
Product Data Sheet

Product Name: GST S. Japonicum

Cat. No.: GP26157

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Glutathione S-Transferase class-mu 26 kDa isozyme, Sj26 antigen, SjGST, Glutathione S-Transferase class-mu 26 kDa isozyme Glutathione S Transferase.		
Amino Acid Sequence	MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVCLTQ SMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSR IA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAI PQID KYLKSSKYIA WPLQGWQATF GGGDHPPK		
Formulation	GST S. Japonicum protein solution (1mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Glutathione S-transferase, also known as GST, is an antioxidant enzyme. It is the primary defense mechanism from reactive oxygen in the cell. The enzyme GST reduces hydroperoxides of lipids via a Se-independent glutathione peroxidase actions. GST detoxifies peroxidation of lipids bi-products, for example 4-hydroxynonenal.

Biological Activity

Specific activity is > 30unit/mg, and is defined as the amount of enzyme that conjugate 1.0 umole of 1-chloro2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein

Caution: Product has not been fully validated for medical applications. For research use only.

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(0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GST S. Japonicum Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 218 amino acids (1-218) and having a molecular mass of 25.4 kDa.

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