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Recombinant

Background

Immunoglobulin G-binding protein G;
IgG-binding protein G; SPG

Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic Streptococci. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse. Protein G binds preferentially to the Fc portion of IgG, but can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.

Basic Information

Recombinant Streptococcus SPG/IgG-binding protein G Protein is produced by E. coli cells expression system. The target protein is expressed with sequence Leu190-Lys384 of Streptococcus SPG/IgG-binding protein G (Accession # P19909) fused with a C-His tag at the C-terminus.

Bio-Activity

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Source <i>E. coli</i>	Purification ≥ 95 % as determined by SDS- PAGE.
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Calculated MW	Observed MW
22.17 kDa	25-30 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.

Reconstitution

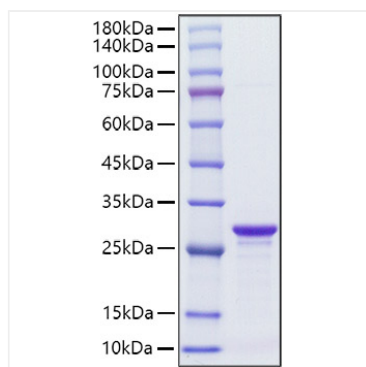
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Validation Data



Recombinant Streptococcus SPG/IgG-binding protein G Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.