

## 32-4935: Recombinant Staphylococcal Protein-A Cys His Tag

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

### Description

Source : Escherichia Coli. SPA-Cys His Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain with 6X His-tag and a Cys on C-terminus. SPA-Cys His is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 307 amino acids and having a molecular mass of 34.8kDa 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. 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.

### Product Info

**Amount :** 100 mg

**Purification :** Greater than 96.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Content :** SPA protein was lyophilized with no additives.

**Storage condition :** 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 carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid :** MNAAQHDEAQ QNAFYQVLNM PNLNADQRNG FIQSLKDDPS QSANVLGAEQ KLNDSQAPKA  
DAQQNNFNKD QQSIFYEILN MPNLNEAQRN GFISLQKDDP SQSTNVLGEA KKLNESQAPK  
ADNNFNKEQQ NAFYEILNMP NLNEEQRNGF IQSLKDDPSQ SANLLSEAKK LNESQAPKAD NKFNKEQQNA  
FYEILHLPNL NEEQRNGFIQ SLKDDPSQSA NLLAEAKKLN DAQAPKADNK FNKEQQNAFY EILHLPNLTE  
EQRNGFIQSL KDDPSVSKEI LAEAKKLNDA QAPKEEDSLE HHHHHHC

### Application Note

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.

