



6352 CORTE DEL ABETO, STE B  
CARLSBAD, CA 92011 USA  
01.858.642.1988 • WWW.ATSBIO.COM

### Staphylococcal Protein A Recombinant RECOMBINANT PROTEIN

**Catalog Number:** PRP-648  
**Quantity:** 10 milligrams, 100 milligrams, 1 gram  
**Format:** Sterile-filtered clear colorless solution  
**Host:** *E. coli*

#### **Background:**

Protein A is a cell-wall protein derived from *Staphylococcus aureus* which has unique binding properties to a variety of mammalian species of IgG. It can also bind some IgM and IgA. Protein A binds the Fc region of immunoglobulins through interaction with the heavy chain. It can be coupled to a variety of reporter molecules, such as fluorescent dyes, enzyme markers, biotin, colloidal gold, and radioactive iodine without affecting the antibody binding site. The recombinant version of protein A was developed to increase the specificity for IgG.

#### **Specificity and Preparation:**

The recombinant protein A is produced by expressing a modified protein A gene in *E. coli*. It is a non-glycosylated, polypeptide chain having a molecular mass of 45 kDa. The protein solution contains no additives. Purity is greater than 98% as determined by RP-HPLC. Human IgG is not used in the purification of protein A. This protein A does not contain endotoxin that is frequently found in native protein A.

#### **Usage and Storage:**

Activity is reported at greater than 95% binding to human IgG.  
Store at -20°C. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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