
Product Data Sheet

Product Name: Protein A, 41kDa

Cat. No.: GP24669

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Immunoglobulin G-binding protein A; IgG-binding protein A; Staphylococcal protein A; SPA.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution containing no additives.		

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 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

Biological Activity

7mg human IgG/mg protein-A.

Stability

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

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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