

Product Specification Sheet

**Recombinant purified Bacterial GST (Fusion Protein)**

**Cat.** GST17-R      Purified, recombinant GST protein (E. coli)      **SIZE:** 100 ug  
**FORM:**  Soln       Lyophilized;

Expression of genes in E. coli or yeast or baculovirus offers a convenient system to produce large amounts of recombinant proteins that may otherwise be difficult to isolate from natural cells and tissues. Very often antibodies to these newly identified proteins are not available to study its biochemical properties, monitor protein expression, and purification. In order to circumvent this problem, short pieces of well-defined peptides (Poly-His, Flag-epitope or c-myc epitope or HA-tag) or small proteins (bacterial GST, MBP, Thioredoxin, b-Galactosidase, VSV-Glycoprotein etc) are often cloned along with the target gene. Proteins are expressed as fusion proteins. Antibodies to these fusion-tags are already available to monitor fusion protein expression and purification. Therefore, fusion-tags serve as universal tags much like secondary antibodies. Many tags have their own characteristics. Poly-His-fusion proteins (6 x His) can bind to Nickel-Sepharose or Nickel-HRP. GST-fusion proteins can bind to glutathione-Sepharose. Therefore, a high degree of purification of fusion protein can be achieved in just one affinity purification step. Purity of fusion proteins can be followed by Tag-antibodies. Very often, fusion proteins are directly injected into animals to generate antibodies. Some fusion tags can be removed later by treatment with enzymes to generate tag-free recombinant proteins.

**Source of Antigen and Antibodies**

**GST (~27 Kda) was expressed in E. coli and purified (>97%). Cat # GST17-R**, is formulated in PBS, pH 7.4 (see exact concn on the vials; approx. 0.5 mg/ml). This preparation can be used to coat the ELISA plates, used as standards for ELISA or Western or other application. Store at -20oC or below in suitable aliquots. Do not freeze and thaw.

**Recommended Usage**

Purified GST protein has been tested by ELISA (coat 1-10 ug) and test with antibodies (GST11-S, GST12-A, GST12-M etc).

For Western load 50-500 ng/lane for various anti-GST antibodies.

This product is for in vitro research use only.

**Related material available from ADI**

Catalog#	ProdDescription
GST11-S	Anti-Glutathione Transferase, GST (E. coli) antiserum # 1
GST12-C	Recombinant purified Glutathione Transferase (GST)-Protein (~27 kda) control WB +ve control
GST12-M	Monoclonal Anti-Glutathione Transferase, GST (E. coli),
GST13-A	Anti-Glutathione Transferase (GST, S. japonicum) IgG# 3
GST13-AS	Anti-Glutathione Transferase (GST, S. japonicum) IgG-Agarose (Aff matrix)
GST13-BTN	Anti-Glutathione Transferase (GST, S. japonicum) IgG-Biotin Conjugate
GST13-FITC	Anti-Glutathione Transferase (GST, S. japonicum) IgG-FITC Conjugate
GST13-HRP	Anti-Glutathione Transferase (GST, S. japonicum) IgG-HRP Conjugate
GST13-R	Purified Recombinant Glutathione Transferase-His(x6) tag (GST-His) protein
GST14-R	Purified Recombinant Glutathione Transferase-Ubiquitin fusion (GST-Ub) protein
GST15R-AS	Glutathione Transferase (GST) Protein-Agarose
GST16-BTN	Monoclonal Anti-Glutathione Transferase (GST, E. coli) IgG-Biotinylated
GST16-M	Monoclonal Anti-Glutathione Transferase (GST, E. coli)
GST17-R	Purified Recombinant Glutathione Transferase (GST) protein, native S. Japonicum (No tag)
720-100-GSG	Goat Anti-Glutathione Transferase (GST) IgG (total) ELISA Kit, 96 tests, Quantitative
720-110-GSR	Rabbit Anti-Glutathione Transferase (GST) IgG (total) ELISA Kit, 96 tests, Quantitative
720-120-GSC	Chicken Anti-Glutathione Transferase (GST) IgG (total) ELISA Kit, 96 tests, Quantitative
800-400-GST	Glutathione Transferase (GST-fusion protein) ELISA Kit, 96 tests, Quantitative
90110	GST-Fusion Protein Purification Kit (5-10 purifications; 25-50 mg protein)
GST17-R	140212A