

Recombinant Schistosoma japonicum GST-His Protein

Catalog No.: RPT0002

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Schistosoma japonicum		P08515

Tags

C-His

Synonyms

IGST 26;Sj26 antigen;SjGST

Product Information

Source	Purification
<i>E. coli</i>	>95% by SDS-PAGE.

Endotoxin

<0.1 EU/μg of the protein by LAL methAod.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Genetic engineers have used glutathione S-transferase to create the GST gene fusion system. This system is used to purify and detect proteins of interest. In a GST gene fusion system, the GST sequence is incorporated into an expression vector alongside the gene sequence encoding the protein of interest. Induction of protein expression from the vector's promoter results in expression of a fusion protein: the protein of interest fused to the GST protein. This GST-fusion protein can then be purified from cells via its high affinity for glutathione. GST is commonly used to create fusion proteins. The tag has the size of 22 amino acids (roughly 26 kDa), which, compared to other tags like the Myc- or the FLAG-tag, is quite big. However, many commercially-available sources of GST-tagged plasmids include a thrombin domain for cleavage of the GST tag during protein purification.

Basic Information

Description

Recombinant Schistosoma japonicum GST-His Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Lys218) of Schistosoma japonicum GST-His fused with 6×His tag at the C-terminus.

Bio-Activity

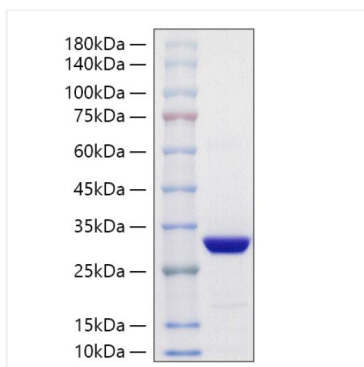
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2–8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant *Schistosoma japonicum* GST-His Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35 kDa.