

Glutathione S-Transferase Active Protein | GST active protein

Recombinant Glutathione S-Transferase

CATALOG #
AAA38680

HOST
E Coli

PRODUCT SYNONYMS

Glutathione S-Transferase; Recombinant Glutathione S-Transferase; GST; Glutathione S-Transferase Recombinant; Glutathione S-transferase class-mu 28 kDa isozyme; GST 28; EC 2.5.1.18; Sj28GST; Sj28 antigen; GST active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	GST supplied in Phosphate Buffered Saline pH 7.4. Sterile Filtered clear solution.
Sequence	MSPILGYWKI KGLVQPTRL LLEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPOID KYLKSSSKYIA WPLQGWQATF GGGDHPPKSD LVPR
Sequence Length	206
Biological Activity	Specific activity is >20 units/mg. A unit is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.
Preparation and Storage	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.

ADDITIONAL INFORMATION

Related Product Information for GST active protein	Description: Recombinant Glutathione S-Transferase full length protein (1-118a.a.) expressed in E Coli, having a molecular mass of 26kDa. GST was isolated from an E Coli strain that carries the coding sequence for Schistosoma japonicum GST under the control of a T7 promoter. The GST is purified by proprietary chromatographic techniques. Introduction: Antioxidant enzyme Glutathione S- Transferase (GST) is thought to do the primary cellular defense mechanism against reactive oxygen species. GST reduces lipid hydroperoxides through its Se-independent glutathione peroxidase activity. The enzyme also detoxifies lipid peroxidation end products such as 4-hydroxynonenal (4-HNE).The soluble GST is a 26 kDa protein which occurs as a dimer in all aerobic organisms. Each monomer has two domains, one that binds GSH and is an α-structure similar to thioredoxin and the other, all helical, that binds the hydrophobic substrate. The GST -fusion protein expression system is a widely used recombinant protein expression system that allows a peptide or a regulatory protein domain to be expressed as a fusion to the C-terminus of Schistosoma japonicum GST. Fusion proteins also possess GST -enzymatic activity and can undergo dimerization similar to in vivo. The fusion protein can be purified via GST -affinity column chromatography. In most cases, the desired peptides or domains are removed from GST by applying a specific protease that recognizes and cleaves the linker between the protein domain and GST. The technique has been widely used to generate different kinds of proteins for crystallization, molecular immunology studies, the production of vaccines and studies involving protein-protein and protein-DNA interactions.
Product Categories/Family for GST active protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	121699
UniProt Accession #	P26624
Molecular Weight	23,393 Da
NCBI Official Full Name	Glutathione S-transferase class-mu 28 kDa isozyme
UniProt Protein Name	Glutathione S-transferase class-mu 28 kDa isozyme
UniProt Gene Name	GST 28
UniProt Synonym Gene Names	GST 28
UniProt Entry Name	GST28_SCHJA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-gst-active-protein/glutathione-s-transferase/38680>