GST protein, tag-free recombinant, expressed in *E. coli* cells

Catalog Number SRP5348

Storage Temperature –70 °C

Synonym: glutathione S-transferase

**Product Description**

The GST (glutathione S-transferase) family of enzymes comprises a long list of cytosolic, mitochondrial, and microsomal proteins that are used to create the so-called GST gene fusion system. These proteins are capable of multiple reactions with a multitude of substrates. The GST-tag is 220 amino acids, which is relatively large compared to other tags like the FLAG® and myc-tags that are quite small. GST can be used to purify and detect proteins of interest. In a GST gene fusion system, an expression vector consists of the gene sequence encoding the protein of interest and GST sequence alongside. After induction, the fusion proteins can be purified using affinity chromatography via its high affinity for glutathione.1

Recombinant artificial sequence GST (1-226) was expressed in *E. coli* cells and purified on a glutathione column. The gene accession number is U13850. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~25 kDa

The enzymatic activity of this product has not been determined.

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

**References**


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