

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

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

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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

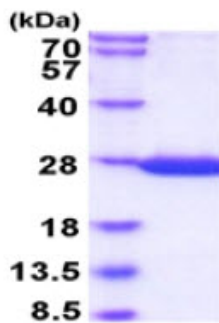
MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPPYYID GDVKLTQSMA IIRYIADKHN
MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHSVTH PDFMLYDALD
VVLVMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPK

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.