular Mass: 24.6kDa Accurate Molecular Mass: 25kDa as determined by SDS-PAGE reducing conditions.

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.

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Online datasheet: https://www.aaabiotech.com/e-coli-active-protein/glutathione-s-transferase-pi-gstp/148150