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Protein A, 41kDa

Catalog #:PRPS-781

For research use only.

Description: Recombinant Staphylococcal Protein A produced in E.Coli is a non-glycosylated, Polypeptide chain contaning 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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 98.0% as determined by SDS-PAGE & RP-HPLC.

Formulation:
The protein was lyophilized from a concentrated (1mg/ml) solution containing no additives.

Stability:
Protein-A should be stored at all times at 4°C.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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 throμgh 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

Biological Activity:
7mg human IgG/mg protein-A.

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