

# SPA-Cys Recombinant Protein



RPPB4791

## Product Information Protein Information

### Product SKU:

RPPB4791

### Accession:

P38507

### Host:

Escherichia Coli.

### Protein description:

SPA-Cys Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain with a Cys on C-terminus. SPA-Cys is comprised of 5 IgG-binding domains E-D-A-B-C aligned in series containing 297 amino acids and having a molecular mass of 33.5kDa 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.

### Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Synonyms:

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

### Formulation:

SPA protein was lyophilized with no additives.

### Purity:

Greater than 98.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.

### 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.

### 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 carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Amino Acid Sequence:

NAAQHDEAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK LND SQAPKAD  
AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS QSTNVLGEAK KLNESQAPKA DNNFNKEQQN  
AFYEILNMPN LNEEQRNGFI QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF YEILHLPNLN  
EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE ILHLPNLTEE QRNGFIQSLK  
DDPSVSKEIL AEAKKLND AQAPKEEDC