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

Catalog Number: ATGP3792

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-218aa

#### **UniProt No.**

P08515

#### **NCBI Accession No.**

AAB59203

#### **Alternative Names**

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

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

25.4 kDa (218aa)

#### Concentration

1mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

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

## **Biological Activity**

Specific activity is > 30unit/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

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**

GST, also known as, Glutathione S-transferase, represents a major group of detoxification enzymes. GST 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 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. GST was originally separated from Schistosomajaponicum but currently isolated from recombinant E. coli source. Recombinant Schistosoma japonicum GST was expressed in E. coli and purified by conventional chromatography techniques.

#### **Amino acid Sequence**

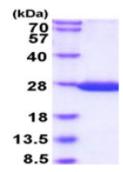
MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPK

#### **General References**

Hayes JD., et al. (1995) Crit Rev BiochemMol Biol. 30(6):445-600. Smith DB., et al. (1988) Mol Biochem Parasitol. 27(2-3):249-56.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

