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## Product Data Sheet

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Product Name: SPA 33.4kDa  
 Cat. No.: GP24671  
 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.		
Amino Acid Sequence	<p>NAAQHDEAAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK          LNSQAPKAD AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS          QSTNVLGEAK KLNESQAPKA DNNFNKEQQN AFYEILNMPN LNEEQRNGFI          QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF YEILHLPNLN          EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE          ILHLPNLTEE QRNGFIQSLK DDPSVSKEIL AEAKKLNDAAQ APKEED.</p>		
Solubility	It is recommended to reconstitute the lyophilized SPA in sterile 18MΩ-cm H <sub>2</sub> O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	SPA protein was lyophilized with no additives.		

### Introduction

Protein A is a cell wall component produced by several strains of Staphylococcus aureus. The recombinant Protein A is genetically engineered protein and holds 5 IgG-binding regions of protein A. Recombinant Protein A functions basically the same as native Protein A and is perfect for purification of polyclonal or monoclonal IgG antibodies. Protein A binds to human IgG1, IgG2 and IgG4, mouse IgG2a, IgG2b and IgG3 and rat IgG2c. Protein A also binds to total IgG from rabbit, pig, dog, cat, and guinea pig.

### Stability

Lyophilized SPA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution SPA should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a

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

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carrier protein (0.1% HSA or BSA).

### Background

SPA Recombinant produced in E.Coli is a homodimeric non-glycosylated polypeptide chains comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 296 amino acids and having a molecular mass of 33.4kDa containing little or no carbohydrate. Cell wall binding region, cell membrane binding region and albumin binding region were removed to ensure the highest specific IgG binding.

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