

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

Active Glutathione S Transferase Pi (GSTp)

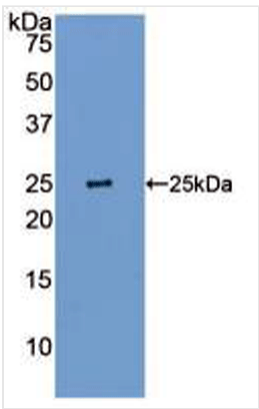
CATALOG # AAA148150	HOST E. coli	APPLICATIONS Invitro Assay, Activity Assay, Cell Culture
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PRODUCT SYNONYMS

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

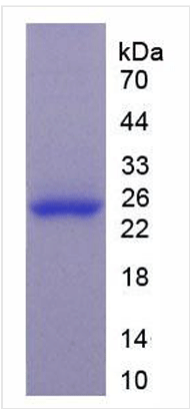
PRODUCT SPECIFICATIONS

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.



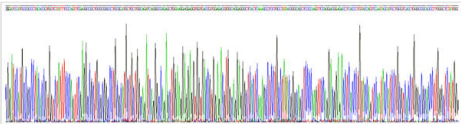
WB (Western Blot)

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)

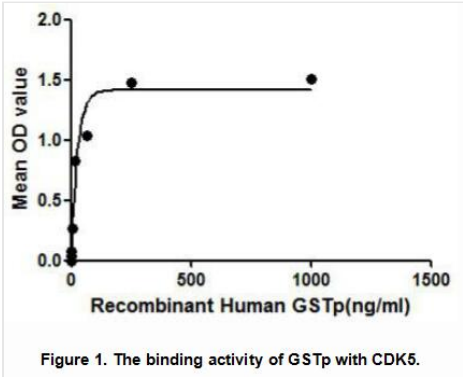


Figure 1. The binding activity of GSTp with CDK5.

Bioactivity

MPPYTVVYFP VRGCAALRM LLADQGQSHK EEVTVVETWQ EGSLKASCLY
GQLPKFQDGD LTLYQSNITL RHLGRTLGLY GKDQQAALV DMVNDGVEDL
RCKYISLIYT NYEAGKDDYV KALPGQLKPF ETLLSQNQG KTFIVGDQIS
FADYNLLDLL LIHEVLAPGC LDAFPLLSAY VGRLSARPKL KAFLASPEYV
NLPINGNGKQ

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://stage.aaabiotech.com/e-coli-active-protein/glutathione-s-transferase-pi-gstp/148150>