



Recombinant Streptococcus Protein G (r-SPG)

Product Name: Recombinant Streptococcus Protein G (r-SPG)

Catalog Number: NRPA06S

Packing Details: 1 mg, 10 mg, 100 mg, 500 mg

Formulation: The product is lyophilized from a sterile solution of protein in 5 mM PB, pH 7.4.

Mol. Wt.: 28 kDa

Theory pI: 4.79

Resources: Escherichia coli (E. coli)

Purity: $\geq 90\%$ by SDS-PAGE analysis

Storage Condition: -20°C

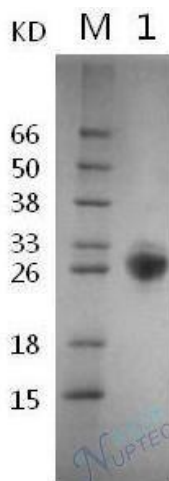
Storage Duration: 3 years

Description:

Protein G is a bacterial cell wall protein expressing at the cell surface of some group C and group G Streptococcal strains that binds the Fc region of immunoglobulin G (IgG) with high affinity. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to IgGs from guinea pig, rabbit, goat, cow, sheep, and horse. Protein G shows a broader range of binding to IgG subclasses than does staphylococcal protein A.

Some of the most important application areas for protein G are the isolation and purification or the removal of IgG from serum, the purification of monoclonal antibodies, and the isolation of immune complexes. Protein G conjugates is commonly used as affinity adsorbents to purify immunoglobulins (antibodies) and immunoglobulin subtypes from serum, hybridoma ascites, tissue culture supernatants and other biological fluids.

In addition to the Fc receptor, intact protein G has membrane spanning regions as well as specific binding sites for albumin and for the Fab region of immunoglobins. The albumin and cell surface binding domains have been eliminated from recombinant protein G to ensure the maximum specific IgG binding capacity.



M: Protein marker standard

Lane 1: r-SPG

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Notes:

It is recommended that the product is reconstituted with sterile water into a final concentration of 10 mg/ml freshly.

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