

32-4931: Recombinant Staphylococcal Protein-A 41kDa

Alternative Name : Immunoglobulin G-binding protein A,IgG-binding protein A,Staphylococcal protein A,SPA.

Description

Source : Escherichia Coli. Recombinant Staphylococcal Protein A produced in E.Coli is a non-glycosylated, Polypeptide chain containing the amino acid sequence of Staphylococcal Protein A IgG binding domains having a molecular mass of 41 kDa. The recombinant Protein A contains 6 IgG-binding regions of protein A. Cell wall binding region, albumin binding region and other non-specific binding regions that have been eliminated from the recombinant Protein-A to ensure the maximum specific IgG binding. Recombinant Staphylococcal Protein A is purified by proprietary chromatographic techniques. Protein A is a cell wall protein deriving from Staphylococcus aureus which exhibits unique binding properties for IgG from a variety of mammalian species and for some IgM and IgA as well. It binds with the Fc region of immunoglobulins through interaction with the heavy chain. It couples to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. Recombinant Protein A was developed to increase the specificity of the molecule for IgG and is widely used both in research and bioprocessing. The recombinant protein A is produced by expressing a modified protein A gene in E.coli. A specific purification process with strict quality control was taken to get the recombinant protein A with the purity of more than 98% , no human IgG affinity step is used during validated fermentation and purification and devoid of bacterial contaminant found normally in native Protein A. (Free of Stap

Product Info

Amount :	100 mg
Purification :	of more than 98% , no human IgG affinity step is used during validated fermentation and purification and devoid of bacterial contaminant found normally in native Protein A. (Free of Stap
Content :	The protein was lyophilized from a concentrated (1mg/ml) solution containing no additives.
Storage condition :	Protein-A should be stored at all times at 4°C.

Application Note

7mg human IgG/mg protein-A.

