

# Recombinant *S. Japonicum* Glutathione S-transferase/GST protein

Catalog Number: GST0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-218aa

### UniProt No.

P08515

### NCBI Accession No.

AAB59203.1

### Alternative Names

Glutathione S-transferase class-mu 26 kDa isozyme, GST 26, Sj26 antigen, SjGST

## PRODUCT SPECIFICATION

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### Molecular Weight

26 kDa (224aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Biological Activity

Specific activity is > 20unit/mg, and is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.

### Tag

Non-Tagged

### 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.

## BACKGROUND

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### Description

Glutathione S-transferase (GST) represents a major group of detoxification enzymes. 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 range of compounds, including

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carcinogens, therapeutic drugs, and products of oxidative stress. As well as its enzymatic activities, GST may also bind toxins and function as transport protein. Because of this, an early term for GSTs was ligandin. Glutathione S-transferase was originally separated from *Schistosoma japonicum* but currently isolated from recombinant *E. coli* source. Recombinant GST was expressed in *E. coli* and purified by conventional chromatography techniques.

## Amino acid Sequence

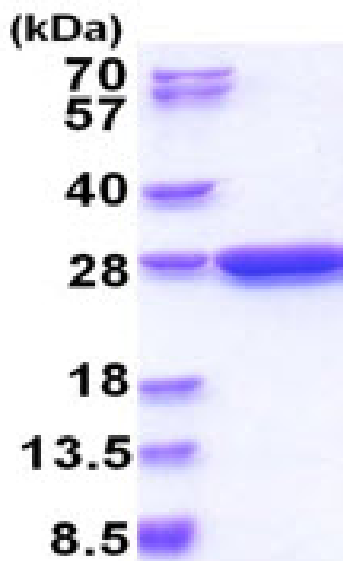
MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN  
MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHSVTH PDFMLYDALD  
VVLYMDPMCL DAFPCLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPR

## General References

Hayes JD., et al. (1995). *Crit Rev Biochem Mol Biol.* 30(6):445-600  
Bekett GJ., et al. (1987). *J. Clin Biochem Nutr.* 2, 1-24  
Smith DB., et al. (1988). *Mol Biochem Parasitol.* 27(2-3):249-56.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)