

32-6782: GST S. Japonicum, His

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.Å

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

Glutathione S-transferase or GST, stands for a large family of detoxification proteins and enzymes. Glutathione S-transferase catalyzes glutathione reaction and an acceptor molecule to create S-substituted glutathione (S stands for sulfur). By this reaction, a large variety of compounds, for example therapeutic drugs, carcinogens & oxidative stress products, transformed. Glutathione S-transferase acts as a transport protein by binding toxins and acts as a transport protein. At first, the protein was isolated from Schistosomajaponicum, nowadays it is isolated from E. coli bacteria.

GST S. Japonicum Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 244 amino acids (1-218) and having a molecular mass of 28.3 kDa. GST S. Japonicum is fused to a 26 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 95.0% 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 : MGSSHHHHHH SSGLVPRGSH MSPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSDLVPR

Application Note

Specific activity is > 10unit/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.