

## 32-6783: GST S. Japonicum

**Application :** Functional Assay

**Alternative Name :** Glutathione S-Transferase class-mu 26 kDa isozyme, Sj26 antigen, SjGST, Glutathione S-Transferase class-mu 26 kDa isozyme Glutathione S Transferase.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** GST S. Japonicum protein solution (1mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFSLKLP EML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAI PQID KYLKSSKYIA WPLQGWQATF GGGDHPPK

### Application Note

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.