NKMAXBio We support you, we believe in your research Recombinant S. Japonicum Glutathione S-transferase/GST protein

Catalog Number: GST0801

### **PRODUCT INFORMATION**

**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**

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

### 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 KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID 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



15% SDS-PAGE (3ug)

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

